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Quality and engineering support would be meaningless if Mill-Max could not deliver your components on schedule. We work hard to ensure that the integrity of both your products and your schedule will never be compromised.

Mill-Max maintains the largest inventory of stock products in North America to ensure our ability to fill orders rapidly and consistently. The expansive scale of our manufacturing operations ensures that we can meet the requirements of custom component runs quickly, efficiently and on time.

“We found knowledgeable people with a good understanding of quality control – if we have a problem they respond right away.”

–Senior Quality Engineer, Energy & Water Metering Equipment

MAXIMUM SERVICE

Call on Mill-Max and you will find that we will do everything possible to make your job easier. Our newly designed website features the most robust and easy-to-use product search engine in the industry. Responsive customer service and technical support are company hallmarks, and we specialize in quick turnaround quotes, one-hour order confirmation, on-time delivery, free samples and fast prototyping.

Put Mill-Max to the test and see how hard we will work to satisfy your needs. Mill-Max products are sold directly through our sales representative organizations as well as a network of 25 authorized distributors in the U.S. and throughout the world. Maximum satisfaction: it is both our policy and our promise.

“When they make a promise, they keep that promise... when they say they will deliver, I know I can count on it.”

–Senior Purchasing Specialist, CATV/Broadband Equipment Manufacturer



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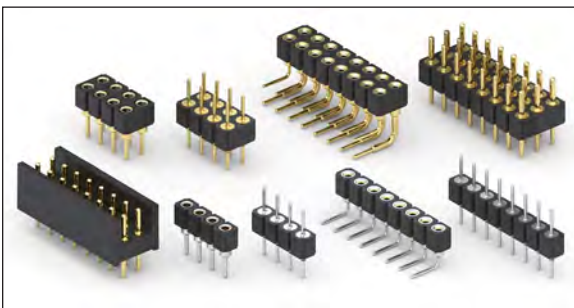
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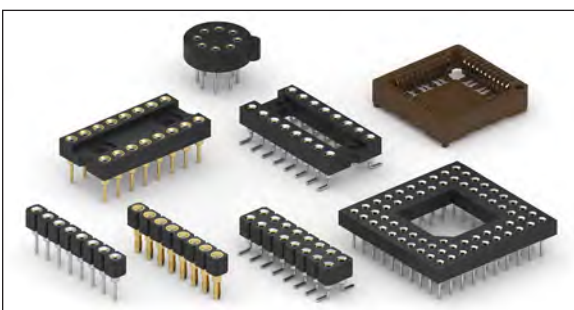
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SPRING-LOADED CONNECTORS





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MILL-MAX SPRING-LOADED CONNECTORS ARE IDEAL FOR A WIDE RANGE OF APPLICATIONS, from portable data acquisition units and mobile communication to medical and military equipment applications. Their unique design can be the perfect solution for many situations where establishing an electrical path between mating points is a challenge, including problematic vibratory environments.

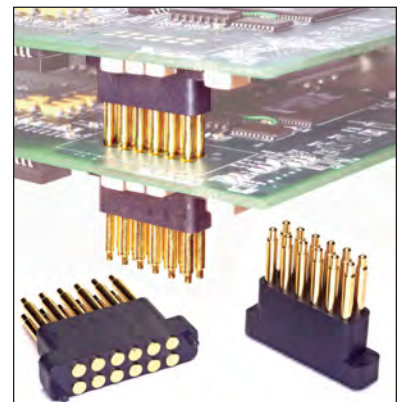
When strategically placed within an assembly and utilized correctly (shielded from over compression and direct side load forces,) spring-loaded connectors provide a reliable connection exceeding a million cycles.

SOME TYPICAL APPLICATIONS INCLUDE:

- The internal battery connection in portable instruments, or as the external battery connection for charging these instruments (docking stations).
- As a method for stacking printed circuit boards in an assembly. Utilizing spring pin connectors is a convenient approach to creating mezzanine-tiered board modules that can be assembled and disassembled quickly.
- Blind-mating applications: The spring pin piston need only make contact with its mating surface. This is typically a land or pad that is larger than the plunger diameter. In situations where the assembly process doesn't allow for visibility, spring pins are the optimum choice.

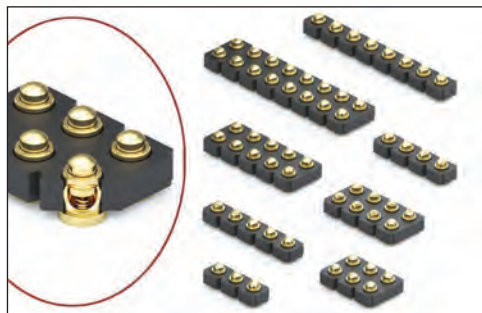
MILL-MAX SPRING-LOADED CONNECTORS CAN MATE TO THE FOLLOWING SURFACES:

- A conductive input/output pad found on the instrument pack itself.
- A gold-plated land on a circuit board. A hard gold over nickel-plated surface is recommended for the mating surface. This is the same as would be used for the printed circuit fingers associated with card edge connectors.
- Individual Mill-Max gold-plated nail head pins which can be soldered to the mating circuit board to serve as targets.
- Mill-Max Target Connectors which provide a large, flat gold-plated circuit path to the board.



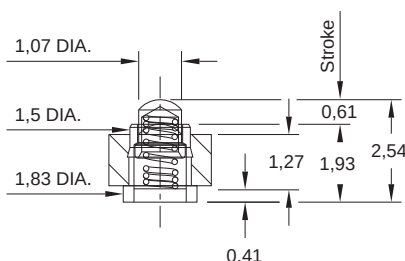
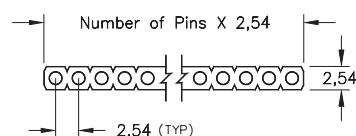
SPRING-LOADED CONNECTORS

SERIES 815 & 817 • 2,54 GRID SURFACE MOUNT, ULTRA LOW PROFILE • SINGLE AND DOUBLE ROW STRIPS

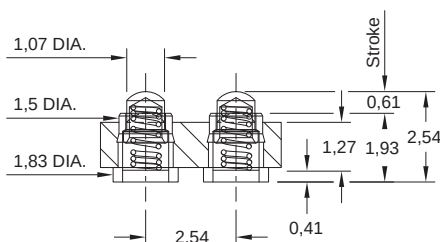
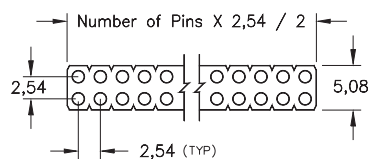


- Modular contacts for use on 2,54 grid, available in a height of 2,54, supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure a 1,000,000 cycle life durability
- Pistons have a 0,3 mid. stroke and a 0,61 max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- 815 & 817 series contact strips are designed for manual placement onto a 2,08 Ø solder pad prior to reflow soldering

SINGLE ROW Series 815



DOUBLE ROW Series 817



ORDERING INFORMATION

Single Row Series 815

815-22-0XX-30-001101

Specify number of contacts 01-32

Double Row Series 817

817-22-0XX-30-001101

Specify number of contacts 04-72

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51µm gold over 2,54µm nickel
Spring: Beryllium copper-plated 0,25µm gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
Spring force @ mid stroke (0,3): 60 grams
Durability: 1,000,000 cycles
Coplanarity: 0,13 (Single Row up to 10 pins; Double Row up to 20 pins),
For higher pin counts, contact Technical Support

Electrical:

Voltage rating: 100Vrms/150Vdc
Current rating: 2A (continuous), 3A (peak) per contact
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.
Dielectric strength: 700Vrms min.
Capacitance: 1pF max.

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2011/65/EU



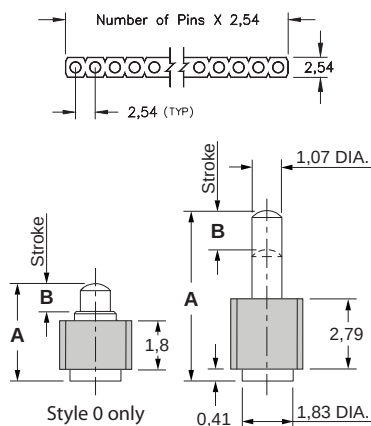
SPRING-LOADED CONNECTORS

SERIES 811 & 813 • 2,54 GRID SURFACE MOUNT, LOW PROFILE • SINGLE AND DOUBLE ROW STRIPS

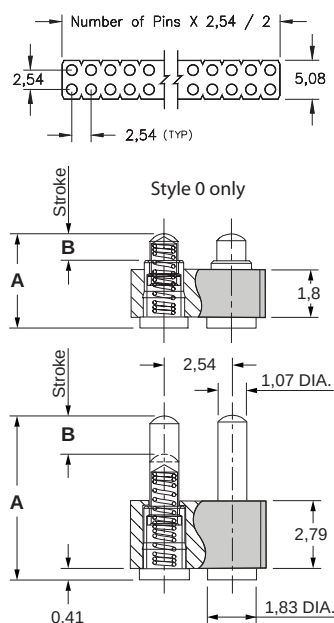


- Modular contacts for use on 2,54 grid, available in five heights from 3,48 to 5,99, supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure a 1,000,000 cycle life durability
- Pistons have a long stroke relative to the low profile of the assembly
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- Both 811 & 813 series, contact styles 1 through 4, are available on 32mm wide carrier tape and fitted with vacuum pick-up clips for automated pick and place assembly. Tape and Reel packaging per EIA-481. See page 12 for strip lengths available and ordering information

SINGLE ROW Series 811



DOUBLE ROW Series 813



ORDERING INFORMATION

Single Row Series 811

811-22-0XX-30-00X101
 Specify number of contacts 01-64 Specify contact style 0-4

Double Row Series 813

813-22-0XX-30-00X101
 Specify number of contacts 04-72 Specify contact style 0-4
 For 811 and 813 Tape & Reel packaging, see page 12

CONTACT STYLE	INITIAL HEIGHT A	MAX. STROKE B
0	3,48	0,99
1	4,50	1,14
2	5,0	1,39
3	5,51	1,39
4	5,99	1,39

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51µm gold over 2,54µm nickel
 Spring: Beryllium copper-plated 0,25µm gold
 Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height (A): 25 grams
 Spring force @ mid stroke (B/2): 60 grams
 Durability: 1,000,000 cycles
 Coplanarity: 0,13 (Single Row up to 10 pins; Double Row up to 20 pins),
 For higher pin counts, contact Technical Support

Electrical:

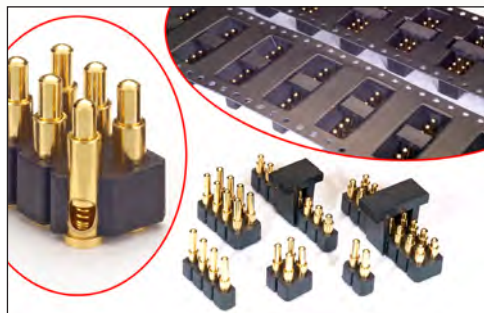
Voltage rating: 100Vrms/150Vdc
 Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20mΩ max.
 Insulation resistance: 10,000MΩ min.
 Dielectric strength: 700Vrms min.
 Capacitance: 1pF max.

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2011/65/EU



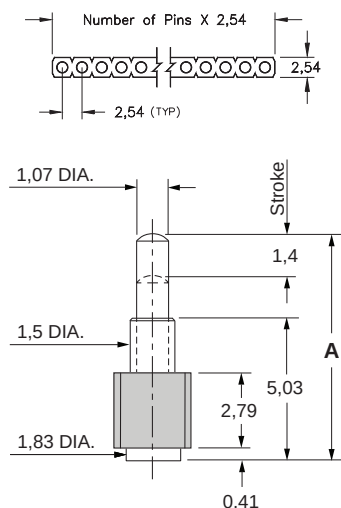
SPRING-LOADED CONNECTORS

SERIES 812 & 814 • 2,54 GRID SURFACE MOUNT, MID PROFILE • SINGLE AND DOUBLE ROW STRIPS

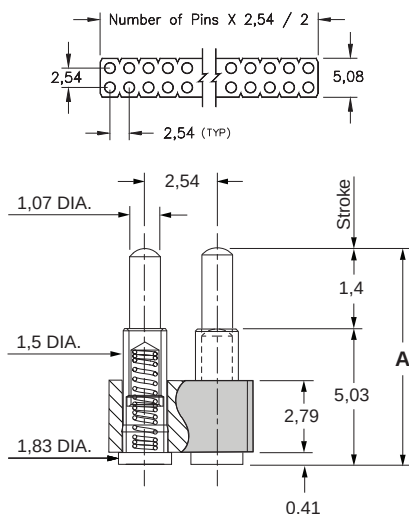


- Modular contacts for use on 2,54 grid, available in ten heights from 6,48 to 10,92, supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure a 1,000,000 cycle life durability
- Extended body provides greater bearing surface for increased strength & plunger protection
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- Both 812 & 814 series, contact styles 0 through 9, are available on 32mm or 44mm wide carrier tape and fitted with vacuum pick-up clips for automated pick and place assembly. Tape and Reel packaging per EIA-481. See page 12 for strip lengths available and ordering information

SINGLE ROW Series 812



DOUBLE ROW Series 814



ORDERING INFORMATION

Single Row Series 812

812-22-0XX-30-00X101

Specify number of contacts 02-64

Specify contact style 0-9

Double Row Series 814

814-22-0XX-30-00X101

Specify number of contacts 04-72

Specify contact style 0-9

For 812 and 814 Tape & Reel packaging, see page 12

CONTACT STYLE	INITIAL HEIGHT A	CONTACT STYLE	INITIAL HEIGHT A
0	6,48	5	8,89
1	6,99	6	9,4
2	7,49	7	9,91
3	8,0	8	10,41
4	8,51	9	10,92

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51µm gold over 2,54µm nickel
 Spring: Beryllium copper-plated 10µm gold
 Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height (A): 25 grams
 Spring force @ mid stroke (0,7): 60 grams
 Durability: 1,000,000 cycles
 Coplanarity: 0,13 (Single Row up to 10 pins; Double Row up to 20 pins),
 For higher pin counts, contact Technical Support

Electrical:

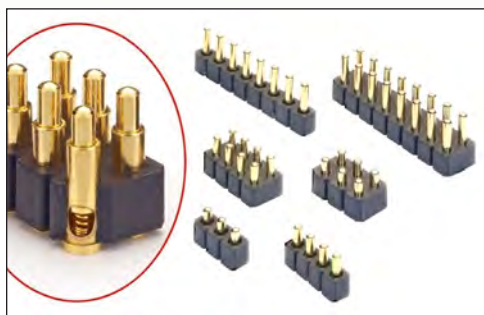
Voltage rating: 100Vrms/150Vdc
 Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20mΩ max.
 Insulation resistance: 10,000MΩ min.
 Dielectric strength: 700Vrms min.
 Capacitance: 1pF max.

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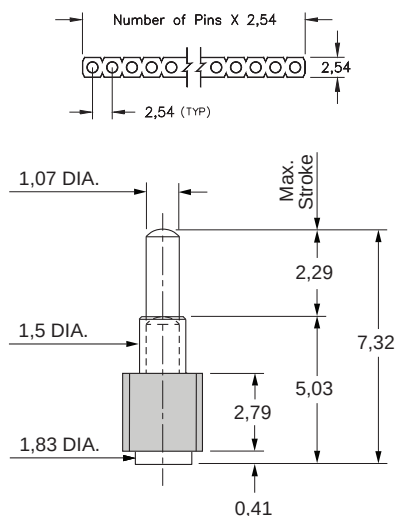
SPRING-LOADED CONNECTORS

SERIES 819 & 820 • 2,54 GRID SURFACE MOUNT, LONG STROKE • SINGLE AND DOUBLE ROW STRIPS

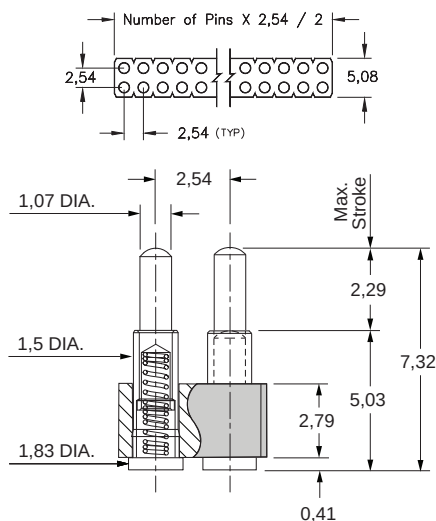


- Modular contacts for use on 2,54 grid, available in a height of 7,32, supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure a 1,000,000 cycle life durability
- Pistons have a 1,14 mid. stroke and a 2,29 max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- Both 819 & 820 series contact strips are designed for placement onto a Ø 2,08 solder pad prior to reflow soldering
- Tape and Reel packaging available, contact Technical Support

SINGLE ROW Series 819



DOUBLE ROW Series 820



ORDERING INFORMATION

Single Row Series 819

819-22-0XX-30-001101

Specify number of contacts 01-64

Double Row Series 820

820-22-0XX-30-001101

Specify number of contacts 04-72

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51 µm gold over 0,25 µm nickel
Spring: Beryllium copper-plated 0,25 µm gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
Spring force @ mid stroke (1,14): 60 grams
Durability: 1,000,000 cycles

Electrical:

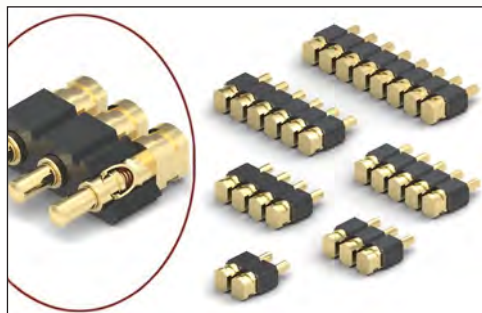
Voltage rating: 100Vrms/150Vdc
Current rating: 2A (continuous), 3A (peak) per contact
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.
Dielectric strength: 700Vrms min.
Capacitance: 1pF max.

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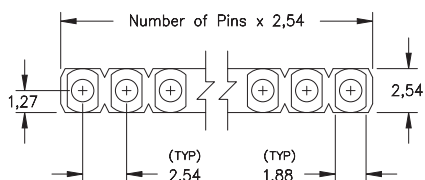
SPRING-LOADED CONNECTORS

SERIES 810 • 2,54 GRID HORIZONTAL SURFACE MOUNT • SINGLE ROW STRIPS

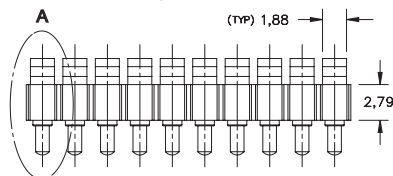


- Modular contacts for use on 2,54 grid, supplied in single row contact strips. Piston action is parallel to the board surface
- Ideal for daisy chaining of P.C.B's when mated with right angle target connectors (series 399...10-008) or for mating boards in a perpendicular orientation
- Precision-machined piston / base and gold-plated components assure a 1,000,000 cycle life durability
- Pistons have a 1,14 mid. stroke & 2,29 max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- 810 series contact strips are designed for manual placement onto solder pads

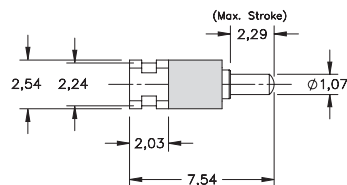
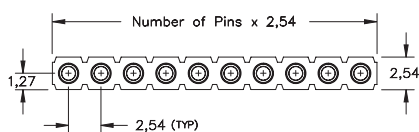
SINGLE ROW Series 810



TOP VIEW

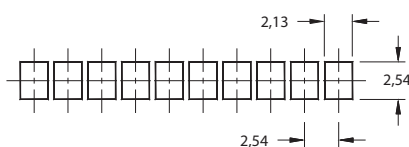


FRONT VIEW



DETAIL 'A'

Suggested P.C.B. FOOTPRINT



Coplanarity 0,13. For Pin Counts > 10 positions consult Technical Support

ORDERING INFORMATION

Single Row Series 810

810-22-0XX-40-001101

Specify number of contacts 01-10

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51µm gold over 2,54µm nickel
Spring: Beryllium copper-plated 0,25µm gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
Spring force @ mid stroke (1,14): 60 grams
Durability: 1,000,000 cycles

Electrical:

Voltage rating: 100Vrms/150Vdc
Current rating: 2A (continuous), 3A (peak) per contact
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.
Dielectric strength: 700Vrms min.
Capacitance: 1pF max.

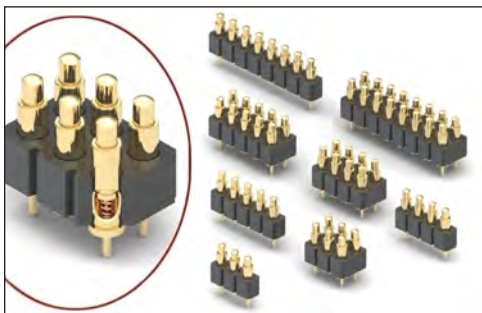
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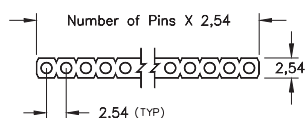
SPRING-LOADED CONNECTORS

SERIES 812 & 814 • 2,54 GRID SURFACE MOUNT WITH ALIGNMENT PINS • SINGLE AND DOUBLE ROW STRIPS

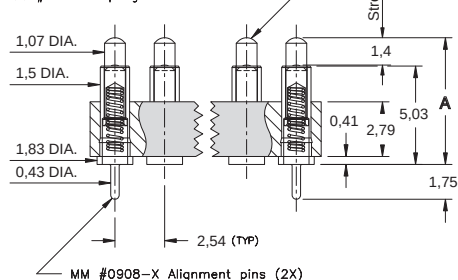


- Modular contacts for use on 2,54 grid, available in ten heights from 6,48 to 10,92, supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure a 1,000,000 cycle life durability
- Pistons have a 0,7 mid stroke & 1,4 max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- Both 812 & 814 series contact strips are designed for manual placement, $\varnothing 0,56 \pm 0,08$ plated through-holes in the circuit board are required for the alignment pins prior to intrusive reflow soldering

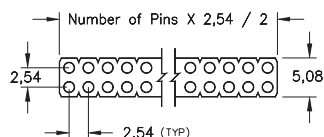
SINGLE ROW Series 812



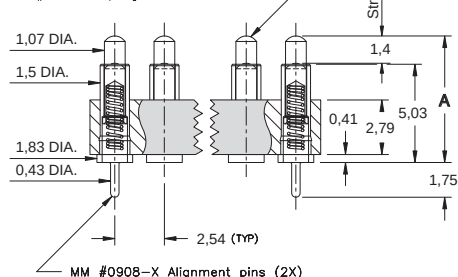
MM #0907-X Spring Loaded Connector



DOUBLE ROW Series 814



MM #0907-X Spring Loaded Connector



ORDERING INFORMATION

Single Row Series 812...01X101

812-22-0XX-30-01X101

Specify number of contacts 03-64

Specify contact style 0-9

Double Row Series 814...01X101

814-22-0XX-30-01X101

Specify number of contacts 06-72

Specify contact style 0-9

CONTACT STYLE	INITIAL HEIGHT A	CONTACT STYLE	INITIAL HEIGHT A
0	6,48	5	8,89
1	6,99	6	9,4
2	7,49	7	9,91
3	8,0	8	10,41
4	8,51	9	10,92

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51 μ m gold over 2,54 μ m nickel
 Spring: Beryllium copper-plated 0,25 μ m gold
 Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height (A): 25 grams
 Spring force @ mid stroke (0,7): 60 grams
 Durability: 1,000,000 cycles

Electrical:

Voltage rating: 100Vrms/150Vdc
 Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20m Ω max.
 Insulation resistance: 10,000M Ω min.
 Dielectric strength: 700Vrms min.
 Capacitance: 1pF max.

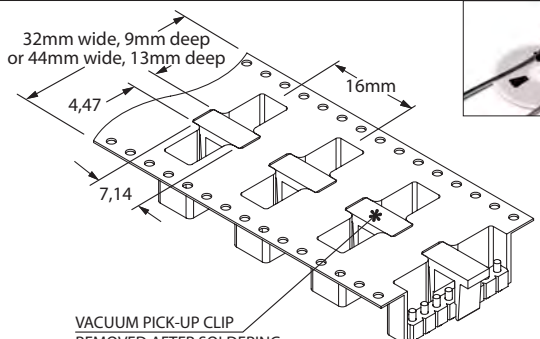
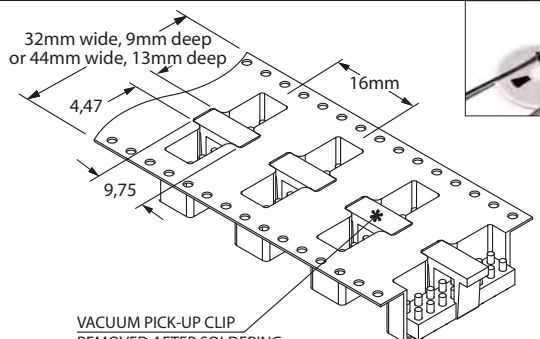
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SPRING-LOADED CONNECTORS

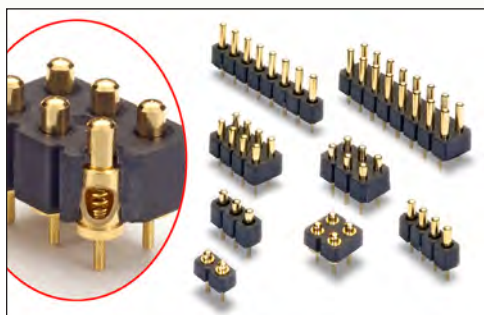
SERIES 811, 812, 813, 814 • 2,54 GRID SURFACE MOUNT • CARRIER TAPE AND PACKAGING

Ordering Information for Series 811/812/813/814 in Carrier Tape

Single Row Series 811	Double Row Series 813
811-22-0XX-30-00X191 Specify contact style 0-4 Specify number of contacts 02-08 (32mm wide tape, 400 parts per 330mm reel)	813-22-0XX-30-00X191 Specify contact style 0-4 Specify number of contacts 04-16 (32mm wide tape, 400 parts per 330mm reel)
Single Row Series 811	Double Row Series 813
811-22-0XX-30-00X191 Specify contact style 1-4 Specify number of contacts 09-12 (44mm wide tape, 200 parts per 330mm reel)	813-22-0XX-30-00X191 Specify contact style 1-4 Specify number of contacts 18-24 (44mm wide tape, 200 parts per 330mm reel)
Single Row Series 812	Double Row Series 814
812-22-0XX-30-00X191 Specify contact style 0-2 Specify number of contacts 02-08 (32mm wide tape, 400 parts per 330mm reel)	814-22-0XX-30-00X191 Specify contact style 0-2 Specify number of contacts 04-16 (32mm wide tape, 400 parts per 330mm reel)
Single Row Series 812	Double Row Series 814
812-22-0XX-30-00X191 Specify contact style 0-2 Specify number of contacts 09-12 (44mm wide tape, 200 parts per 330mm reel)	814-22-0XX-30-00X191 Specify contact style 0-2 Specify number of contacts 18-24 (44mm wide tape, 200 parts per 330mm reel)
Single Row Series 812	Double Row Series 814
812-22-0XX-30-00X191 Specify contact style 3-9 Specify number of contacts 02-12 (44mm wide tape, 200 parts per 330mm reel)	814-22-0XX-30-00X191 Specify contact style 3-9 Specify number of contacts 04-24 (44mm wide tape, 200 parts per 330mm reel)
	

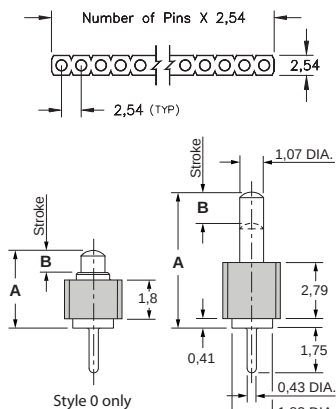
SPRING-LOADED CONNECTORS

SERIES 821 & 823 • 2,54 GRID THROUGH-HOLE MOUNT • SINGLE AND DOUBLE ROW STRIPS

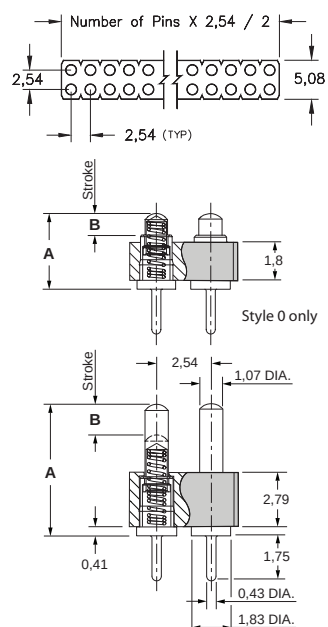


- Modular contacts for use on 2,54 grid, available in five heights from 3,48 to 5,99, supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure a 1,000,000 cycle life durability
- Pistons have a long stroke relative to the low profile of the assembly
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- Both 821 & 823 series contact strips are designed for manual placement into $\varnothing 0,56 \pm 0,08$ plated through-holes in the circuit board prior to hand, wave or reflow soldering

SINGLE ROW Series 821



DOUBLE ROW Series 823



ORDERING INFORMATION

Single Row Series 821

821-22-0XX-10-00X101
Specify number of contacts 02-64 Specify contact style 0-4

Double Row Series 823

823-22-0XX-10-00X101
Specify number of contacts 04-72 Specify contact style 0-4

CONTACT STYLE	INITIAL HEIGHT A	MAX. STROKE B
0	3,48	0,99
1	4,50	1,14
2	5,0	1,39
3	5,51	1,39
4	5,99	1,39

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51 μ m gold over 2,54 μ m nickel
Spring: Beryllium copper-plated 0,25 μ m gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height (A): 25 grams
Spring force @ mid stroke (B/2): 60 grams
Durability: 1,000,000 cycles

Electrical:

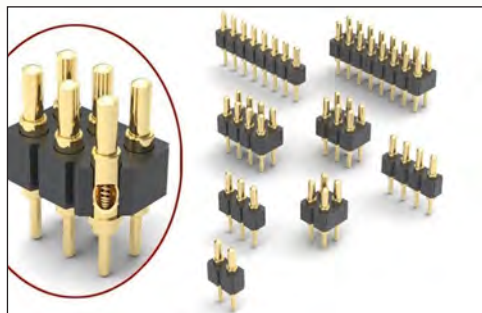
Voltage rating: 100Vrms/150Vdc
Current rating: 2A (continuous), 3A (peak) per contact
Contact resistance: 20m Ω max.
Insulation resistance: 10,000M Ω min.
Dielectric strength: 700Vrms min.
Capacitance: 1pF max.

RoHS-2
2011/65/EU



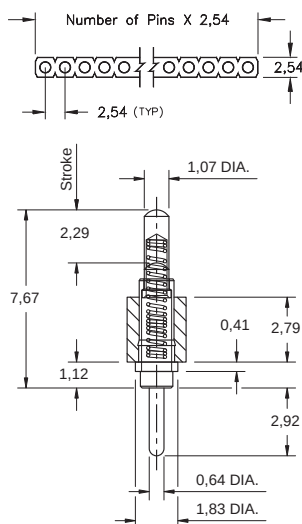
SPRING-LOADED CONNECTORS

SERIES 825 & 827 • 2,54 GRID THROUGH-HOLE MOUNT, LONG STROKE • SINGLE AND DOUBLE ROW STRIPS

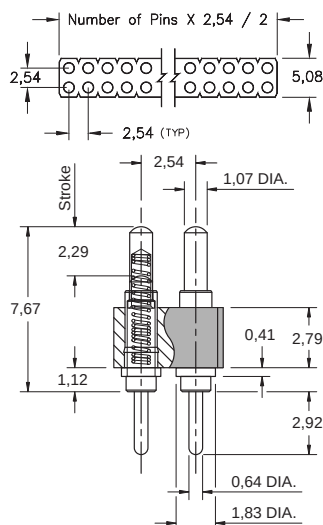


- Modular contacts for use on 2,54 grid, available in a height of 7,67, supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure a 1,000,000 cycle life durability
- Pistons have a 1,14 mid. stroke and a 2,29 max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- Both 825 & 827 series contact strips are designed for manual placement into $\varnothing 0,76 \pm 0,08$ plated through-holes in the circuit board prior to hand, wave or reflow soldering

SINGLE ROW Series 825



DOUBLE ROW Series 827



ORDERING INFORMATION

Single Row Series 825

825-22-0XX-10-001101

Specify number of contacts 02-64

Double Row Series 827

827-22-0XX-10-001101

Specify number of contacts 04-72

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51 μ m gold over 2,54 μ m nickel
Spring: Beryllium copper-plated 0,25 μ m gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
Spring force @ mid stroke (1,14): 60 grams
Durability: 1,000,000 cycles

Electrical:

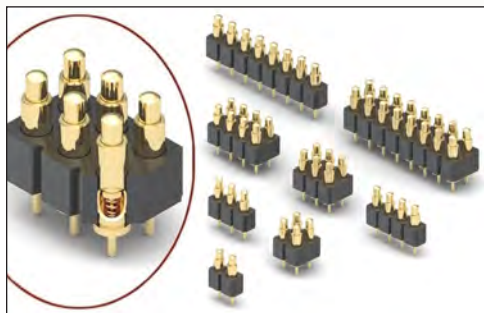
Voltage rating: 100Vrms/150Vdc
Current rating: 2A (continuous), 3A (peak) per contact
Contact resistance: 20m Ω max.
Insulation resistance: 10,000M Ω min.
Dielectric strength: 700Vrms min.
Capacitance: 1pF max.

RoHS - 2
2011/65/EU



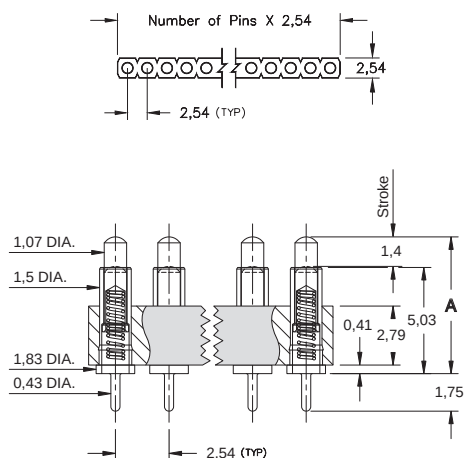
SPRING-LOADED CONNECTORS

SERIES 816 & 818 • 2,54 GRID THROUGH-HOLE MOUNT, MID PROFILE • SINGLE AND DOUBLE ROW STRIPS



- Modular contacts for use on 2,54 grid, available in ten heights from 6,48 to 10,92, supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure a 1,000,000 cycle life durability
- Pistons have a 0,7 mid stroke & 1,4 max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- Both 816 & 818 series contact strips are designed for manual placement into $\varnothing 0,58 \pm 0,08$ plated through-holes in the circuit board prior to intrusive reflow soldering

SINGLE ROW Series 816...00X101



ORDERING INFORMATION

Single Row Series 816...00X101

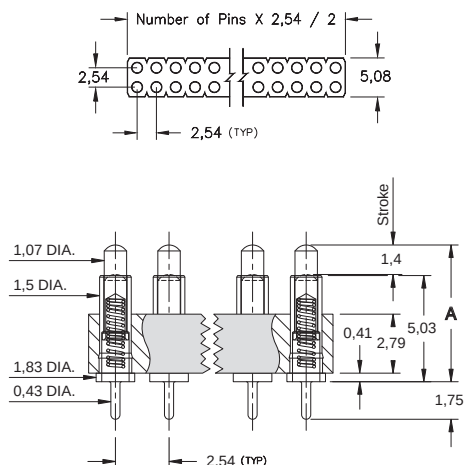
816-22-0XX-10-00X101
Specify number of contacts 02-64 Specify contact style 0-9

Double Row Series 818...00X101

818-22-0XX-10-00X101
Specify number of contacts 04-72 Specify contact style 0-9

CONTACT STYLE	INITIAL HEIGHT A	CONTACT STYLE	INITIAL HEIGHT A
0	6,48	5	8,89
1	6,99	6	9,4
2	7,49	7	9,91
3	8,0	8	10,41
4	8,51	9	10,92

DOUBLE ROW Series 818...00X101



Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51 μ m, gold over 2,54 μ m nickel
Spring: Beryllium copper-plated 0,25 μ m gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height (A): 25 grams
Spring force @ mid stroke (0,7): 60 grams
Durability: 1,000,000 cycles

Electrical:

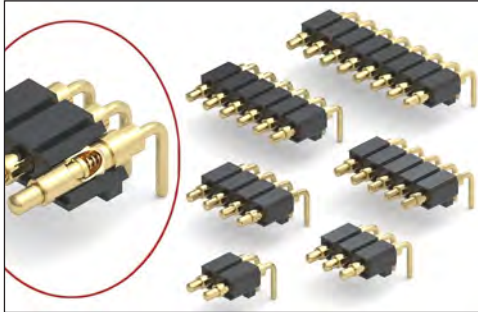
Voltage rating: 100Vrms/150Vdc
Current rating: 2A (continuous), 3A (peak) per contact
Contact resistance: 20m Ω max.
Insulation resistance: 10,000M Ω min.
Dielectric strength: 700Vrms min.
Capacitance: 1pF max.

RoHS-2
2011/65/EU



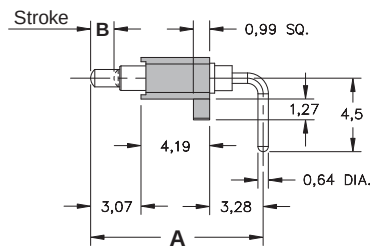
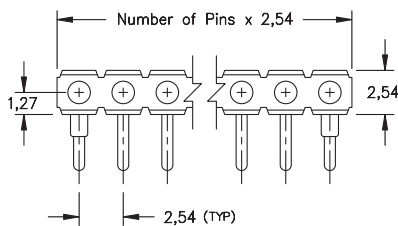
SPRING-LOADED CONNECTORS

SERIES 829 • 2,54 GRID RIGHT ANGLE MOUNT • SINGLE ROW STRIPS

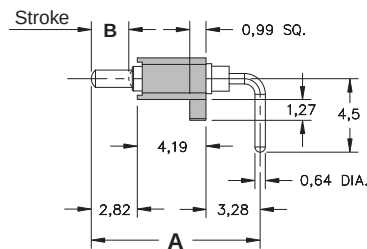


- Modular contacts for use on 2,54 grid. Supplied in single row strips with mounting pegs for support
- Precision-machined piston / base and gold-plated components assure a 1,000,000 cycle life durability
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for wave and reflow processes
- 829 series contact strips are designed for manual placement into $\varnothing 0,81 \pm 0,08$ plated through-holes in the circuit board prior to wave or reflow soldering

SINGLE ROW Series 829

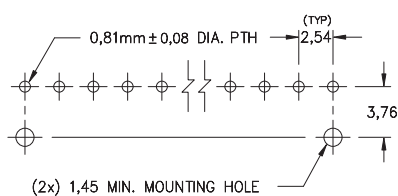


Contact style 1 only



Contact style 2 only

Suggested P.C.B Footprint



ORDERING INFORMATION

Single Row Series 829

829-22-0XX-20-00X101

Specify number of contacts 01-20

Specify contact style 1 or 2

CONTACT STYLE	INITIAL LENGTH A	MAX. STROKE B
1	10,54	1,4
2	10,31	2,3

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51 μ m gold over 2,54 μ m nickel
 Spring: Beryllium copper-plated 0,25 μ m gold
 Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial length (A): 25 grams
 Spring force @ mid stroke (B/2): 60 grams
 Durability: 1,000,000 cycles

Electrical:

Voltage rating: 100Vrms/150Vdc
 Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20m Ω max.
 Insulation resistance: 10,000M Ω min.
 Dielectric strength: 700Vrms min.
 Capacitance: 1pF max.

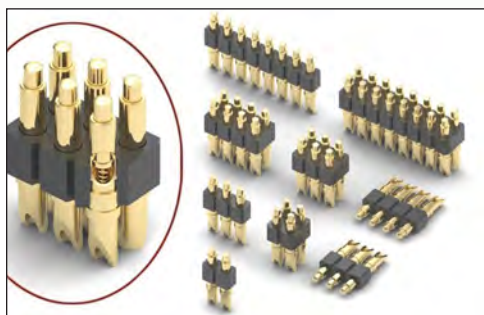
RoHS - 2
2011/65/EU



Mill-Max Mfg. Corp. • 190 Pine Hollow Road, P.O. Box 300, Oyster Bay, NY 11771 • 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com

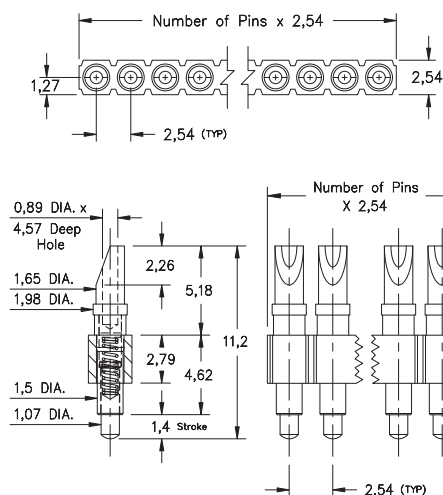
SPRING-LOADED CONNECTORS

SERIES 824 & 826 • 2,54 GRID SOLDERCUP HEADER • SINGLE AND DOUBLE ROW STRIPS

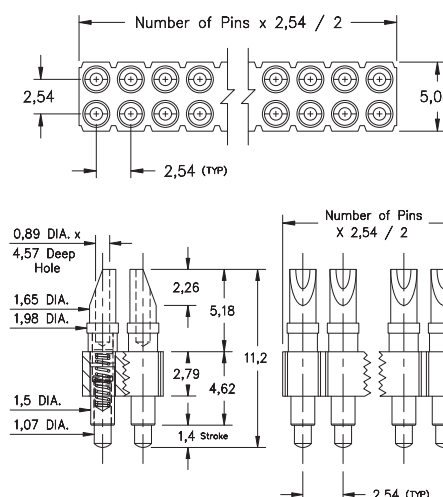


- Modular contacts for use on 2,54 grid, supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure a 1,000,000 cycle life durability
- Pistons have a 0,7 mid. stroke and a 1,4 max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- Insulators are high temperature thermoplastic
- Both 824 & 826 series strips have spring pins with wire termination soldercups. The soldercups are aligned to provide easy access for soldering up to size 22 AWG wires

SINGLE ROW Series 824



DOUBLE ROW Series 826



ORDERING INFORMATION

Single Row Series 824

824-22-0XX-00-001000

Specify number of contacts 01-64

Double Row Series 826

826-22-0XX-00-001000

Specify number of contacts 04-72

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51 μ m gold over 2,54 μ m nickel
 Spring: Beryllium copper-plated 0,25 μ m gold
 Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
 Spring force @ mid stroke (0,7): 60 grams
 Durability: 1,000,000 cycles

Electrical:

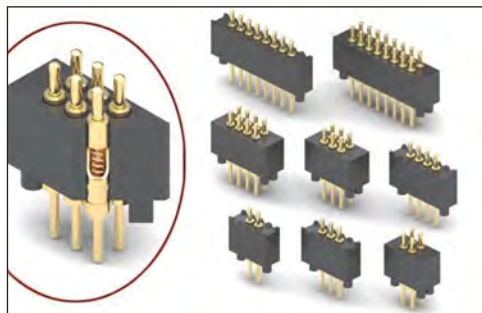
Voltage rating: 100Vrms/150Vdc
 Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20m Ω max.
 Insulation resistance: 10,000M Ω min.
 Dielectric strength: 700Vrms min.
 Capacitance: 1pF max.

RoHS-2
2011/65/EU



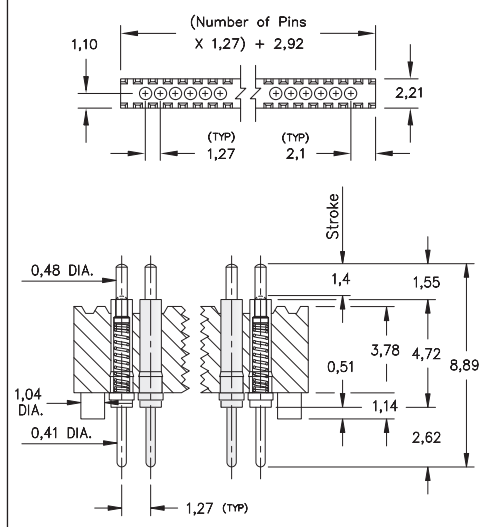
SPRING-LOADED CONNECTORS

SERIES 854 & 855 • 1,27 GRID THROUGH-HOLE MOUNT • SINGLE AND DOUBLE ROW STRIPS

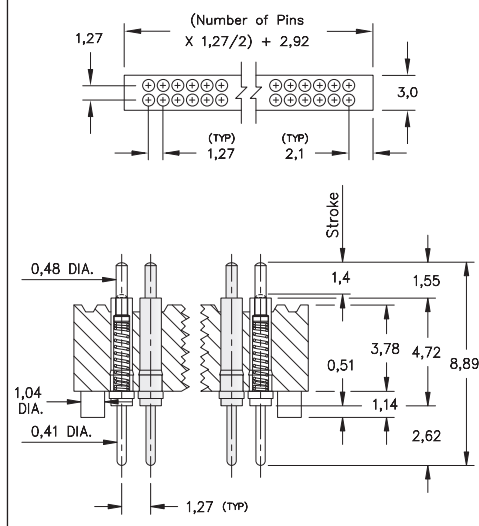


- Modular contacts for use on 1,27 grid, supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure a 1,000,000 cycle life durability
- Pistons have a 0,7 mid. stroke and a 1,4 max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for wave and reflow processes
- Both 854 & 855 series contact strips are designed for manual placement into $\varnothing 0,58 \pm 0,08$ plated through-holes in the circuit board prior to hand, wave or reflow soldering

SINGLE ROW Series 854



DOUBLE ROW Series 855



ORDERING INFORMATION

Single Row Series 854

854-22-0XX-10-001101

Specify number of contacts 02-20

Double Row Series 855

855-22-0XX-10-001101

Specify number of contacts 04-40

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51 μ m gold over 2,54 μ m nickel
Spring: Beryllium copper-plated 0,25 μ m gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
Spring force @ mid stroke (0,7): 60 grams
Durability: 1,000,000 cycles

Electrical:

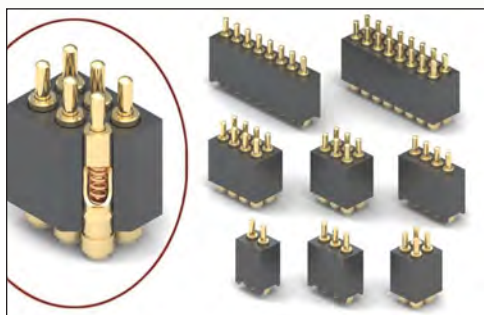
Voltage rating: 100Vrms/150Vdc
Current rating: 2A (continuous), 3A (peak) per contact
Contact resistance: 20m Ω max.
Insulation resistance: 10,000M Ω min.
Dielectric strength: 700Vrms min.
Capacitance: 1pF max.

RoHS-2
2011/65/EU



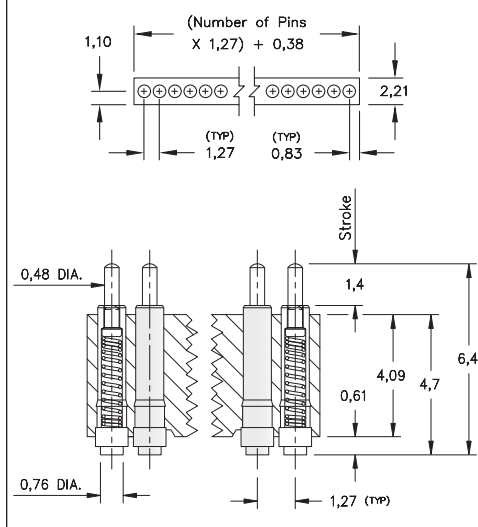
SPRING-LOADED CONNECTORS

SERIES 854 & 855 • 1,27 GRID SURFACE MOUNT, HIGH DENSITY • SINGLE AND DOUBLE ROW STRIPS

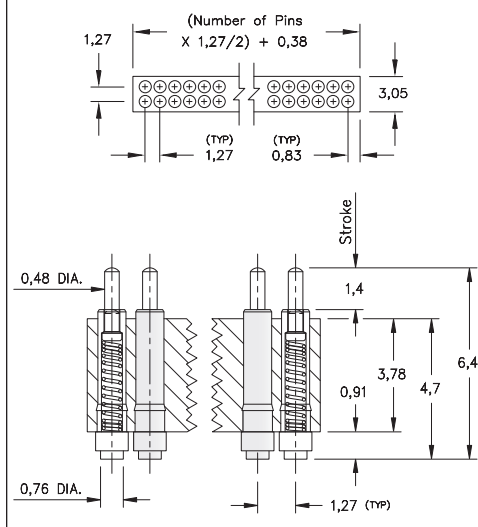


- Modular contacts for use on 1,27 grid, supplied in single and double row contact strips
- Precision-machined piston / base and gold-plated components assure a 1,000,000 cycle life durability
- Pistons have a 0,7 mid. stroke and a 1,4 max. stroke
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak
- High temperature thermoplastic insulators are suitable for surface mount processes
- 854 & 855 series contact strips are designed for manual placement onto 1,02 Ø solder pads

SINGLE ROW Series 854



DOUBLE ROW Series 855



ORDERING INFORMATION

Single Row Series 854

854-22-0XX-30-001101

Specify number of contacts 02-20

Double Row Series 855

855-22-0XX-30-001101

Specify number of contacts 04-40

Technical Specifications

Materials:

Contact piston & base: Machined copper alloy plated 0,51 µm gold over 2,54 µm nickel
Spring: Beryllium copper-plated 0,25 µm gold
Insulator: High temperature thermoplastic, rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams
Spring force @ mid stroke (0,7): 60 grams
Durability: 1,000,000 cycles

Electrical:

Voltage rating: 100Vrms/150Vdc
Current rating: 2A (continuous), 3A (peak) per contact
Contact resistance: 20mΩ max.
Insulation resistance: 10,000MΩ min.
Dielectric strength: 700Vrms min.
Capacitance: 1pF max.

RoHS-2
2011/65/EU



SPRING-LOADED CONNECTORS

SERIES 319, 330, 399 • 2,54 GRID TARGET CONNECTORS FOR SPRING-LOADED ASSEMBLIES • SINGLE ROW STRIPS

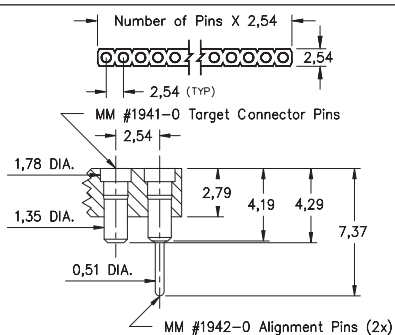


FIG. 1

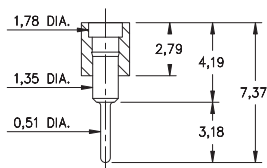


FIG. 2

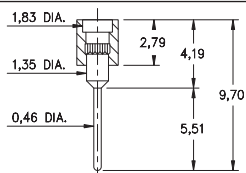


FIG. 3

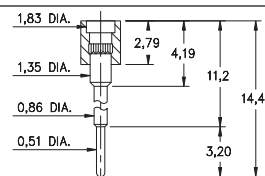


FIG. 4

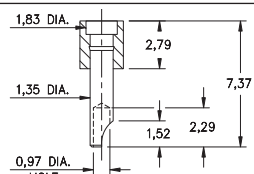


FIG. 5

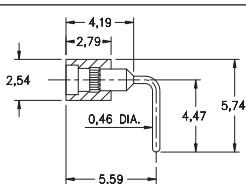
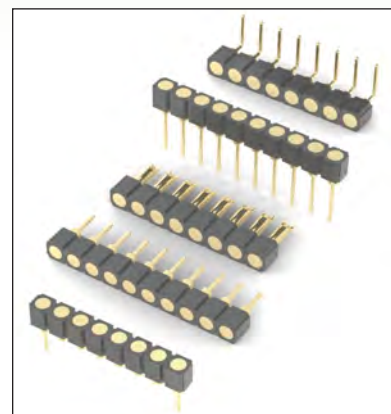
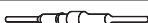


FIG. 6

- Series 319, 330 and 399 Spring Target Connectors, supplied in single row strips
- Spring Target Connectors present a large flat surface for making contact with our standard 1,07 dia. spring pin plungers. The target connectors provide an excellent gold-plated conductive path back to the board mounted spring pin connector
- Target connectors use MM #1938, #1940, #1941, #1942 and #3024 pins. See page 218 for details
- Insulators are high temperature thermoplastic



ORDERING INFORMATION

FIG. 1	Series 319...041	Surface Mount w/ Alignments Pins
	319-10-1	-30-041000 Specify number of pins 03-64
FIG. 2	Series 319...001	Standard Solder Tails
	319-10-1	-00-001000 Specify number of pins 01-64
FIG. 3	Series 319...002	Long Solder Tails
	319-10-1	-00-002000 Specify number of pins 01-64
FIG. 4	Series 319...005	Elevated with Solder Tails
	319-10-1	-00-005000 Specify number of pins 01-64
FIG. 5	Series 330...240	Solder Cups
	330-10-1	-00-240000 Specify number of pins 01-64
FIG. 6	Series 399...008	Right Angle Solder Tails
	399-10-1	-10-008000 Specify number of pins 01-64
RoHS-2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264		
SPECIFY PLATING CODE XX=		
Pin Plating 		
10 		
0,25µm Au		



SPRING-LOADED CONNECTORS

SERIES 419, 430, 499 • 2,54 GRID TARGET CONNECTORS FOR SPRING-LOADED ASSEMBLIES • DOUBLE ROW STRIPS

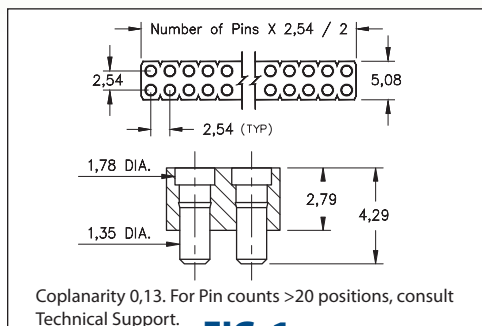


FIG. 1

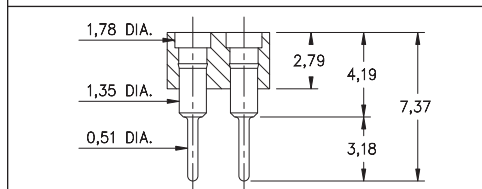


FIG. 2

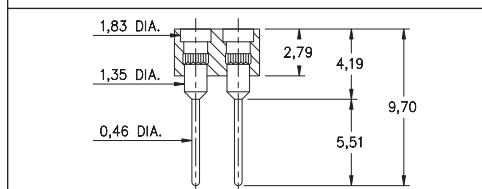


FIG. 3

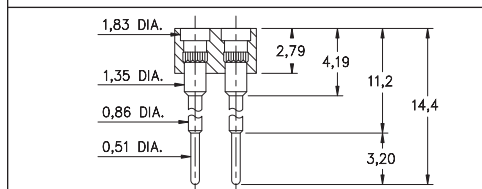


FIG. 4

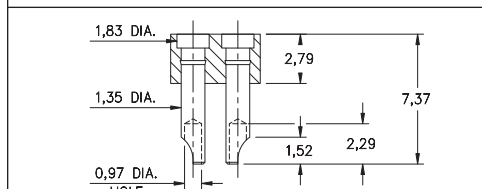


FIG. 5

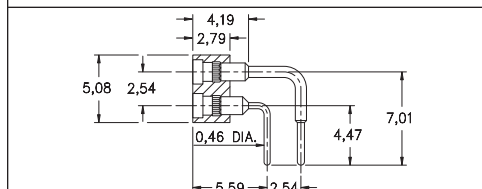
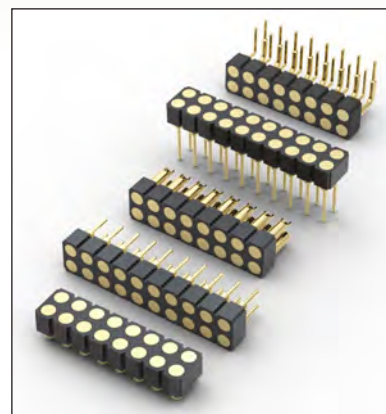


FIG. 6

- Series 419, 430 and 499 Spring Target Connectors, supplied in double row strips
- Spring Target Connectors present a large flat surface for making contact with our standard 1,07 dia. spring pin plungers. The target connectors provide an excellent gold-plated conductive path back to the board mounted spring pin connector
- Target connectors use MM #1938, #1940, #1941, #1942 and #3024 pins. See page 218 for details
- Insulators are high temperature thermoplastic



ORDERING INFORMATION

FIG. 1	Series 419...041	Surface Mount
	419-10-2-30-041000	Specify number of pins 04-64
FIG. 2	Series 419...001	Standard Solder Tails
	419-10-2-00-001000	Specify number of pins 04-64
FIG. 3	Series 419...002	Long Solder Tails
	419-10-2-00-002000	Specify number of pins 04-64
FIG. 4	Series 419...005	Elevated with Solder Tails
	419-10-2-00-005000	Specify number of pins 04-64
FIG. 5	Series 430...240	Solder Cups
	430-10-2-00-240000	Specify number of pins 04-64
FIG. 6	Series 499...008	Right Angle Solder Tails
	499-10-2-10-008000	Specify number of pins 04-64
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Enviromental Data, See page 264		
SPECIFY PLATING CODE XX=		
Pin Plating		
10 ◆		
0,25µm Au		



SPRING-LOADED CONNECTORS

SERIES 856, 857 • 1,27 GRID TARGET CONNECTORS FOR SPRING-LOADED ASSEMBLIES • SINGLE AND DOUBLE ROW STRIPS

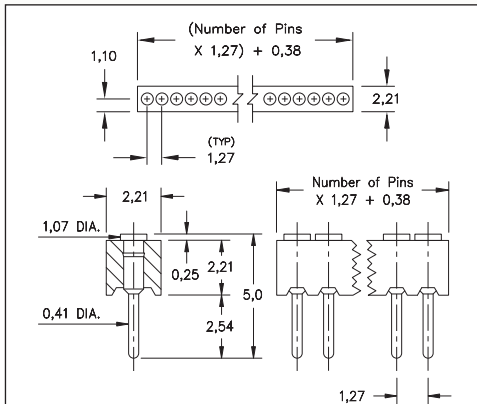


FIG. 1

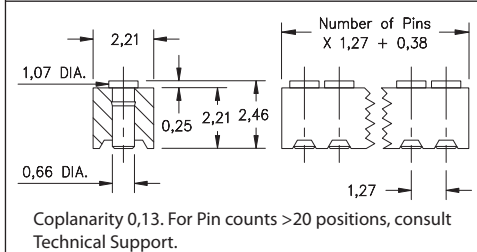


FIG. 2

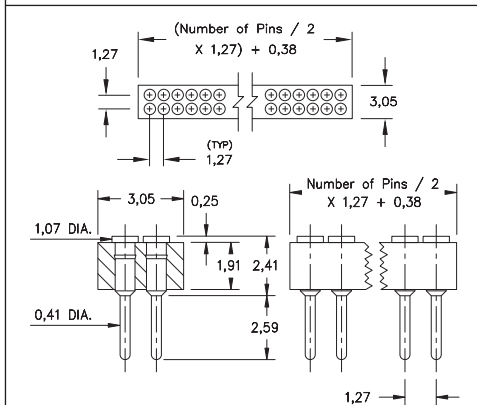


FIG. 3

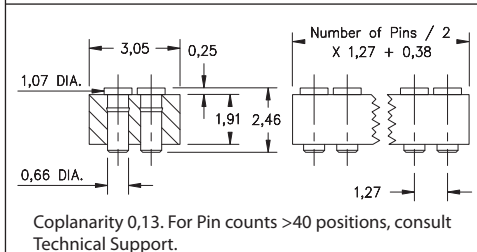
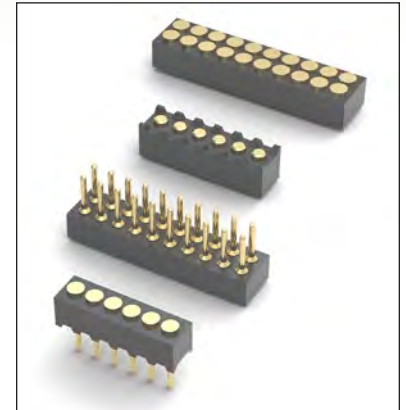


FIG. 4

- Series 856 and 857 Spring Target Connectors, supplied in single and double row strips
- Spring Target Connectors present a large flat surface for making contact with our standard 0,48 dia. spring pin plungers. The target connectors provide an excellent gold-plated conductive path back to the board-mounted spring pin connector
- Target connectors use MM #1933 and #1935 pins. See page 213 for details
- Insulators are high temperature thermoplastic



ORDERING INFORMATION

FIG. 1	Series 856...051	Standard Solder Tails
	856-10-0	-10-051000 Specify number of pins 01-20
FIG. 2	Series 856...051	Surface Mount
	856-10-0	-30-051000 Specify number of pins 02-20
FIG. 3	Series 857...051	Standard Solder Tails
	857-10-0	-10-051000 Specify number of pins 04-40
FIG. 4	Series 857...051	Surface Mount
	857-10-0	-30-051000 Specify number of pins 04-40
RoHS-2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264		
SPECIFY PLATING CODE XX=		
Pin Plating	10	0,25µm Au

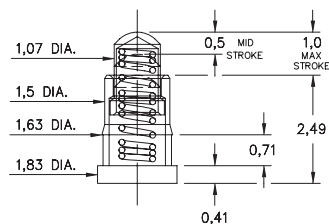
SPRING-LOADED PINS

DISCRETE SPRING-LOADED CONTACTS • SURFACE MOUNT

0900-0

0900-0-15-20-76-14-11-0

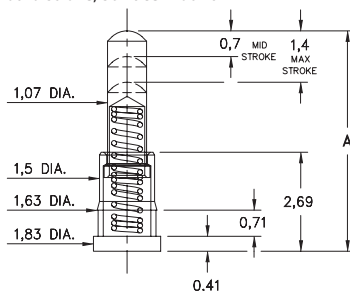
"Legacy P/N 0900-0-00-00-00-00-11-0"
Short stroke, Surface mount



0900-1 ⇨ 4,8

0900-X-15-20-75-14-11-0

"Legacy P/N 0900-X-00-00-00-00-11-0"
Standard stroke, Surface mount



Basic Part
Number

Length
A

0900-1

4,5

0900-2

5,0

0900-3

5,51

0900-4

5,99

* 0900-8

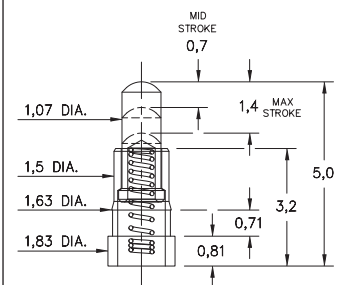
3,94

* 0900-8 has a 0,5 Mid.
Stroke & 1,0 Max. Stroke
Order as:
0900-8-15-20-76-14-11-0

0934

0934-0-15-20-74-14-26-0

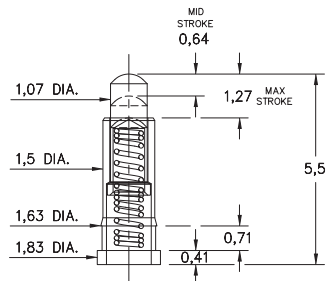
Standard stroke, Surface mount



0936

0936-0-15-20-75-14-11-0

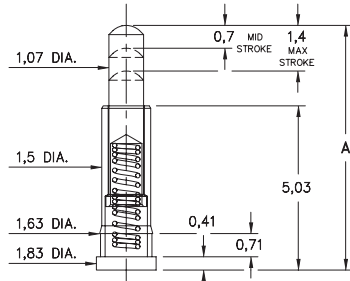
Standard stroke, Surface mount



0907-0 ⇨ 9

0907-X-15-20-75-14-11-0

Standard stroke, Surface mount, Mid profile



Basic Part
Number

Length
A

0907-0

6,48

0907-1

6,99

0907-2

7,49

0907-3

8,0

0907-4

8,51

0907-5

8,89

0907-6

9,4

0907-7

9,91

0907-8

10,41

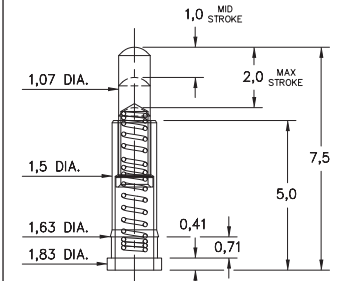
0907-9

10,92

0928

0928-0-15-20-77-14-11-0

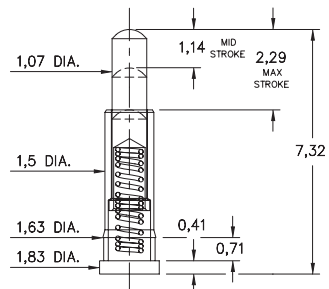
Long stroke, Surface mount



0913

0913-0-15-20-77-14-11-0

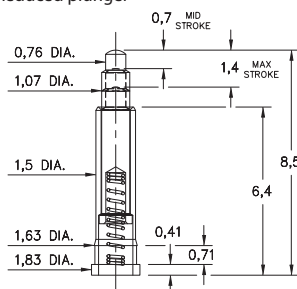
Long stroke, Surface mount, Mid profile



0925

0925-0-15-20-73-14-26-0

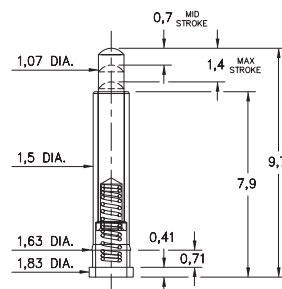
Standard stroke, Surface mount
Reduced plunger



0927

0927-0-15-20-75-14-11-0

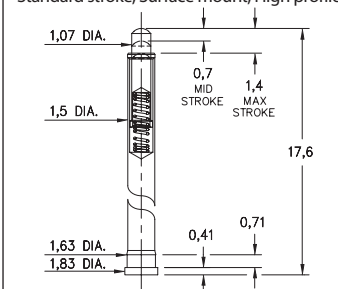
Standard stroke, Surface mount, Mid profile



0905

0905-0-15-20-75-14-11-0

"Legacy P/N 0905-0-00-00-00-00-11-0"
Standard stroke, Surface mount, High profile



Material Specifications:

Sleeve & Plunger Material: Copper Alloy

Spring Material: Beryllium Copper

Sleeve & Plunger Finish: 0,5µm Gold over Nickel

Spring Finish: 0,25µm Gold over Nickel

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,15

Diameters: ± 0,051

Angles: ± 2°

RoHS-2
2011/65/EU

Mechanical & Electrical Specifications:

Durability: 1,000,000 cycles

Current Rating: 2A continuous, 3A peak

Contact Resistance: 20 mΩ max.

Environmental Specifications:

Operating temperature range: -55/+125°C

73, 74, 75, 76, 77 Springs are not interchangeable

Order Code: 09XX - X - 15 - 20 - **7X** - 14 - XX - 0

Spring Number

Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
73	0,7	1,4	60 g	25 g
74	0,7	1,4	50 g	15 g
75	0,7	1,4	60 g	25 g
76	0,5	1,0	60 g	25 g
77	1,14	2,29	60 g	25 g



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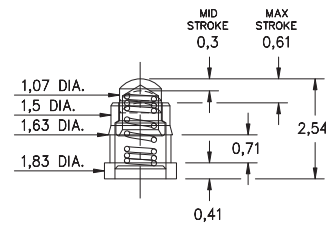
SPRING-LOADED PINS

DISCRETE SPRING-LOADED CONTACTS

0965

0965-0-15-20-80-14-11-0

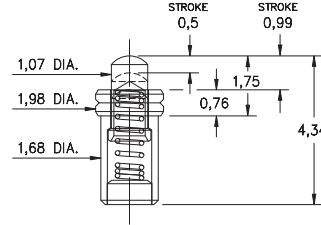
Ultra low profile, Surface mount
* Stainless steel spring



0921-0

0921-0-15-20-76-14-11-0

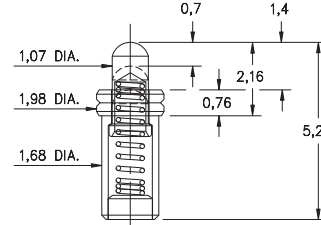
Ultra low profile, Short stroke
Solder mount in 1,78 min. mounting hole



0921-1

0921-1-15-20-75-14-11-0

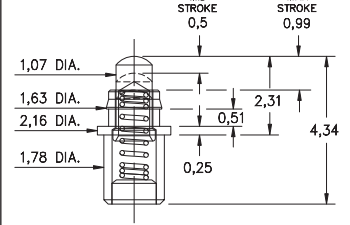
Low profile, Standard stroke
Solder mount in 1,78 min. mounting hole



0926-0

0926-0-15-20-76-14-11-0

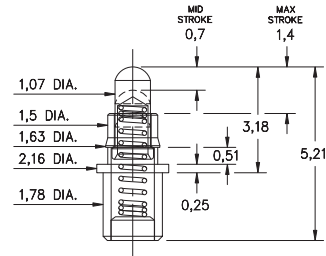
Low Profile, Short Stroke
Solder mount in 1,88 min. mounting hole



0926-1

0926-1-15-20-75-14-11-0

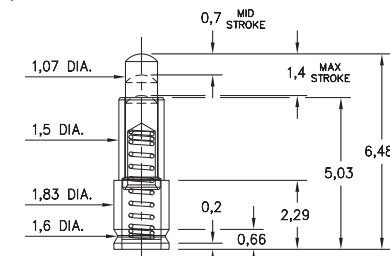
Low profile, Standard stroke
Solder mount in 1,88 min. mounting hole



0977

0977-0-15-20-75-14-11-0

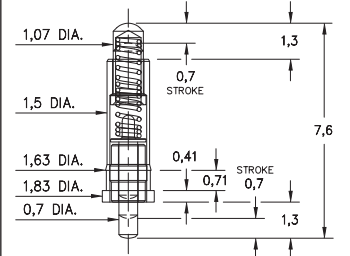
Standard stroke, Surface mount
Also available on 24mm wide carrier tape: 1,100 parts per 330mm reel. Order as: 0977-0-57-20-75-14-11-0



0980

0980-0-15-20-75-14-11-0

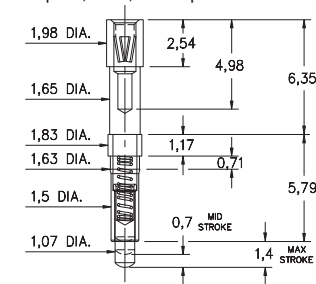
Double action, 1,4 Combined stroke
Mount between parallel circuit boards



0959

0959-0-54-20-75-14-11-0

Receptacle spring pin, Standard stroke
Accepts 0,51 - 0,81 Dia. pins



Material Specifications:

Sleeve & Plunger Material: Copper Alloy
Spring Material: BeCu or Stainless Steel 302 *
Sleeve & Plunger Finish: 0,5µm Gold over Nickel
Spring Finish: 0,25µm Gold over Nickel
Dimensions: Millimeters
Tolerances On: Lengths: $\pm 0,15$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



Mechanical & Electrical Specifications:

Durability: 1,000,000 cycles
Current Rating: 2A continuous, 3A peak
Contact Resistance: 20 mΩ max.
Environmental Specifications:
Operating temperature range: -55/+125°C
75, 76, 80, 85 Springs are not interchangeable

Order Code: 09XX - X - 15 - 20 - XX - 14 - 11 - 0

Spring Number

Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
75	0,7	1,4	60 g	25 g
76	0,5	0,99	60 g	25 g
80	0,3	0,61	70 g	25 g
85	1,02	2,03	60 g	25 g



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SPRING-LOADED PINS

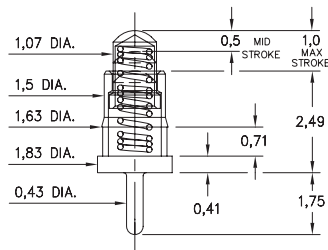
DISCRETE SPRING-LOADED CONTACTS • THROUGH-HOLE MOUNT

0906-0

0906-0-15-20-76-14-11-0

Short stroke

Solder mount in 0,51 min. mounting hole

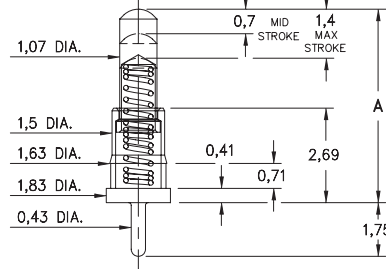


0906-1⇒4,8

0906-X-15-20-7X-14-11-0

Standard stroke

Solder mount in 0,51 min. mounting hole



Basic Part Number	Length A
-------------------	----------

0906-1	4,5
0906-2	5,0
0906-3	5,51
0906-4	5,99
*0906-8	3,94

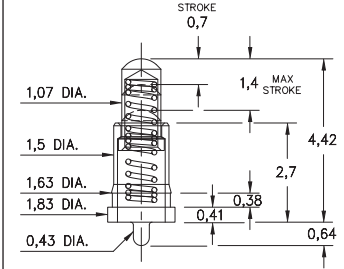
*0906-8 has a 0,5 Mid. Stroke & 1,0 Max. Stroke

0930

0930-0-15-20-75-14-11-0

Standard stroke

Solder mount in .051 min. mounting hole

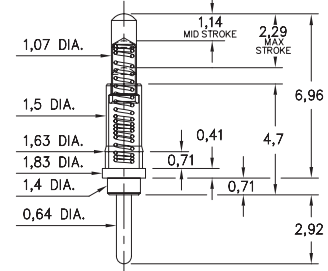


0914

0914-0-15-20-77-14-11-0

Long stroke

Solder mount in 0,74 min. mounting hole

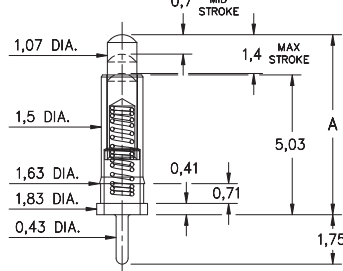


0908-0⇒9

0908-X-15-20-75-14-11-0

Standard stroke

Solder mount in 0,51 min. mounting hole



Basic Part Number	Length A
-------------------	----------

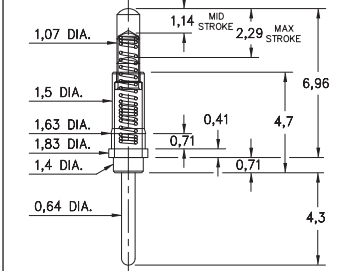
0908-0	6,48
0908-1	6,99
0908-2	7,49
0908-3	8,0
0908-4	8,51
0908-5	8,89
0908-6	9,4
0908-7	9,91
0908-8	10,41
0908-9	10,92

0932

0932-0-15-20-77-14-11-0

Long stroke

Solder mount in 0,74 min. mounting hole

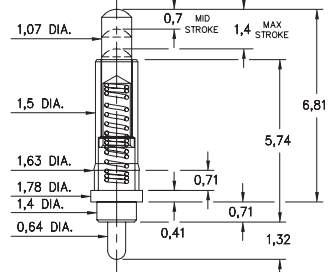


0901

0901-0-15-20-75-14-11-0

"Legacy P/N 0901-0-00-00-00-00-11-0"

Solder mount in 0,74 min. mounting hole

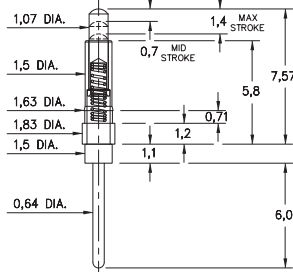


0929

0929-0-15-20-75-14-11-0

Standard stroke

Solder mount in 0,74 min. mounting hole

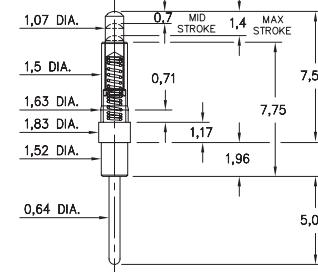


0922

0922-0-15-20-75-14-11-0

Standard stroke

Solder mount in 0,74 min. mounting hole

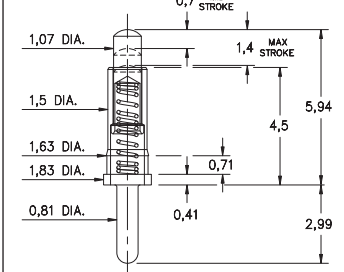


0956

0956-0-15-20-75-14-11-0

Standard stroke

Solder mount in 0,89 min. mounting hole



Material Specifications:

Sleeve & Plunger Material: Copper Alloy

Spring Material: Beryllium Copper

Sleeve & Plunger Finish: 0,5µm Gold over Nickel

Spring Finish: 0,25µm Gold over Nickel

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,15
Diameters: ± 0,051
Angles: ± 2°

RoHS-2
2011/65/EU

Mechanical & Electrical Specifications:

Durability: 1,000,000 cycles

Current Rating: 2A continuous, 3A peak

Contact Resistance: 20 mΩ max.

Environmental Specifications:

Operating temperature range: -55/+125°C

75, 76, 77 Springs are not interchangeable

Order Code: 09XX - X - 15 - 20 - 7X - 14 - 11 - 0

Spring Number

Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
75	0,7	1,4	60 g	25 g
76	0,5	0,99	60 g	25 g
77	1,14	2,29	60 g	25 g



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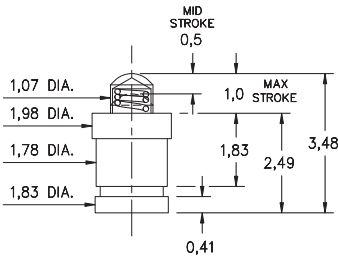
SPRING-LOADED PINS

DISCRETE SPRING-LOADED CONTACTS • SURFACE MOUNT

0910-0

0910-0-57-20-76-14-11-0

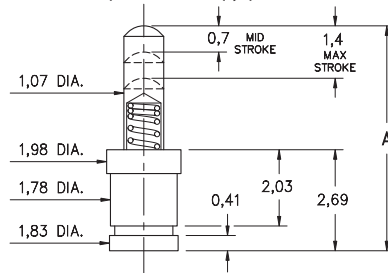
Short stroke, Surface mount
Packaged on 16mm wide carrier tape:
2,000 parts per 330mm reel.



0910-1⇨4

0910-X-57-20-75-14-11-0

Standard stroke, Surface mount
Packaged on carrier tape.
See chart for tape width and qty. per reel



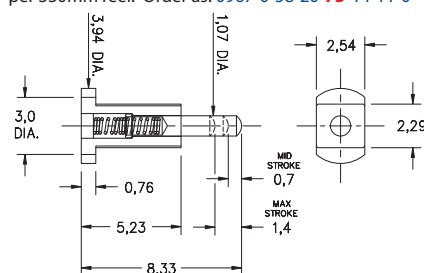
Basic Part Number	Length A
0910-1	4,5
0910-2	5,0
0910-3	5,51
0910-4	5,99

Basic Part Number	Tape Width	Quantity per Reel
0910-1	16mm	1,500
0910-2	24mm	1,100
0910-3	24mm	1,100
0910-4	24mm	1,100

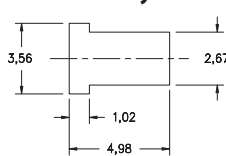
0967

0967-0-15-20-75-14-11-0

Standard stroke, Horizontal surface mount
Also available on 16mm wide carrier tape: 2,200 parts per 330mm reel. Order as: 0967-0-58-20-75-14-11-0



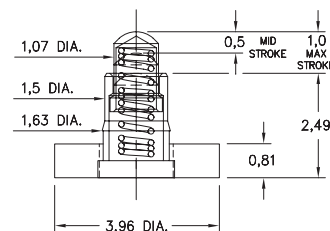
P.C.B. Layout



0990-0

0990-0-50-20-76-14-11-0

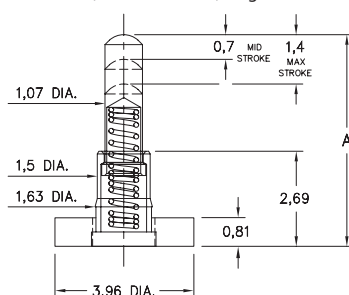
Short stroke, Surface mount, Large base



0990-1⇨4

0990-X-50-20-75-14-11-0

Standard stroke, Surface mount, Large base

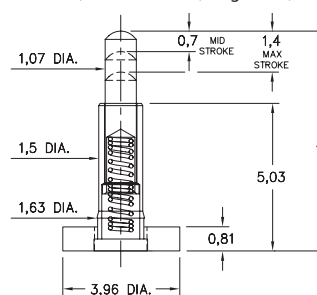


Basic Part Number	Length A
0990-1	4,5
0990-2	5,0
0990-3	5,51
0990-4	5,99

0997-0⇨9

0997-X-50-20-75-14-11-0

Standard stroke, Surface mount, Large base, Mid profile



Basic Part Number	Length A
0997-0	6,48
0997-1	6,99
0997-2	7,49
0997-3	8,0
0997-4	8,51
0997-5	8,89
0997-6	9,4
0997-7	9,91
0997-8	10,41
0997-9	10,92

Material Specifications:

Sleeve & Plunger Material: Copper Alloy
Spring Material: Beryllium Copper
Sleeve & Plunger Finish: 0,5µm Gold over Nickel
Spring Finish: 0,25µm Gold over Nickel
Dimensions: Millimeters
Tolerances On: Lengths: ± 0,15
 Diameters: ± 0,051
 Angles: ± 2°



Mechanical & Electrical Specifications:

Durability: 1,000,000 cycles
Current Rating: 2A continuous, 3A peak
Contact Resistance: 20 mΩ max.
Environmental Specifications:
Operating temperature range: -55/+125°C
75, 76 Springs are not interchangeable

Order Code: 09XX - X - XX - 20 - **7X** - 14 - 11 - 0

Spring Number

Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
75	0,7	1,4	60 g	25 g
76	0,5	0,99	60 g	25 g



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SPRING-LOADED PINS

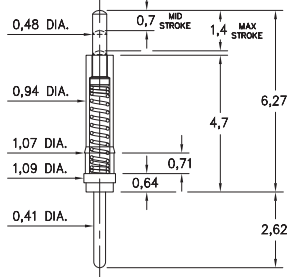
DISCRETE SPRING-LOADED CONTACTS

0985

0985-0-15-20-71-14-11-0

Standard stroke

Solder mount in 0,49 min. mounting hole

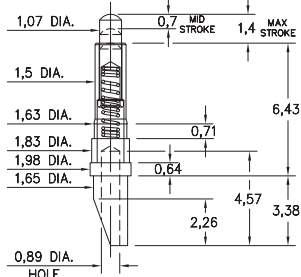


0933

0933-0-15-20-75-14-11-0

Standard stroke, Soldercup

Accepts wire sizes up to 0,64 Dia.

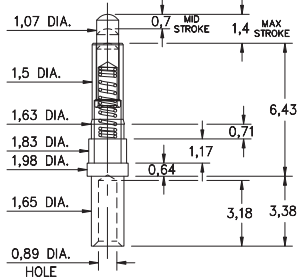


0962

0962-0-15-20-75-14-11-0

Standard stroke, Wire termination for

wire sizes 24 AWG Max. / 28 AWG Min.



Material Specifications:

Sleeve & Plunger Material: Copper Alloy

Spring Material: Beryllium Copper

Sleeve & Plunger Finish: 0,5µm Gold over Nickel

Spring Finish: 0,25µm Gold over Nickel

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,15$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$

RoHS - 2
2011/65/EU

Mechanical & Electrical Specifications:

Durability: 1,000,000 cycles

Current Rating: 2A continuous, 3A peak

Contact Resistance: 20 mΩ max.

Environmental Specifications:

Operating temperature range: -55/+125°C

71, 75 Springs are not interchangeable

Order Code: 09XX - X - 15 - 20 - **7X** - 14 - 11 - 0

Spring Number

Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
71	0,7	1,4	50 g	15 g
75	0,7	1,4	60 g	25 g



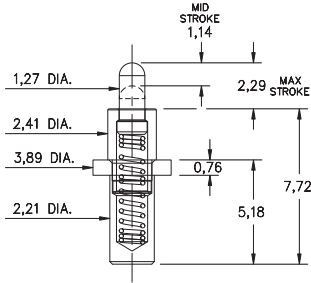
SPRING-LOADED PINS

DISCRETE SPRING-LOADED CONTACTS • POWER SPRING PINS

0850

0850-0-15-20-83-14-11-0

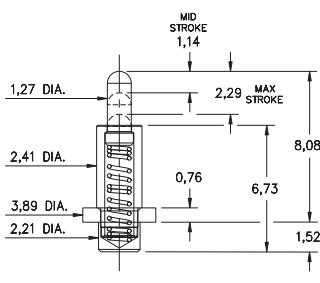
Power spring pin
Solder Mount in 2,29 min. mounting hole



0851

0851-0-15-20-82-14-11-0

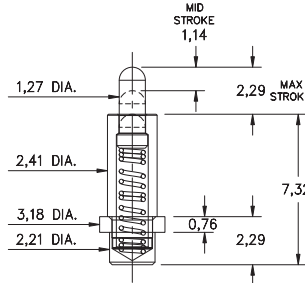
Power spring pin
Solder Mount in 2,29 min. mounting hole



0853

0853-0-15-20-82-14-11-0

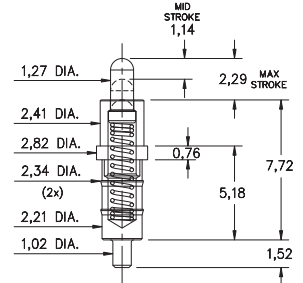
Power spring pin
Solder Mount in 2,29 min. mounting hole



0852

0852-0-15-20-83-14-11-0

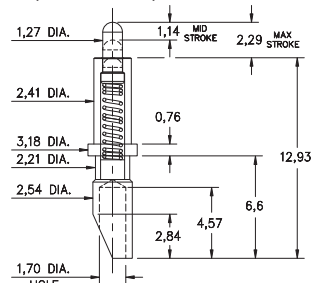
Power spring pin
Solder Mount in 1,09 min. mounting hole



0854

0854-0-15-20-82-14-11-0

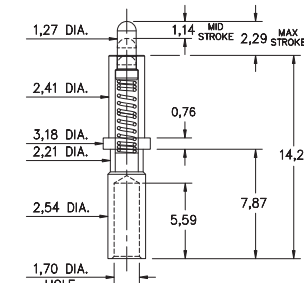
Power spring pin, Soldercup
Accepts wire sizes up to 1,45 Dia.



0855

0855-0-15-20-82-14-11-0

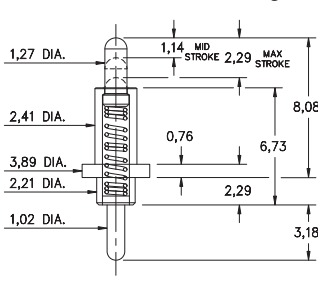
Power spring pin, Wire termination for
wire sizes 16 AWG Max. / 20 AWG Min.



0856

0856-0-15-20-82-14-11-0

Power spring pin
Solder Mount in 1,09 min. mounting hole



Material Specifications:

Sleeve & Plunger Material: Copper Alloy
Spring Material: Stainless Steel 302
Sleeve & Plunger Finish: 0,5µm Gold over Nickel
Spring Finish: 0,25µm Gold over Nickel
Dimensions: Millimeters
Tolerances On: Lengths: $\pm 0,15$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



Mechanical & Electrical Specifications:

Durability: 1,000,000 cycles
Rated Current (Free air):
Continuous 9 amps @ 10° C temperature rise
Contact Resistance: 20 mΩ max.
Environmental Specifications:
Operating temperature range: -55/+125° C

82, 83 Springs are not interchangeable

Order Code: 08XX - X - 15 - 20 - **8X** - 14 - 11 - 0

Spring Number

Spring Number	Mid. Stroke	Max. Stroke	Force @ Mid. Stroke	Initial Force (Pre-Load)
82	1,14	2,29	120 g	25 g
83	1,14	2,29	120 g	25 g

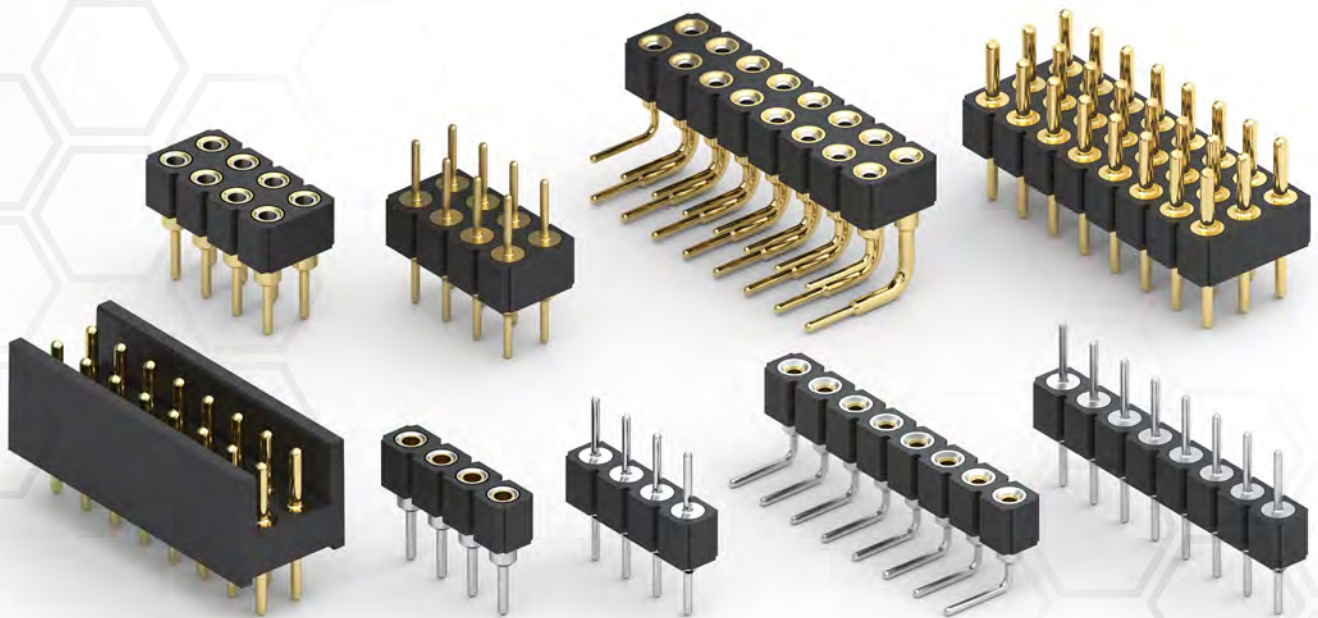


Mill-Max Mfg. Corp. • 190 Pine Hollow Road, P.O. Box 300, Oyster Bay, NY 11771 • 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com



WWW.MILL-MAX.COM

BOARD-TO-BOARD INTERCONNECTS



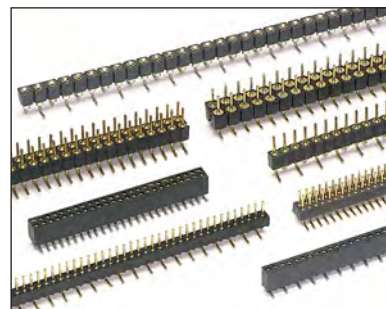
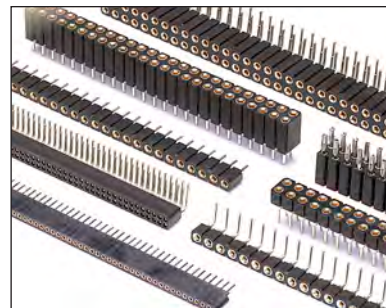


WWW.MILL-MAX.COM

MILL-MAX HEADER AND SOCKET INTERCONNECTS OFFER AN IDEAL SOLUTION TO THE BOARD-TO-BOARD INTERCONNECT CHALLENGES THAT DESIGN ENGINEERS FACE EVERY DAY. We offer a variety of options to accommodate everything from space-saving, fine-pitch requirements, to larger, more robust applications in which products are subjected to harsh environments including significant shock and vibration. By mating different combinations of headers and sockets, a wide range of board-to-board spacing can be achieved.

MILL-MAX CONNECTORS ARE AVAILABLE IN THE FOLLOWING CONFIGURATIONS:

- Pluggable using a mating socket and header
- Permanent by soldering a through-hole header to both boards
- Fine pitch from 2mm down to 1mm pin-to-pin spacing
- Surface mount headers and sockets
- Right angle
- Multiple board stacking using Organic Fiber Plug® pass-through sockets
- Horizontal "Z-Bend" SMT
- Wire Termination: Soldercup, Turret, Slotted
- Solderless Press-fit



CUSTOM INSULATORS

NEED A SOCKET OR HEADER IN A UNIQUE CONFIGURATION?

Mill-Max can manufacture custom insulators to your exacting specifications, saving you money for high volume runs.

When your product's in high demand, the most cost-effective way to produce a custom connector insulator is to mold it. Mill-Max can mold* insulators out of PCT, Nylon, PPS or LCP, depending on the environmental, mechanical, electrical and thermal requirements of your application.

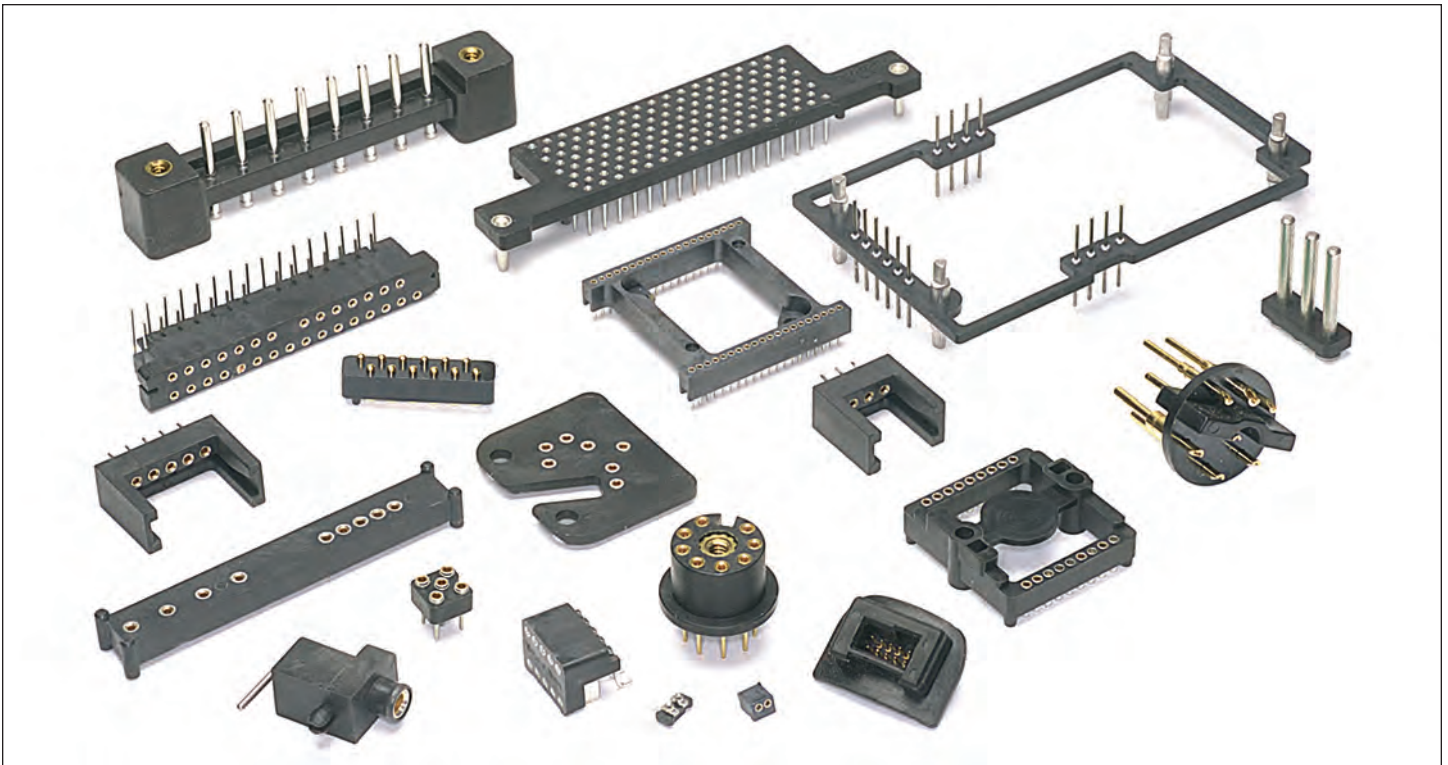
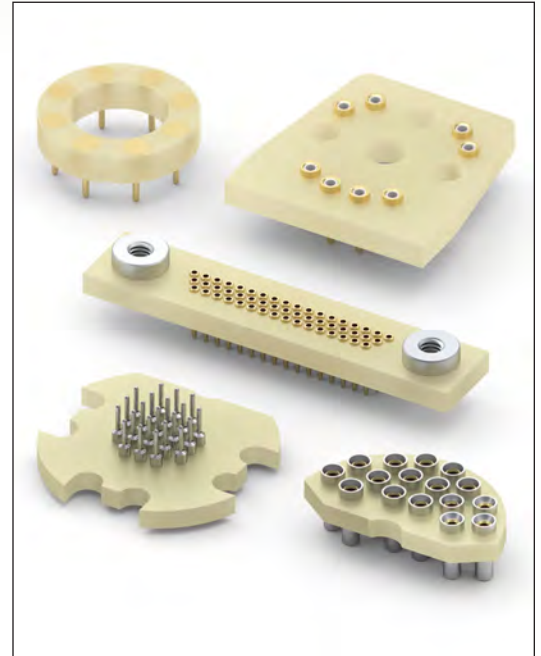
If you have a high-volume connector application, Mill-Max can provide a superior molded insulator solution that will keep your costs in check.

In addition, Mill-Max's utilization of FR-4 epoxy material, in combination with standard pins/receptacles, makes this kind of customization a quick and efficient process for both prototype and volume production.

FR-4 insulators offered in standard thicknesses of 0,51, 0,79, 1,19, 1,57, 2,36 and 3,18 are best suited for single plane designs. Mill-Max can turn around a socket, header or spring pin connector typically in 2-4 weeks or less! (Provided that a standard receptacle or pin with a press-fit feature is used.)

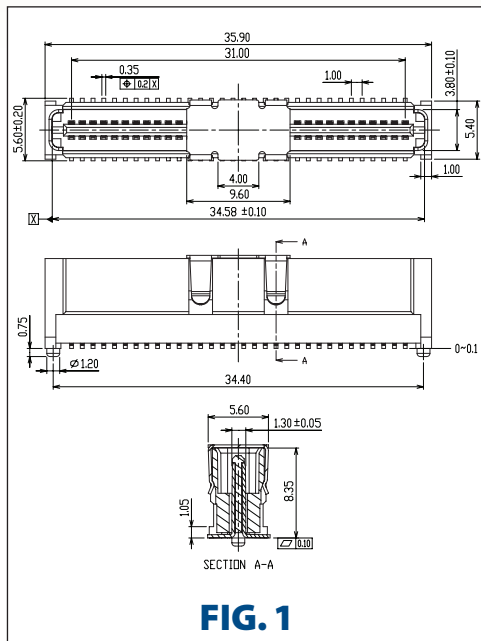
Please contact us with your custom application by completing our Custom Product Worksheet on page 247.

* A one-time partial tooling charge is assessed in order to cover the costs associated with building a custom mold tool.

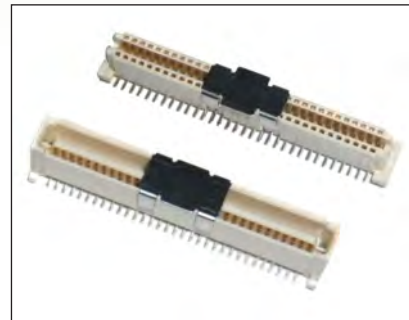


INTERCONNECTS

SERIES 891 & 893 • 1mm GRID SURFACE MOUNT • MALE AND FEMALE CONNECTORS

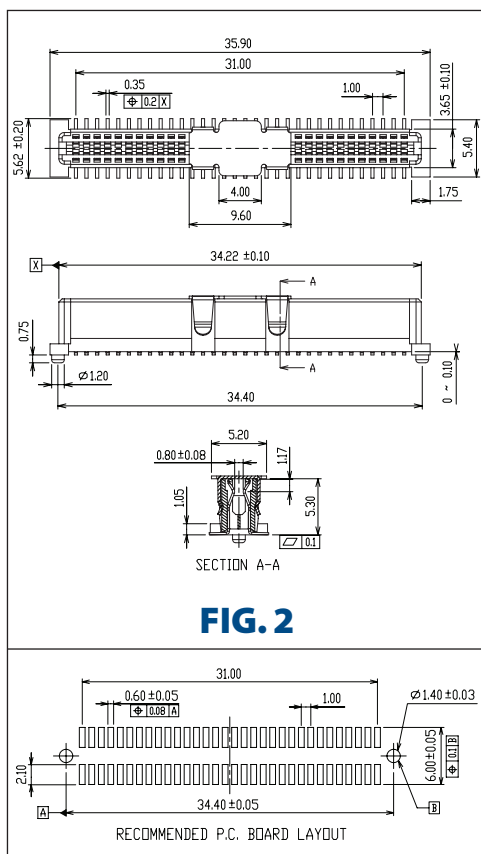


- 64 Position Mezzanine Connectors for board stacking
- 1 mm Centerline high density packaging
- Mated connector board stacking height of 10 mm
- Conforms to EIA-700 AAAB for IEEE 1386 applications
- Tape & Reel packaged per EIA-783 (56 mm wide; 16 mm pitch)
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 891...120 1mm Surface Mount Male Connector
	891-10-064-30-120000 Tape and Reel Packaging: 400 Parts per 330mm reel
FIG. 2	Series 893...420 1mm Surface Mount Female Connector
	893-43-064-30-420000 Tape and Reel Packaging: 600 Parts per 330mm reel



Technical Specifications

Materials:

Terminals and Contacts: Phosphor Bronze
Plating: Contact area - 0,76µm Gold over Nickel
Solder Terminals - 1,9µm Tin over Nickel
Vacuum Cap: Stainless Steel
Insulator Material: High temperature glass filled LCP, rated UL 94V-0

RoHS - 2
2011/65/EU

Ratings:

Current: (30° C Temperature Rise): 0.5 A max., all circuits wired in series (1.0A max., five adjacent circuits wired in series)
Voltage: 250V AC (RMS) (contact to contact)
Operating Temperature Range: -55° C - +85° C

Electrical:

Contact resistance: 30mΩ max.
Insulation resistance: 1,000 MΩ min.
Dielectric Withstanding Voltage: 250V AC for one minute @ sea level

Mechanical:

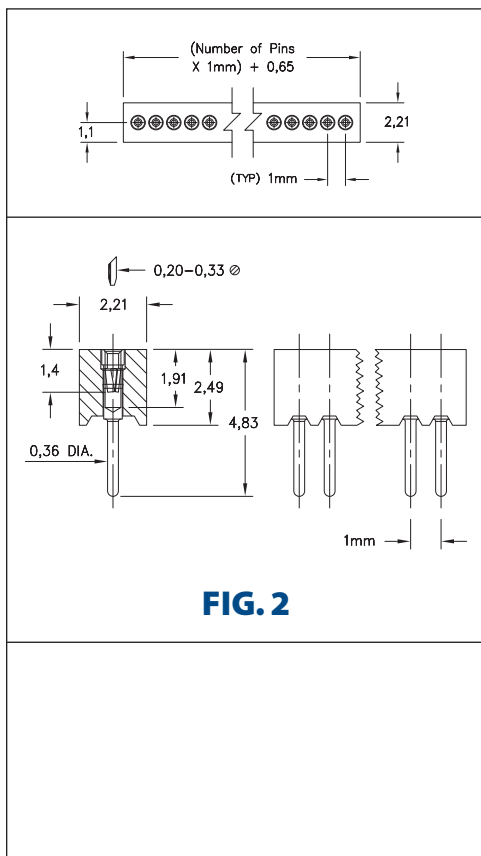
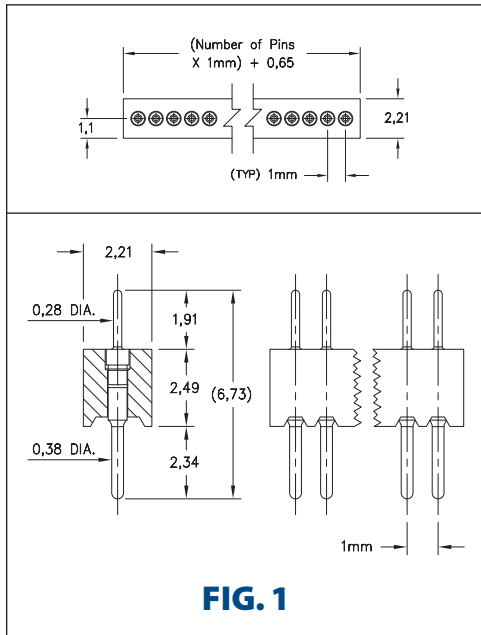
Vibration: No discontinuity > 1 ms per MIL-STD 202, Method 201
Physical Shock: No discontinuity > 1 µs per EIA 364-27 Test Condition H
Durability: 100 cycles min. per EIA 364-09
Mating Force: 60 g/terminal max. per EIA 364-13
Separation Force: 23 g/terminal min. per EIA 364-13
Contact Retention Force: .4Kg min. per EIA 364-35

Environmental:

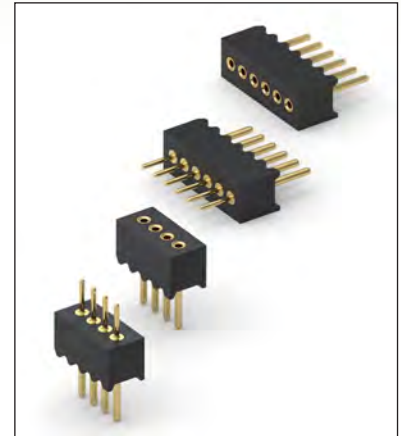
Thermal Shock: Per EIA 364-32, Test Condition I
Humidity: Test conditions - Ambient temp. 40±2°C; Relative humidity: 90 - 95%; Duration: 96 Hrs.
Post Humidity Inspection - 1. No damage
2. Contact resistance change < 15 mΩ
3. Insulation Resistance: 100 MΩ min.
Solderability: Per EIA 364-52 Category 2

INTERCONNECTS

SERIES 860 & 861 • 1mm GRID HEADERS AND SOCKETS • SINGLE ROW STRIPS



- Series 860 headers and Series 861 sockets are single row, 1mm pitch interconnects rated at 2 amps
- Series 860 headers have 0,38 diameter solder tails and 0,28 diameter pluggable pins (MM #3039) See page 208 for details
- Series 861 sockets have 0,36 diameter solder tails (MM #0439). See page 156 for details
- Both 860 headers and 861 sockets are available in 2-50 position strips
- The header and socket provide a mated height of 4,98 for board stacking applications
- Insulators are high temperature thermoplastic, suitable for most soldering processes, and feature standoffs to promote solder flow



ORDERING INFORMATION

FIG. 1	Series 860...002		Single Row 1mm Header			
	860-10-0- -10-002000 Specify number of pins 02-50					
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Enviromental Data, See page 264						
SPECIFY PLATING CODE XX=		10				
Pin Plating		0,25µm Au				

FIG. 2	Series 861...002		Single Row 1mm Socket			
	861-13-0- -10-002000					
	Specify number of pins		02-50			
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Enviromental Data, See page 264						
SPECIFY PLATING CODE XX=		13				
Sleeve (Pin)		0,25µm Au				
Contact (Clip)		0,76µm Au				



INTERCONNECTS

SERIES 850, 851, 852, 853 • 1,27 GRID HEADERS AND SOCKETS • SINGLE AND DOUBLE ROW STRIPS

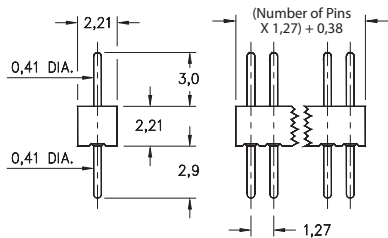


FIG. 1

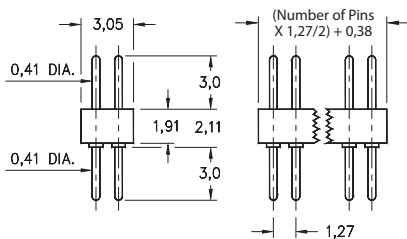


FIG. 2

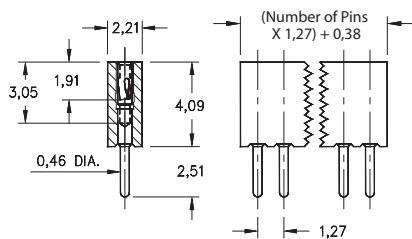


FIG. 3

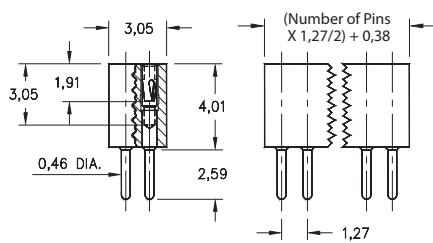


FIG. 4

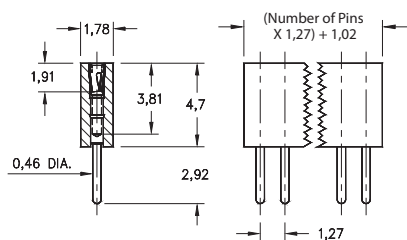


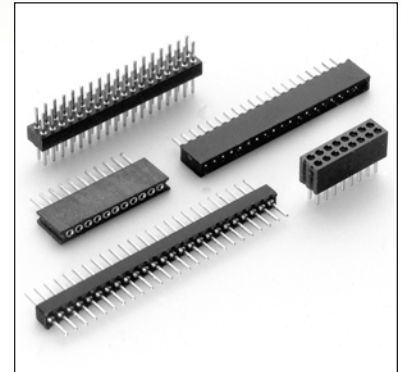
FIG. 5

• Series 850, 851, 852, 853 single and double row interconnects have 1,27 pin spacing and permit board stacking as low as 6,3

• Pin headers have 0,41 dia. pins (MM #4006-0) See page 208 for details

• MM #0467 and MM #4890 receptacles use Hi-Rel, 3-finger BeCu #11 contact rated at 3 amps. (#11 contact accepts pin diameters from 0,38 - 0,51). See pages 158 and 160 for details

• Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 850...001 Single Row 2,21 Profile Pin Header																				
	850-XX-0-10-001000 Specify number of pins 01-50																				
FIG. 2	Series 852...001 Double Row 2,11 Profile Pin Header																				
	852-XX--10-001000 Specify number of pins 002-100																				
RoHS-2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Enviromental Data, See page 264																					
SPECIFY PLATING CODE XX=																					
<table><tr><td>10</td><td>90</td><td>40</td></tr><tr><td>Pin Plating</td><td>0,25µm Au</td><td>5,08µm Sn/Pb</td><td>5,08µm Sn</td></tr></table>				10	90	40	Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn											
10	90	40																			
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn																		
FIG. 3	Series 851...001 Single Row 4,09 Profile Socket																				
	851-XX-0-10-001000 Specify number of pins 01-50																				
FIG. 4	Series 853...001 Double Row 4,09 Profile Socket																				
	853-XX--10-001000 Specify number of pins 002-100																				
FIG. 5	Series 851...002 Single Row 4,7 Profile Socket																				
	851-XX-0-10-002000 Specify number of pins 01-77																				
RoHS-2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Enviromental Data, See page 264																					
SPECIFY PLATING CODE XX=																					
<table><tr><td></td><td>91</td><td>93</td><td>99</td><td>41</td><td>43</td></tr><tr><td>Sleeve (Pin)</td><td>5,08µm Sn/Pb</td><td>5,08µm Sn/Pb</td><td>5,08µm Sn/Pb</td><td>5,08µm Sn</td><td>5,08µm Sn</td></tr><tr><td>Contact (Clip)</td><td>0,25µm Au</td><td>0,76µm Au</td><td>2,54µm Sn/Pb</td><td>0,25µm Au</td><td>0,76µm Au</td></tr></table>					91	93	99	41	43	Sleeve (Pin)	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	Contact (Clip)	0,25µm Au	0,76µm Au	2,54µm Sn/Pb	0,25µm Au	0,76µm Au
	91	93	99	41	43																
Sleeve (Pin)	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn																
Contact (Clip)	0,25µm Au	0,76µm Au	2,54µm Sn/Pb	0,25µm Au	0,76µm Au																



INTERCONNECTS

SERIES 851 & 853 • 1,27 GRID LONG TAIL SOCKETS • SINGLE AND DOUBLE ROW STRIPS

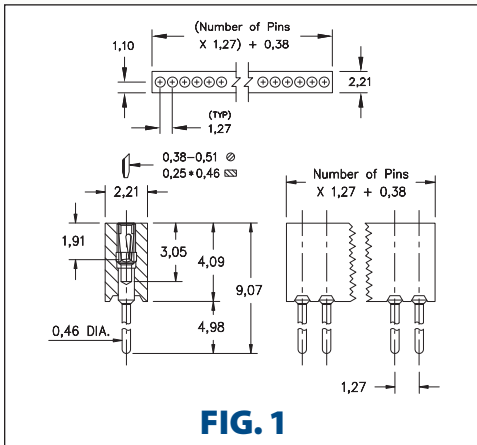


FIG. 1

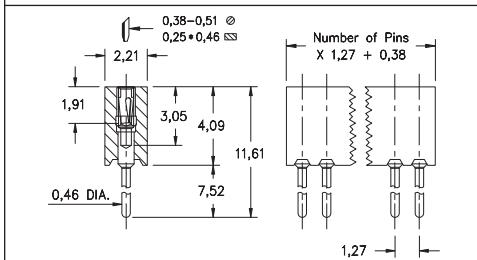


FIG. 2

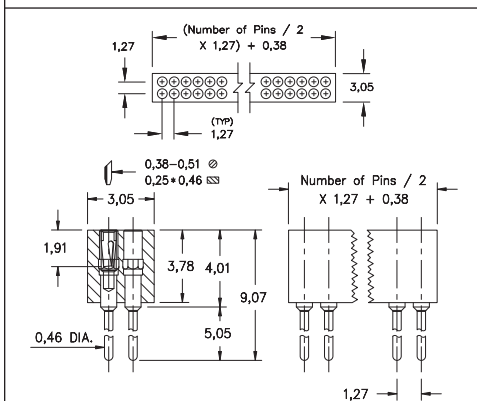


FIG. 3

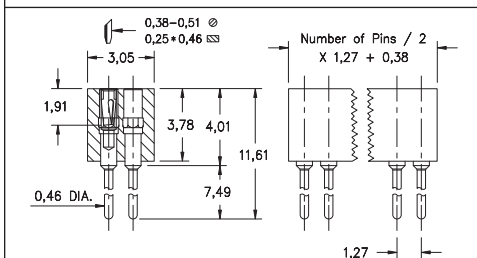
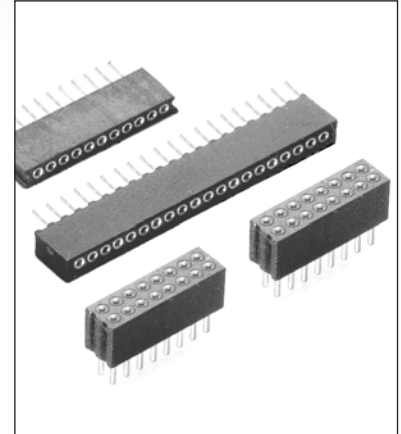


FIG. 4

- Series 851...011 and 853...011 use MM #4890-1 pins. See page 160 for details
- Series 851...021 and 853...021 use MM #4890-2 pins. See page 160 for details
- Receptacles use Hi-Rel, 3-finger BeCu #11 contact rated at 3 amps. (#11 contact accepts pin diameters from 0,38 - 0,51). See page 251 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 851...011	Single Row Socket
	851-XX-0	-10-011000 Specify number of pins 01-50
FIG. 2	Series 851...021	Single Row Socket
	851-XX-0	-10-021000 Specify number of pins 01-50
FIG. 3	Series 853...011	Double Row Socket
	853-XX-	-10-011000 Specify number of pins 004-100
FIG. 4	Series 853...021	Double Row Socket
	853-XX-	-10-021000 Specify number of pins 004-100
RoHS -2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264		
SPECIFY PLATING CODE XX=		
Sleeve (Pin)		41 43
Contact (Clip)		5,08µm Sn 5,08µm Sn 0,25µm Au 0,76µm Au

INTERCONNECTS

SERIES 850, 851, 852, 853 • 1,27 GRID RIGHT ANGLE HEADERS AND SOCKETS • SINGLE AND DOUBLE ROW STRIPS

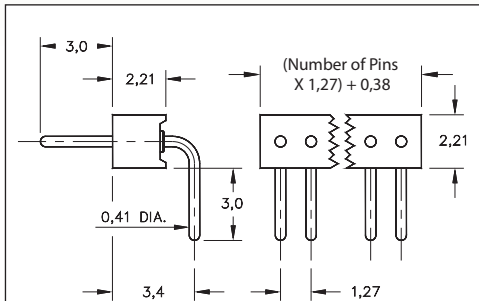


FIG. 1

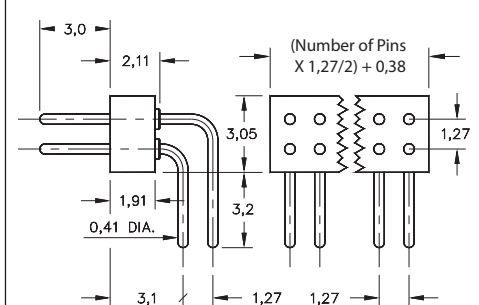


FIG. 2

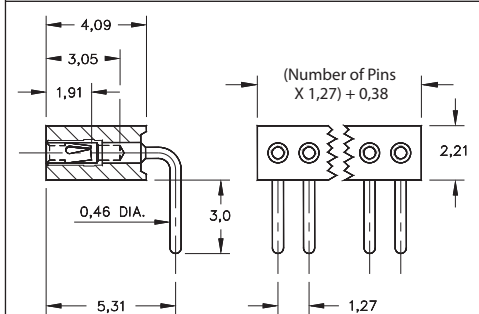


FIG. 3

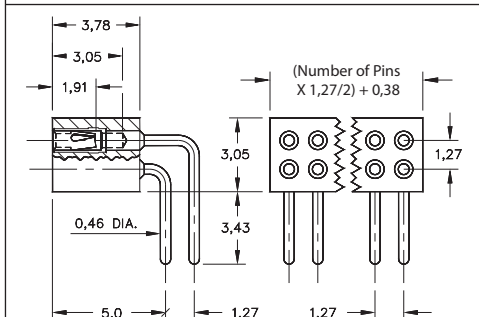
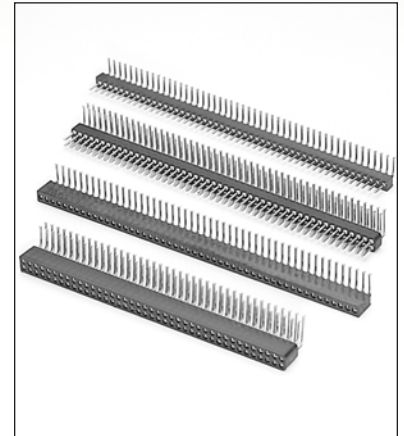


FIG. 4

- Series 850 and 851 interconnects are available in single and double row form
- Series 850 & 852 headers use MM #4006-1 and #4006-2 pins. See page 208 for details
- Series 851 & 853 sockets use MM #4890-1 and #4890-2 receptacles that accept pin diameters from 0.38 - 0.53. See page 160 for details
- Receptacles use Hi-Rel, 3-finger BeCu #11 contact rated at 3 amps. See page 251 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 850...001 Single Row Right Angle Pin Header	
	850-XX-0-20-001000 Specify number of pins 01-50	
FIG. 2	Series 852...001 Double Row Right Angle Pin Header	
	852-XX-20-001000 Specify number of pins 002-100	
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264		
SPECIFY PLATING CODE XX=		
10 		
90		
40 		
Pin Plating 		
0,25µm Au		
5,08µm Sn/Pb		
5,08µm Sn		

FIG. 3	Series 851...001		Single Row Right Angle Socket		
	851-XX-0-20-001000 Specify number of pins 01-50				
FIG. 4	Series 853...001		Double Row Right Angle Socket		
	853-XX-20-001000 Specify number of pins 002-100				
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264					
SPECIFY PLATING CODE XX=					
Sleeve (Pin)			93	99	43 
			5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn
Contact (Clip)			0,76µm Au	2,54µm Sn/Pb	0,76µm Au



INTERCONNECTS

SERIES 850, 851, 852, 853 • 1,27 GRID SURFACE MOUNT HEADERS AND SOCKETS • SINGLE AND DOUBLE ROW STRIPS

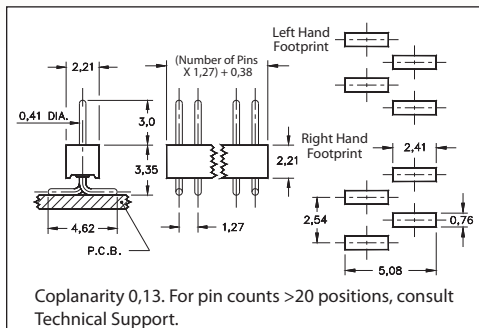


FIG. 1

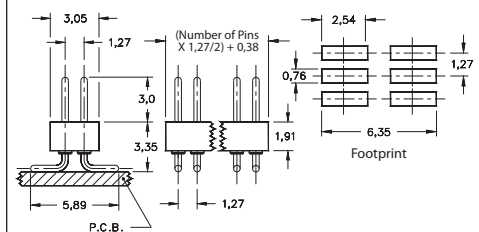


FIG. 2

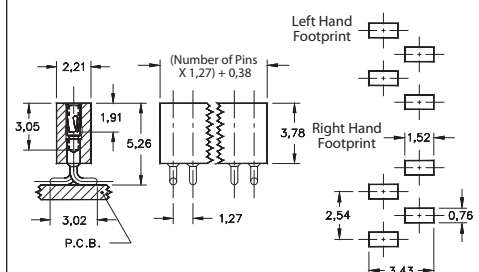


FIG. 3

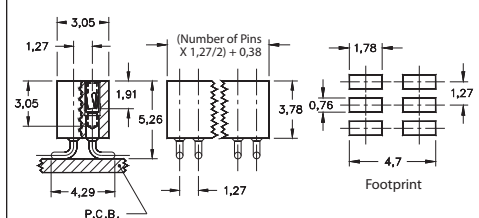


FIG. 4

- Single row interconnects having an even number of pins are now available with a left or right hand footprints
- Headers (850 and 852) use MM #4006 pins. See page 208 for details
- Sockets (851 and 853) use MM #4890-0 receptacles and accept pin diameters from 0,38 - 0,51. See page 160 for details
- Receptacles use Hi-Rel, 3-finger BeCu #11 contact rated at 3 amps. See page 251 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

Single Row Header, Left Hand Footprint, Odd or Even # of Pins	
FIG. 1L	850-XX-0-30-001000 Specify number of pins 02-50
Single Row Header, Right Hand Footprint, Even # of Pins	
FIG. 1R	850-XX-0-30-002000 Specify number of pins 02-50
Double Row Header, Even # of Pins	
FIG. 2	852-XX-30-001000 Specify number of pins 004-100
SPECIFY PLATING CODE XX=	
Pin Plating	10 90 40
	0,25µm Au 5,08µm Sn/Pb 5,08µm Sn
Single Row Socket, Left Hand Footprint, Odd or Even # of Pins	
FIG. 3L	851-XX-0-30-001000 Specify number of pins 02-50
Single Row Socket, Right Hand Footprint, Even # of Pins	
FIG. 3R	851-XX-0-30-002000 Specify number of pins 02-50
Double Row Socket, Even # of Pins	
FIG. 4	853-XX-30-001000 Specify number of pins 004-100
RoHS-2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264	
SPECIFY PLATING CODE XX=	
Sleeve (Pin)	91 93 99 41 43 44
Contact (Clip)	5,08µm Sn/Pb 5,08µm Sn/Pb 5,08µm Sn/Pb 5,08µm Sn 5,08µm Sn 5,08µm Sn
	0,25µm Au 0,76µm Au 2,54µm Sn/Pb 0,25µm Au 0,76µm Au 2,54µm Sn

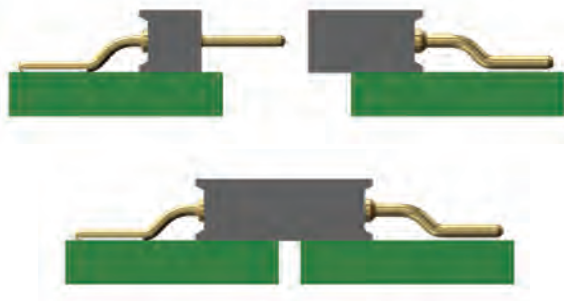
★ 44 Plating Non-Standard



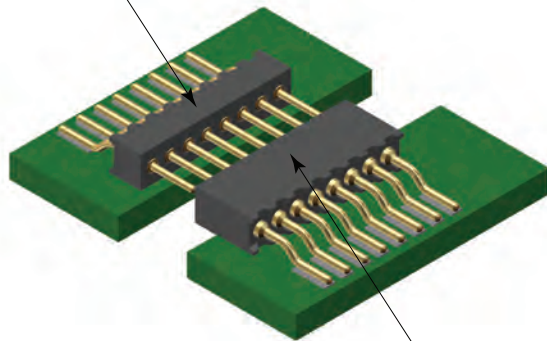
HORIZONTAL SMT PINS & CONNECTORS

VERSATILE CONNECTORS FOR HORIZONTAL & EDGE BOARD MATING APPLICATIONS

Z-Bend Style
SIP Header & Socket
HSMT (1,27 Grid)



850-10-0XX-40-001000
1,27 Grid (See Page 40)

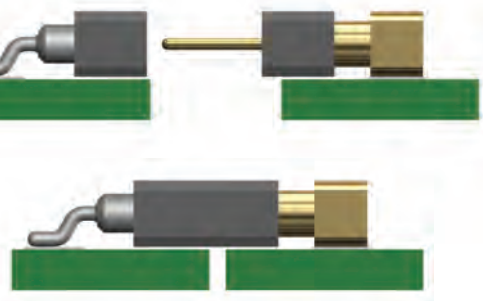


851-13-0XX-40-001000
1,27 Grid (See Page 40)

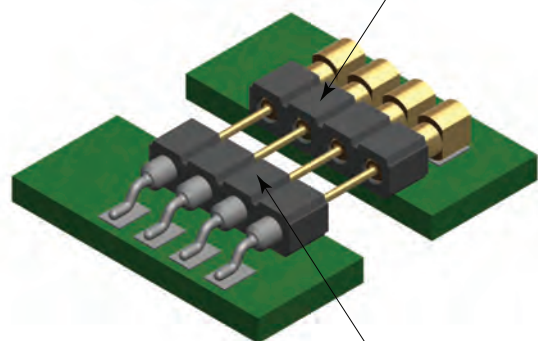
Z-Bend Style
SIP Socket HSMT
(2,54 Grid)



Block Style
SIP Header HSMT
(2,54 Grid)



351-10-1XX-40-002000
2,54 Grid (See Page 50)



310-43-1XX-40-023000
2,54 Grid (See Page 50)

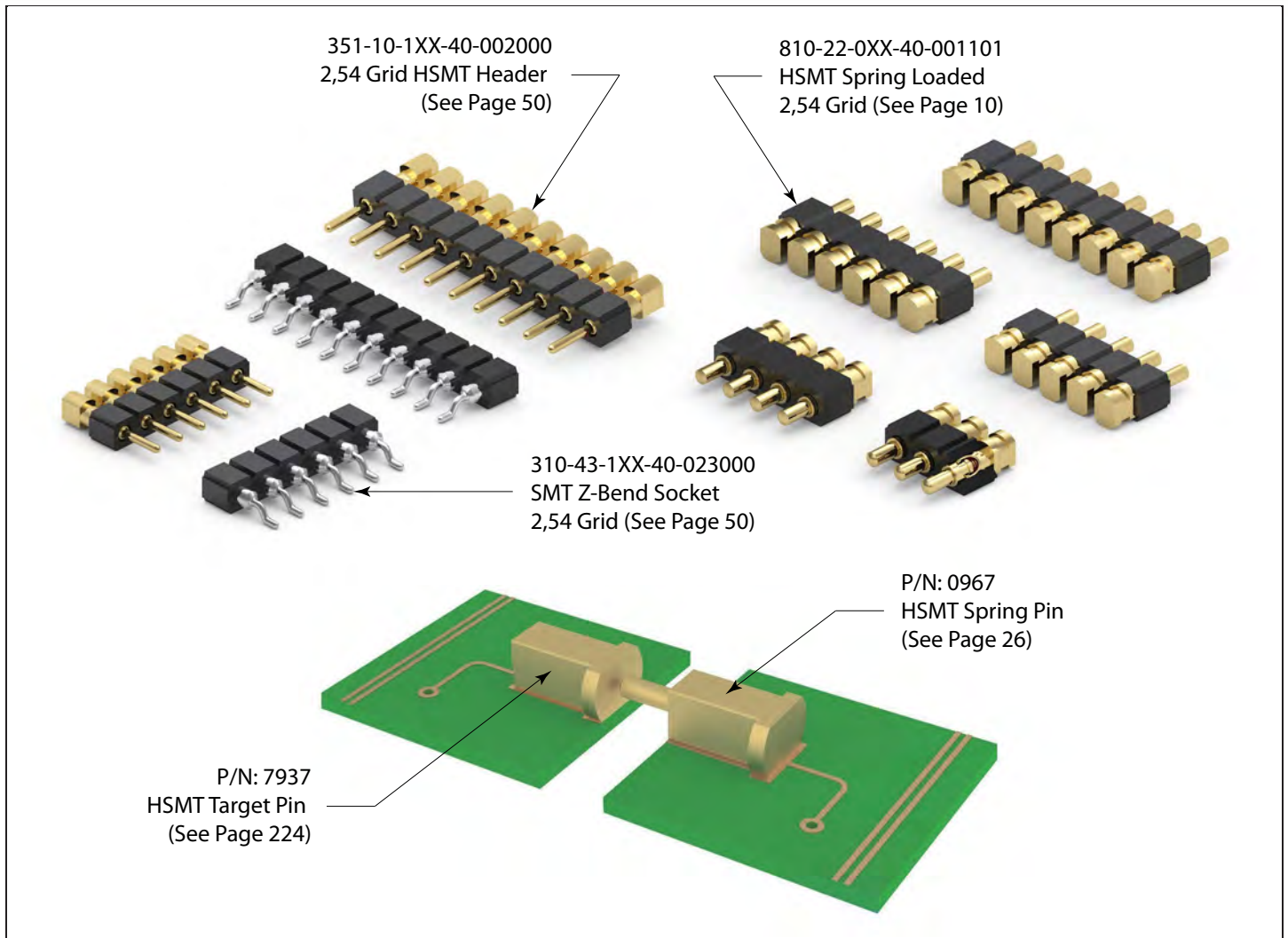
Mill-Max Mfg. offers a complete line of Horizontal Surface Mount products including headers and sockets on 1,27mm and 2,54mm grid, discrete spring-loaded and mating target pins and spring-loaded connector strips.

For low profile IO applications surface mount SIP sockets and headers strips are assembled parallel to the board surface. They are ideal for placement near the board edge for easy access test connections & creating pluggable adapter modules which can sit perpendicular to the motherboard (mated to a vertical connector), effectively conserving precious board real estate.



HORIZONTAL SMT PINS & CONNECTORS

VERSATILE CONNECTORS FOR HORIZONTAL & EDGE BOARD MATING APPLICATIONS

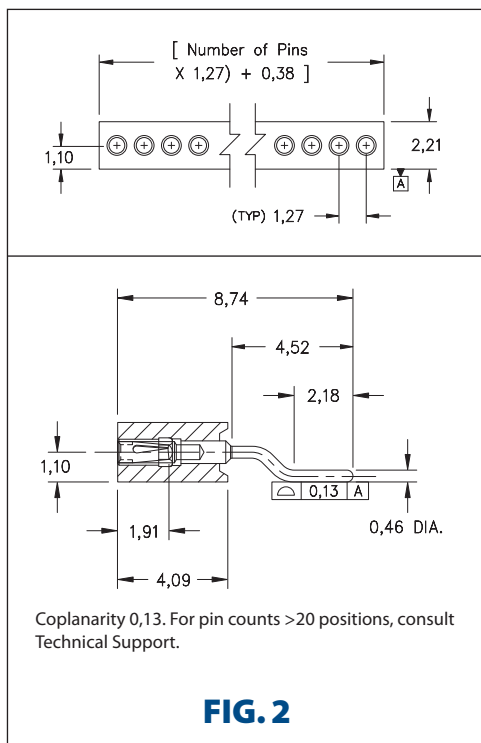
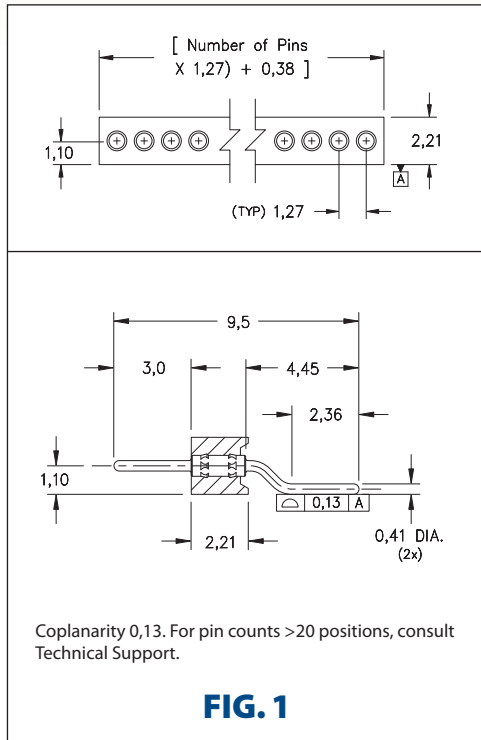


Mill-Max Mfg's #0967 (featured above) is a low profile, horizontal, surface mount spring pin designed for edge board interface applications: board-to-board or device-to-board. The #0967 mounts parallel to the P.C. board so that the plunger travel is horizontal to the board surface. The above board height of 2,54mm provides a low profile for tight packaging requirements. Typically mounted on the edge of the P.C. board, it can be mated with a board running perpendicular to it, or parallel P.C. boards can be daisy-chained together by using the Mill-Max Mfg. #7937 horizontal SMT target pin and #0967 on opposing boards.

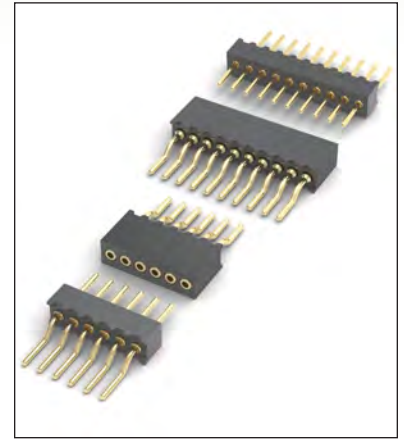


INTERCONNECTS

SERIES 850 & 851 • 1,27 GRID HORIZONTAL SURFACE MOUNT Z-BEND HEADERS & SOCKETS • SINGLE ROW STRIPS



- Series 850 horizontal surface mount headers have 0,41 dia. pluggable pins and Z-bend tails for SMT soldering to the P.C.B. (MM #4006-1). See page 208 for details
- Series 851 horizontal Surface Mount Z-Bend sockets uses MM #4890-1 receptacles that accept pin diameters from 0,38 - 0,51. See page 160 for details
- Receptacles use Hi-Rel, 3-finger BeCu #11 contact rated at 3 amps. See page 251 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 850...001 Single Row Surface Mount Z-Bend Header						
	850-10-0-40-001000 Specify number of pins 02-20						
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Enviromental Data, See page 264							
SPECIFY PLATING CODE XX=		10					
Pin Plating 		0,25µm Au					

FIG. 2	Series 851...001 Single Row Surface Mount Z-Bend Socket						
	851-XX-0-40-001000 Specify number of pins 02-20						
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Enviromental Data, See page 264							
SPECIFY PLATING CODE XX=		11	13				
Sleeve (Pin) 		0,25µm Au	0,25µm Au				
Contact (Clip) 		0,25µm Au	0,76µm Au				

INTERCONNECTS

SERIES 340 & 399 • 1,27 AND 2,54 GRID SURFACE MOUNT HEADERS & SOCKETS • SINGLE ROW STRIPS

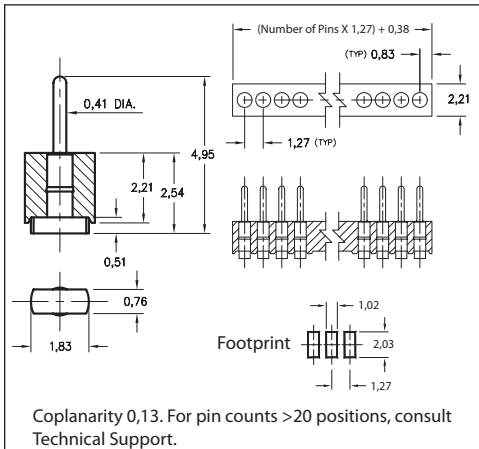


FIG. 1

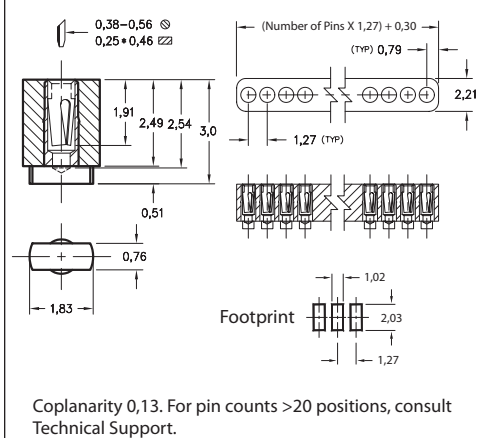


FIG. 2

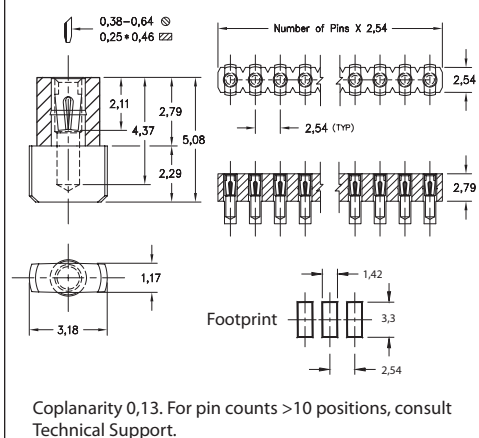
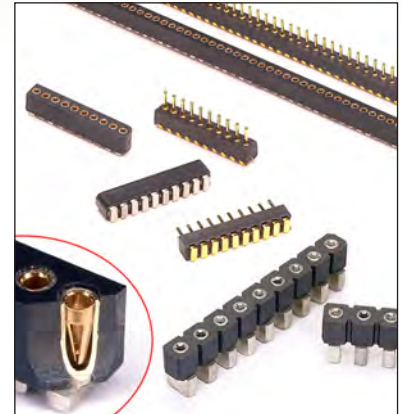


FIG. 3

- Series 340 and 399 interconnects are single row headers & sockets having unique surface mount "block" terminals
- "Block" termination makes the interconnects "self standing". This also minimizes profile and reduces the footprint compared with traditional "gullwing" designs
- Series 399 is a matched pair of 1,27 pitch sockets and headers with a mated height of only 5,54
- Series 340 is a 2,54 pitch SIP socket using a Hi-Rel, 4-finger BeCu #30 contact rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering processes

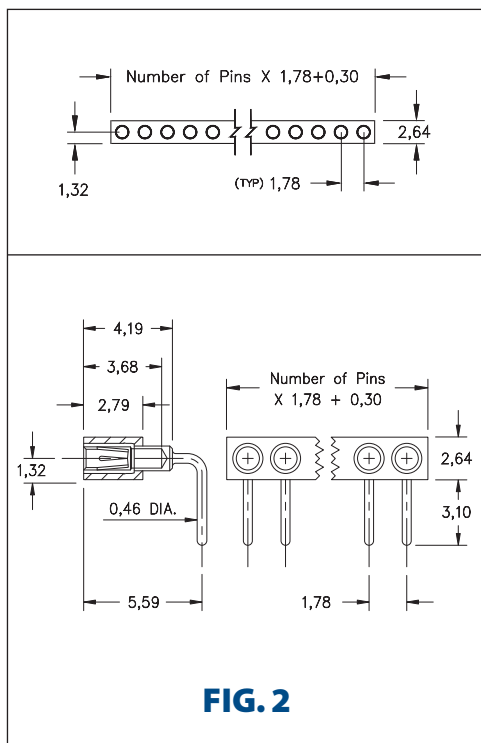
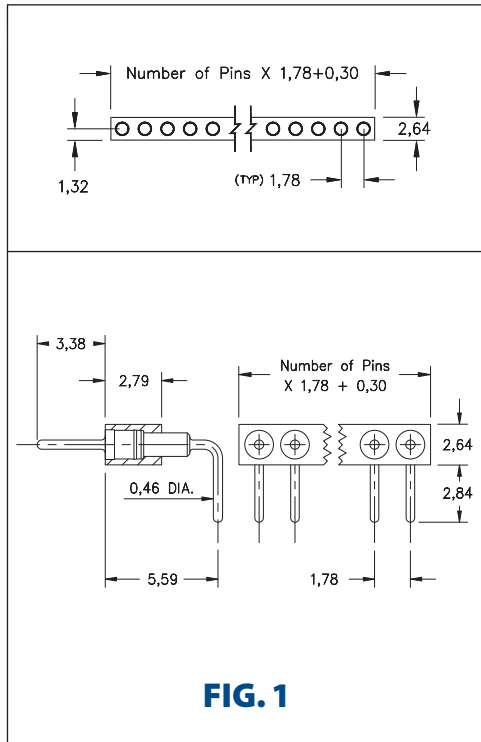


ORDERING INFORMATION

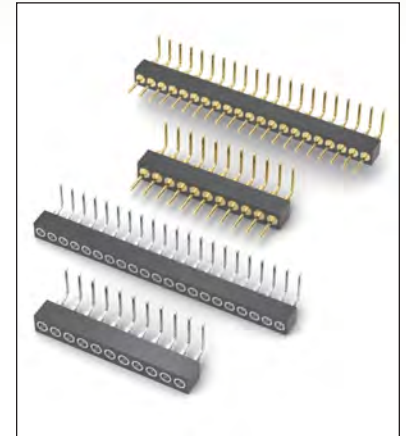
FIG. 1	Series 399...310 Single Row 1,27 Grid Header	
	399-10-0	-00-310000
	Specify number of pins	02-50
RoHS-2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264		
SPECIFY PLATING CODE XX=		
Pin Plating	10	0,25µm Au
FIG. 2	Series 399...300 Single Row 1,27 Grid Socket	
	399-XX-0	-21-300000
	Specify number of pins	02-50
RoHS-2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264		
SPECIFY PLATING CODE XX=		
Sleeve (Pin)	91	41
Contact (Clip)	0,25µm Sn/Pb	0,25µm Sn
FIG. 3	Series 340...780 Single Row 2,54 Grid Socket	
	340-XX-1	-30-780100
	Specify number of pins	02-64
RoHS-2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264		
SPECIFY PLATING CODE XX=		
Sleeve (Pin)	99	44
Contact (Clip)	5,08µm Sn/Pb	5,08µm Sn
	2,54µm Sn/Pb	2,54µm Sn

INTERCONNECTS

SERIES 870 & 871 • 1,78 GRID (0,46 DIA.) PINS, RIGHT ANGLE HEADERS & SOCKETS • SINGLE ROW STRIPS



- Series 870 and 871 Interconnects feature space saving 1,78 pitch
- Series 870 uses MM #3790-0 pins. See page 209 for details
- Series 871 uses MM #1805 receptacles and accept pin diameters from 0,38 - 0,64. See page 169 for details
- Receptacles use Hi-Rel, 4-finger BeCu #30 contact rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 870...20-001		Right Angle Pin Header	
	870-10-0-20-001000 Specify number of pins 02-21			
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Enviromental Data, See page 264				
SPECIFY PLATING CODE XX=		10		
Pin Plating		0,25µm Au		

FIG. 2	Series 871...20-001	Right Angle Socket				
	871-XX-0-20-001000 Specify number of pins 02-21					
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Enviromental Data, See page 264						
SPECIFY PLATING CODE XX=					41	43
Sleeve (Pin)					5,08µm Sn	5,08µm Sn
Contact (Clip)					0,25µm Au	0,76µm Au



INTERCONNECTS

SERIES 830, 831, 832, 833 • 2mm GRID HEADERS AND SOCKETS • SINGLE AND DOUBLE ROW STRIPS

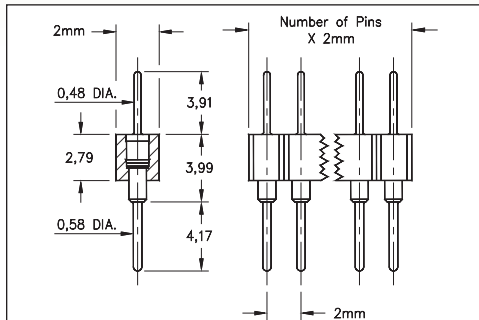


FIG. 1

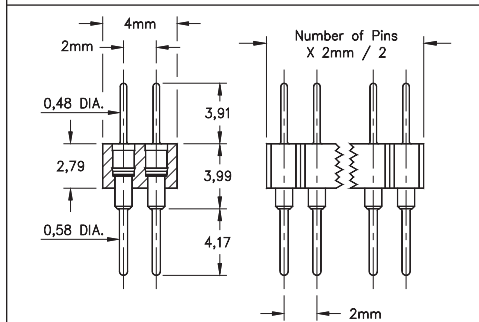


FIG. 2

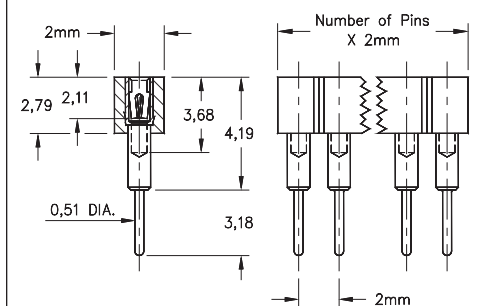


FIG. 3

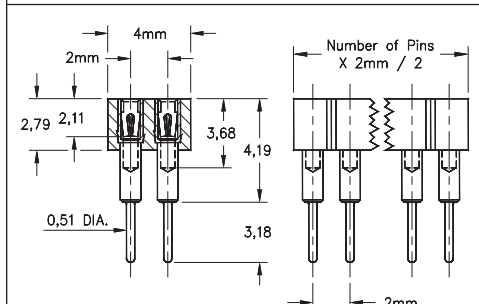


FIG. 4

- Series 830 single & double row interconnects have 2mm pin spacing and permit board stacking as low as 8,18
- Pin headers (830 & 832 series) use MM #5012 pins. See page 208 for details
- Sockets (831 & 833 series) use MM #1802 receptacles and accept pin diameters from 0,38 - 0,64. See page 169 for details
- Contact is rated at 3 amps
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 830...001	Single Row Pin Header		
	830-XX-0-10-001000 Specify number of pins 01-50			
FIG. 2	Series 832...001	Double Row Pin Header		
	832-XX--10-001000 Specify number of pins 002-100			
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264				
SPECIFY PLATING CODE XX=		10 	90	40 
Pin Plating		0,25µm Au	5,08µm Sn/Pb	5,08µm Sn

FIG. 3	Series 831...001	Single Row Socket
	831-XX-0-10-001000 Specify number of pins 01-50	
FIG. 4	Series 833...001	Double Row Socket
	833-XX--10-001000 Specify number of pins 002-100	
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264		
SPECIFY PLATING CODE XX=		
Sleeve (Pin)		91 93 41  43 
Contact (Clip)		0,25µm Au 0,76µm Au 0,25µm Au 0,76µm Au



**SERIES 830, 831, 832, 833 • 2mm GRID GULL WING SURFACE MOUNT
HEADERS AND SOCKETS • SINGLE AND DOUBLE ROW STRIPS**

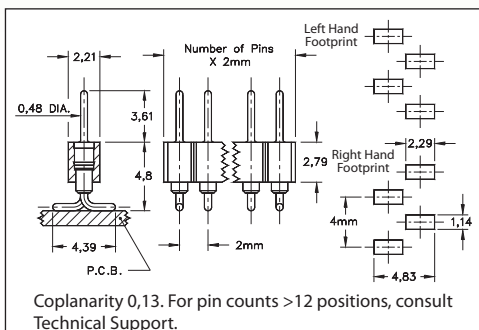


FIG. 1

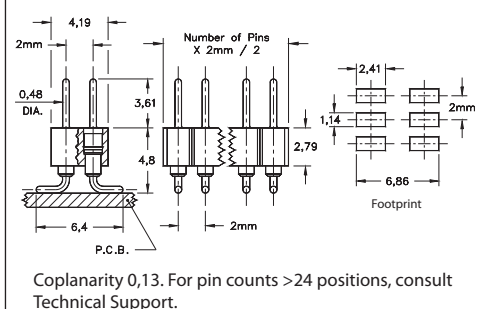


FIG. 2

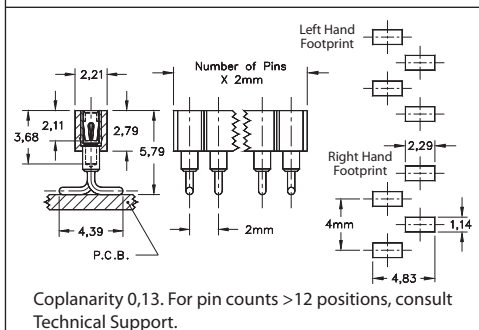


FIG. 3

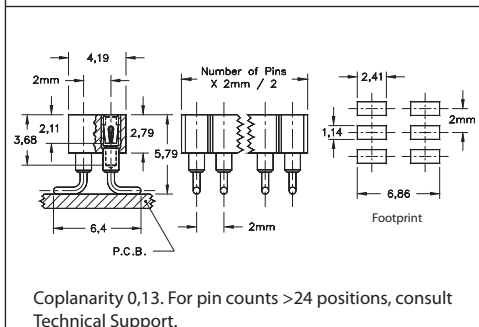
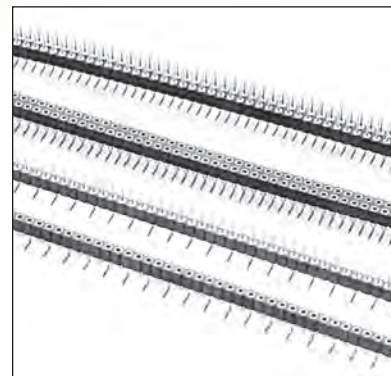
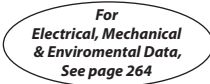


FIG. 4

- Headers (830 & 832) use MM #6218 pins. See page 208 for details
- Sockets (831 & 833) use MM #1802 receptacles and accept pin diameters from 0,38 - 0,64. See page 169 for details
- Coplanarity 0,13 (Single Row max 12 pins; Double Row max 24 pins) For higher pin counts, contact Technical Support
- Contact is rated at 3 amps
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1L	Single Row Header, Left Hand Footprint, Odd or Even # of pins							
	830-XX-0--30-001000 Specify number of pins 01-50							
FIG. 1R	Single Row Header, Right Hand Footprint, Even # of pins							
	830-XX-0--30-002000 Specify number of pins 02-50							
FIG. 2	Double Row Header, Even # of pins							
	832-XX--30-001000 Specify number of pins 004-100							
SPECIFY PLATING CODE XX=		10 	90	40 				
Pin Plating 		0,25µm Au	5,08µm Sn/Pb	5,08µm Sn				
FIG. 3L	Single Row Socket, Left Hand Footprint, Odd or Even # of pins							
	831-XX-0--30-001000 Specify number of pins 01-50							
FIG. 3R	Single Row Socket, Right Hand Footprint, Even # of pins							
	831-XX-0--30-002000 Specify number of pins 02-50							
FIG. 4	Double Row Socket, Even # of pins							
	833-XX--30-001000 Specify number of pins 004-100							
 RoHS - 2 2011/65/EU XX=Plating Code See Below  For Electrical, Mechanical & Enviromental Data, See page 264 								
SPECIFY PLATING CODE XX=			91	93		41 	43 	
Sleeve (Pin) 			5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn	
Contact (Clip) 			0,25µm Au	0,76µm Au		0,25µm Au	0,76µm Au	

INTERCONNECTS

SERIES 830, 831, 832, 833 • 2mm GRID RIGHT ANGLE HEADERS AND SOCKETS • SINGLE AND DOUBLE ROW STRIPS

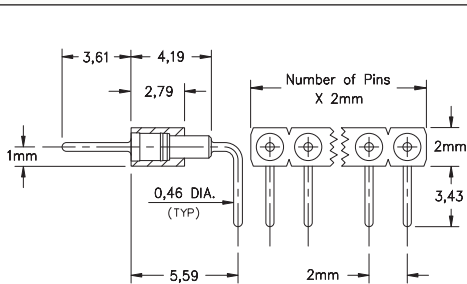


FIG. 1

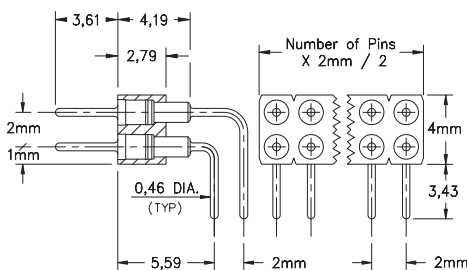


FIG. 2

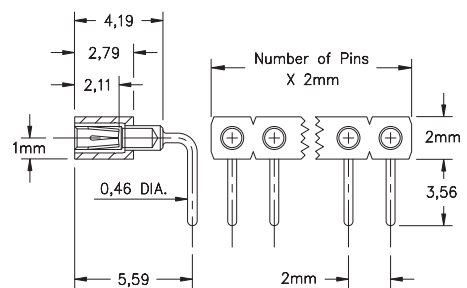


FIG. 3

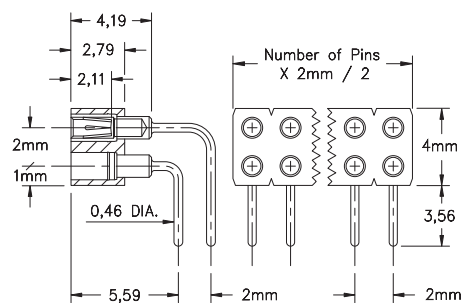


FIG. 4

- Series 830 & 832 use MM #3790 & MM #3796 pins. See page 209 for details
- Series 831 & 833 use MM #1805 and MM #3805 receptacles and accept pin diameters from 0,38 - 0,64. See page 169 for details
- Receptacles use Hi-Rel, Low force, 6-finger BeCu #32 contact rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 830...001		Single Row Right Angle Header		
	830-10-0-__-20-001000 Specify number of pins 01-50				
FIG. 2	Series 832...001		Double Row Right Angle Header		
	832-10-__-__-20-001000 Specify number of pins 002-100				
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264					
SPECIFY PLATING CODE XX=		10			
Pin Plating 		0,25µm Au			

FIG. 3	Series 831...001		Single Row Right Angle Socket			
	831-XX-0-20-001000 Specify number of pins 01-50					
FIG. 4	Series 833...001		Double Row Right Angle Socket			
	833-43-20-001000 Specify number of pins 002-100					
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264						
SPECIFY PLATING CODE XX=					41	43
Sleeve (Pin)					5,08µm Sn	5,08µm Sn
Contact (Clip)					0,25µm Au	0,76µm Au

INTERCONNECTS

SERIES 301, 310, 350, 399 • 2,54 GRID (0,46 DIA.) PINS, STRAIGHT AND RIGHT ANGLE • SINGLE ROW STRIPS

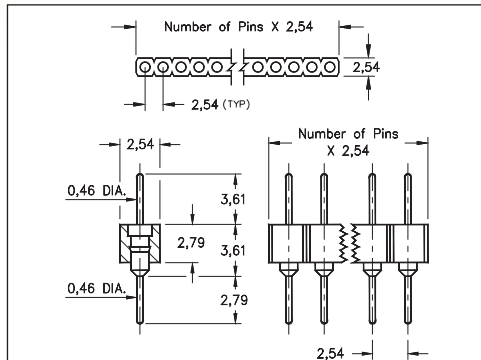


FIG. 1

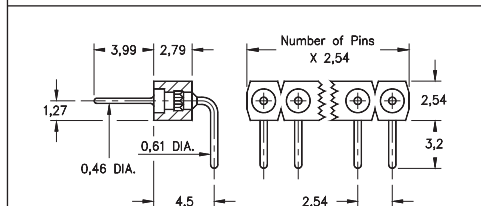


FIG. 2

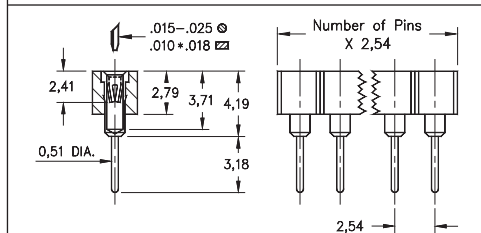


FIG. 3

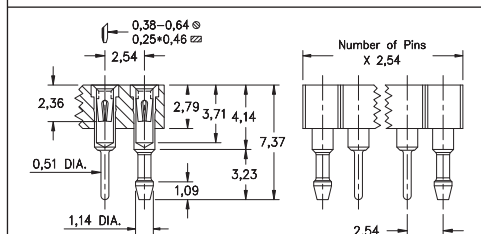


FIG. 4

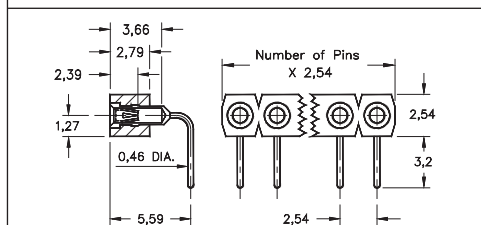


FIG. 5

- Series 3XX are available with straight and right angle solder tails
- Series 350 & 399...009 use MM #3404 and #5011 pins. See pages 212 & 214 for details
- Series 301, 310 & 399...003 use MM #0156, #1001 & #1103 receptacles. See pages 165 and 166 for details
- Receptacles use Hi-Rel, 4-finger #30 BeCu contact rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 350...006		Straight Pin Header	
	350-XX-1-00-006000 Specify number of pins 01-64			
FIG. 2	Series 399...009		Right Angle Pin Header	
	399-XX-1-10-009000 Specify number of pins 02-64			
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Enviromental Data, See page 264				
SPECIFY PLATING CODE XX= 10 90 40				
Pin Plating 0,25µm Au 5,08µm Sn/Pb 5,08µm Sn				
FIG. 3	Series 310...001		Solder Tail Socket	
	310-XX-1-41-001000 Specify number of pins 01-64			
FIG. 4	Series 301...056		Socket with Retention Pins	
	301-43-1-41-560000 Specify number of pins 03-64			
FIG. 5	Series 399...003		Right Angle Socket	
	399-XX-1-10-003000 Specify number of pins 02-64			
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Enviromental Data, See page 264				
SPECIFY PLATING CODE XX= 11 13 91 93 99 41 43 44				
Sleeve (Pin) 0,25µm Au 0,25µm Au 5,08µm Sn/Pb 5,08µm Sn/Pb 5,08µm Sn/Pb 5,08µm Sn 5,08µm Sn 5,08µm Sn				
Contact (Clip) 0,25µm Au 0,76µm Au 0,25µm Au 0,76µm Au 2,54µm Sn/Pb 0,25µm Au 0,76µm Au 2,54µm Sn				

★ 41, 91 & 99 Platings Non-Standard



Mill-Max Mfg. Corp. • 190 Pine Hollow Road, P.O. Box 300, Oyster Bay, NY 11771 • 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com

INTERCONNECTS

SERIES 410, 450, 499 • 2,54 GRID (0,46 DIA.) PINS, STRAIGHT AND RIGHT ANGLE • DOUBLE ROW STRIPS

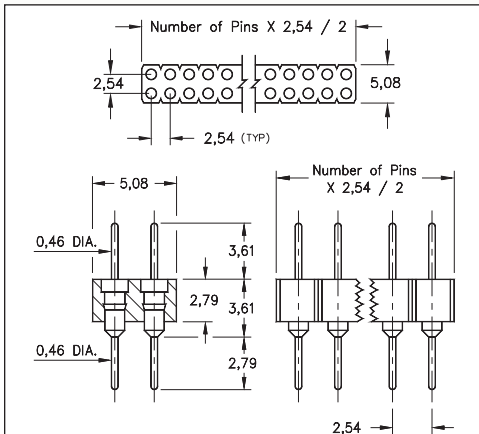


FIG. 1

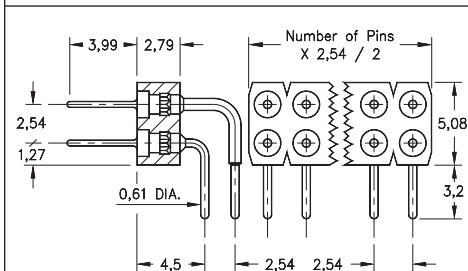


FIG. 2

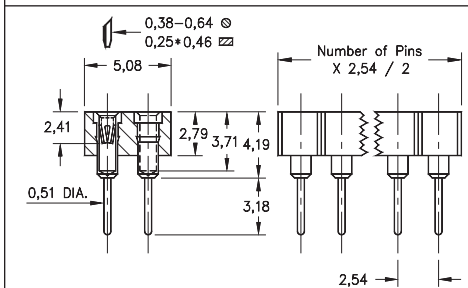


FIG. 3

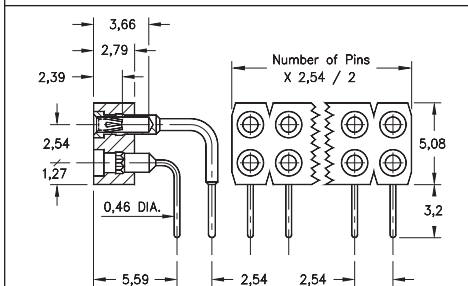


FIG. 4

- Series 4XX are available with straight and right angle solder tails
- Series 450 & 499...009 use MM #3404 and #5011/5113 pins. See pages 212 and 214 for details
- Series 410 & 499...003 use MM #1001 and #1103/1602 receptacles. See pages 165, 166 and 167 for details
- Receptacles use Hi-Rel, 4-finger #30 BeCu contact rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 450...006	Straight Pin Header			
	450-XX-2 -00-006000 Specify number of pins 02-64				
FIG. 2	Series 499...009	Right Angle Pin Header			
	499-10-2 -10-009000 Specify number of pins 02-64				
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264					
SPECIFY PLATING CODE XX=		10 	90	40 	
Pin Plating 		0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

FIG. 3	Series 410...001	Solder Tail Socket						
	410-XX-2 -41-001000 Specify number of pins 02-64							
FIG. 4	Series 499...003	Right Angle Socket						
	499-XX-2 -10-003000 Specify number of pins 02-64							
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Enviromental Data, See page 264								
SPECIFY PLATING CODE XX=								
Sleeve (Pin)		11 	13 	91	93	41 	43 	
Contact (Clip)		0,25µm Au	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	
		0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	



INTERCONNECTS

SERIES 329, 380, 429, 480 • 2,54 GRID SOLDER CUP HEADERS AND SOCKETS • SINGLE AND DOUBLE ROW STRIPS

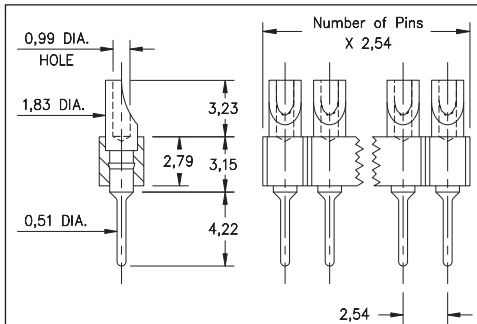


FIG. 1

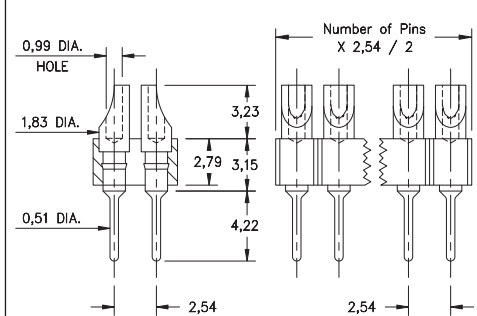


FIG. 2

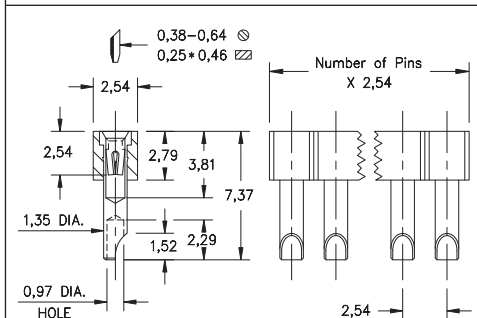


FIG. 3

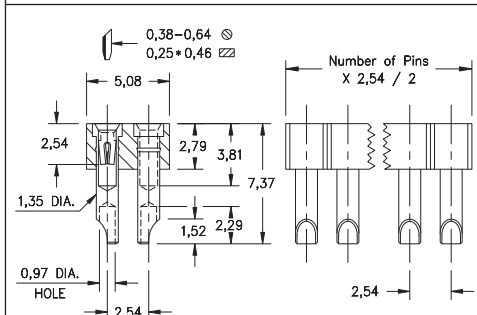
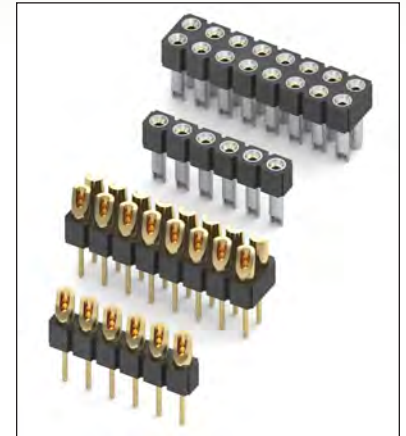


FIG. 4

- Series 380 & 480 use MM #8000 pins. See page 216 for details
- Series 329 & 429 use MM #2954 receptacles and accept pin diameters from 0,38 - 0,64. See page 171 for details
- Series 329 & 429 receptacles use Hi-Rel, 4-finger BeCu #30 contact rated at 3 amps. See page 253 for details
- Soldercups are pre-aligned
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 380...001 Single Row Solder Cup / Solder Tail	
	380-XX-1	-00-001000
	Specify number of pins	01-64
FIG. 2	Series 480...001 Double Row Solder Cup / Solder Tail	
	480-10-2	-00-001000
	Specify number of pins	02-64
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264		
SPECIFY PLATING CODE XX=		
Pin Plating	10	90
	0,25µm Au	5,08µm Sn/Pb
		5,08µm Sn

FIG. 3	Series 329...540 Single Row Solder Cup Sockets	
	329-XX-1	-41-540000
	Specify number of pins	01-64
FIG. 4	Series 429...540 Double Row Solder Cup Sockets	
	429-XX-2	-41-540000
	Specify number of pins	02-64
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264		
SPECIFY PLATING CODE XX=		
Sleeve (Pin)	11	13
	0,25µm Au	0,25µm Au
Contact (Clip)	41	43
	0,25µm Au	0,76µm Au

INTERCONNECTS

SERIES 329, 340, 414, 429 • 2,54 GRID SURFACE MOUNT HEADERS AND SOCKETS • SINGLE AND DOUBLE ROW STRIPS

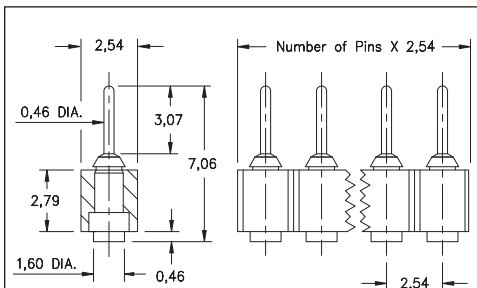


FIG. 1

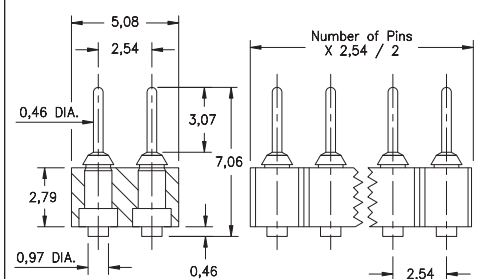


FIG. 2

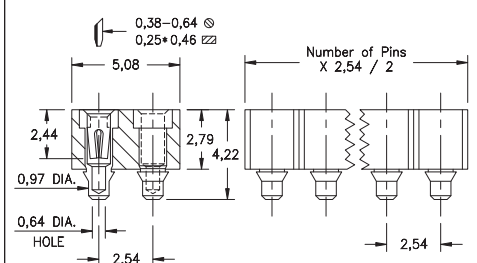
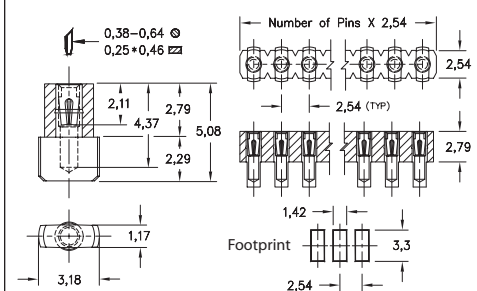


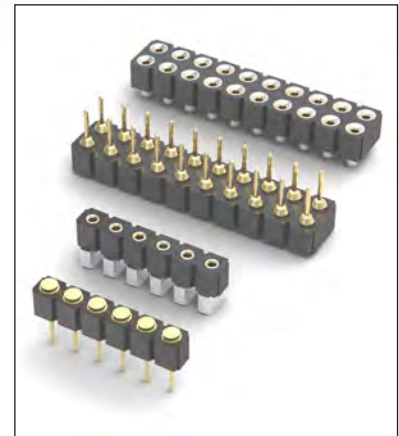
FIG. 3



Coplanarity 0,13. For pin counts >10 positions, consult Technical Support.

FIG. 4

- Series 329 and 429 pin interconnects feature space saving, pad style SMT termination using MM #2956-X pins. See page 218 for details
- Series 429 and 414 combine for a mated height of 8,20
- Series 340 and 414 surface mount sockets use MM #4078 and #1434 receptacles. See pages 162 and 167 for details
- Series 340 and 414 receptacles use Hi-Rel, 4-finger BeCu #30 contacts rated at 3 amps. Receptacles accept 0,38 - 0,64 diameter pins. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 329...560 Single Row Surface Mount Pin Header	
	329-10-1	-00-560000
	Specify number of pins	02-64
FIG. 2	Series 429...560 Double Row Surface Mount Pin Header	
	429-10-2	-00-560000
	Specify number of pins	04-72
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264		
SPECIFY PLATING CODE XX=		
Pin Plating 		
	10 	0,25µm Au

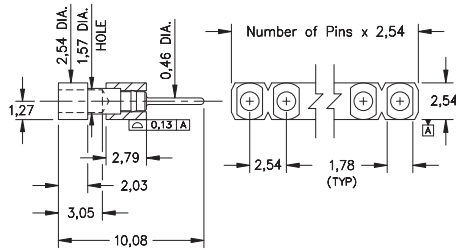
FIG. 3	Series 414...117 Double Row Surface Mount Socket							
	414-XX-2-41-117000 Specify number of pins 04-72							
FIG. 4	Series 340...780 Single Row Surface Mount Socket							
	340-XX-1-30-780100 Specify number of pins 02-64							
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264								
SPECIFY PLATING CODE XX=					99	41	43	44
Sleeve (Pin)					5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)					2,54µm Sn/Pb	0,25µm Au	0,76µm Au	2,54µm Sn



INTERCONNECTS

SERIES 310, 330, 351 • 2,54 GRID (0,46 DIA. PINS), SURFACE MOUNT HEADERS AND SOCKETS • SINGLE ROW STRIPS

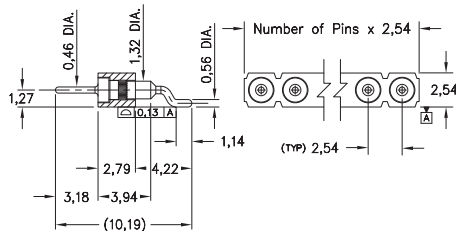
Mates with Series 310...023 Surface Mount Z-Bend Socket (See Fig. 3)



Coplanarity 0,13. For pin counts >10 positions, consult Technical Support.

FIG. 1

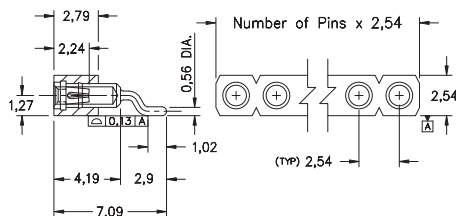
Mates with Series 310...023 Surface Mount Z-Bend Socket (See Fig. 3)



Coplanarity 0,13. For pin counts >10 positions, consult Technical Support.

FIG. 2

Mates with Series 351...002 and 330...027 Surface Mount Header (See Fig. 1 & 2)



Coplanarity 0,13. For pin counts >10 positions, consult Technical Support.

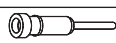
FIG. 3

- Series 351 horizontal surface mount headers are available with 0,46 dia. pluggable pins (MM #5102). Series 330 horizontal surface mount z-bend headers use MM #3027 pins. See page 224 for details
- Series 310 horizontal surface mount Z-Bend sockets uses MM #1023 receptacles that accept pin diameters from 0,38 - 0,64. See pages 171 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- Ideal for daisy chaining parallel boards



ORDERING INFORMATION

FIG. 1	Series 351...002 0,46 Dia. Surface Mount Header	
	351-10-1-40-002000 Specify number of pins 02-10	
FIG. 2	Series 330...027 0,46 Dia. Surface Mount Z-Bend Header	
	330-XX-1-40-027000 Specify number of pins 02-10	
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Enviromental Data, See page 264		
SPECIFY PLATING CODE XX=		
Pin Plating	10 	40 
	0,25µm Au	5,08µm Sn

FIG. 3	Series 310...023 0,46 Dia. Surface Mount Z-Bend Socket							
	310-XX-1-40-023000 Specify number of pins 02-10							
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Enviromental Data, See page 264								
SPECIFY PLATING CODE XX=			91	93	99	41 	43 	44 
Sleeve (Pin) 			5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip) 			0,25µm Au	0,76µm Au	2,54µm Sn/Pb	0,25µm Au	0,76µm Au	2,54µm Sn



INTERCONNECTS

SERIES 310, 350, 410, 450 • 2,54 GRID (0,46 DIA. PINS), SMT GULL WING HEADERS & SOCKETS • SINGLE AND DOUBLE ROW STRIPS

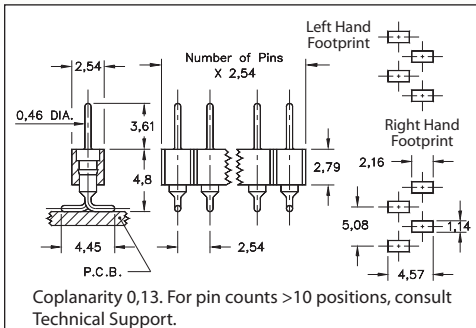


FIG. 1

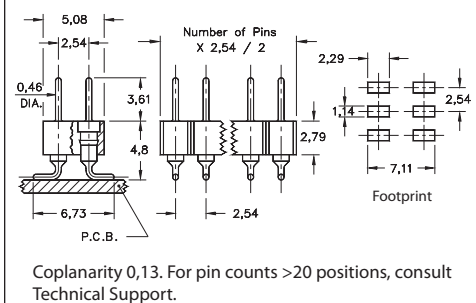


FIG. 2

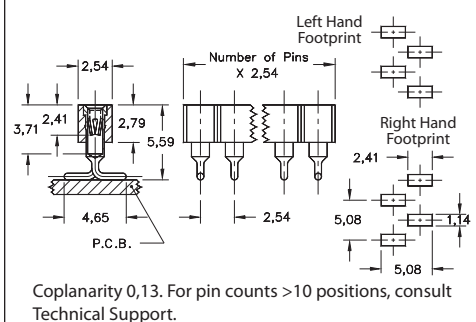


FIG. 3

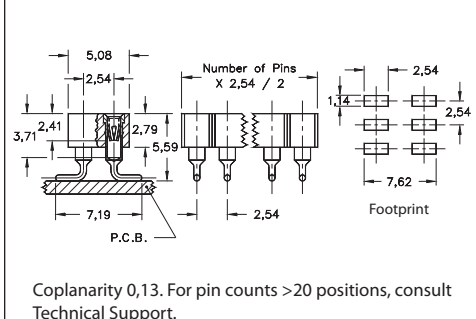
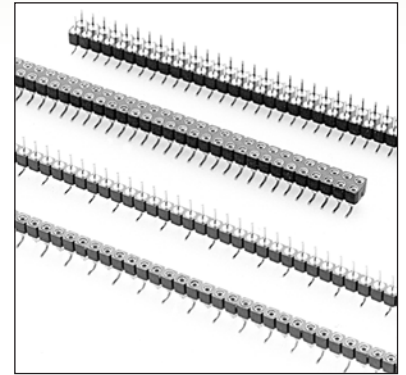


FIG. 4

- Headers (350 & 450) use MM #3404 pins. See page 212 for details
- Sockets (310 & 410) use MM #1005 receptacles and accept pin diameters from 0,38 - 0,64. See page 166 for details
- Contact is rated at 3 amps
- Coplanarity 0,13 (single row max. 10 pins; double row max. 20 pins). For higher pin counts, contact Technical Support
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1L	Single Row Header, Left Hand Footprint, Odd or Even # of pins							
	350-XX-1-00-106000 Specify number of pins 02-64							
FIG. 1R	Single Row Header, Right Hand Footprint, Even # of pins							
	350-XX-1-00-107000 Specify number of pins 02-64							
FIG. 2	Double Row Header, Even # of pins							
	450-XX-2-00-106000 Specify number of pins 04-72							
SPECIFY PLATING CODE XX=		10 	90	40 				
Pin Plating 		0,25µm Au	5,08µm Sn/Pb	5,08µm Sn				
FIG. 3L	Single Row Socket, Left Hand Footprint, Odd or Even # of pins							
	310-XX-1-41-105000 Specify number of pins 02-64							
FIG. 3R	Single Row Socket, Right Hand Footprint, Even # of pins							
	310-XX-1-41-107000 Specify number of pins 02-64							
FIG. 4	Double Row Socket, Even # of pins							
	410-XX-2-41-105000 Specify number of pins 04-72							
 RoHS-2 2011/65/EU  XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264								
SPECIFY PLATING CODE XX=			91	93		41 	43 	
Sleeve (Pin) 			5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn	
Contact (Clip) 			0,25µm Au	0,76µm Au		0,25µm Au	0,76µm Au	

INTERCONNECTS

SERIES 350, 450, 801, 803 • 2,54 GRID (0,64 DIA. PINS), LOW PROFILE HEADERS & VERSATILE SOCKETS • SINGLE & DOUBLE ROW STRIPS

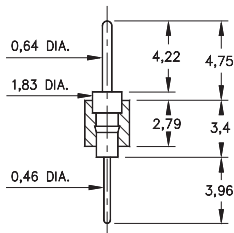


FIG. 1

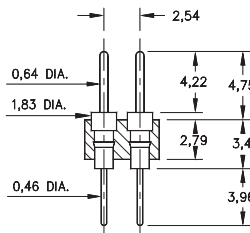


FIG. 2

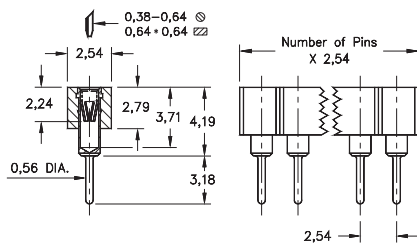


FIG. 3

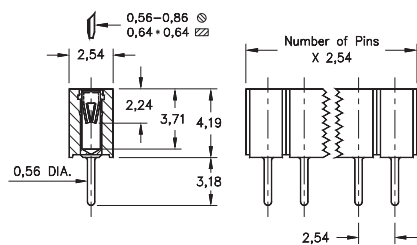


FIG. 4

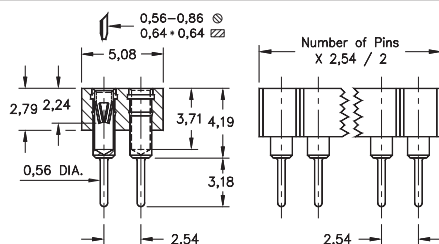


FIG. 5

- Series 350 and 450 single and double row pin headers use MM #0290 pins. See page 215 for details
- Series 801 and 803 single and double row low profile sockets use MM #1303 receptacles. See page 180 for details
- Series 801 and 803 receptacles use Hi-Rel, 6-finger BeCu #16 contact rated at 4.5 amps. Receptacles accept 0,64 diameter and 0,64 square pins. See page 256 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 350...001		Single Row 0,64 Pin / 0,46 Solder Tail			
	350-XX-1		-00-001000			
Specify number of pins		01-64				
FIG. 2	Series 450...001		Double Row 0,64 Pin / 0,46 Solder Tail			
	450-XX-2		-00-001000			
Specify number of pins		02-64				
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264						
SPECIFY PLATING CODE XX=		10	90	40		
Pin Plating 		0,25µm Au	5,08µm Sn/Pb	5,08µm Sn		
FIG. 3	Series 801...003		Low Profile Socket (short insulator)			
	801-XX-0		-10-003000			
Specify number of pins		01-64				
FIG. 4	Series 801...013		Low Profile Socket (long insulator)			
	801-XX-0		-10-013000			
Specify number of pins		01-36				
FIG. 5	Series 803...003		Double Row Low Profile Socket			
	803-XX-0		-10-003000			
Specify number of pins		02-72				
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Enviromental Data, See page 264						
SPECIFY PLATING CODE XX=				41	43	
Sleeve (Pin) 				5,08µm Sn	5,08µm Sn	
Contact (Clip) 				0,25µm Au	0,76µm Au	



INTERCONNECTS

SERIES 800, 801, 802, 803 • 2,54 GRID (0,76 DIA. PINS), LOW PROFILE HEADERS & VERSATILE SOCKETS • SINGLE & DOUBLE ROW STRIPS

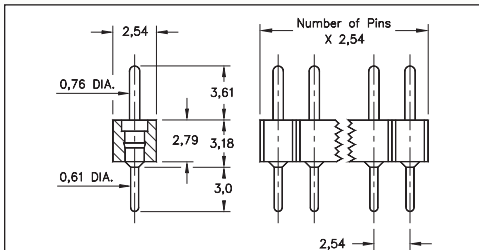


FIG. 1

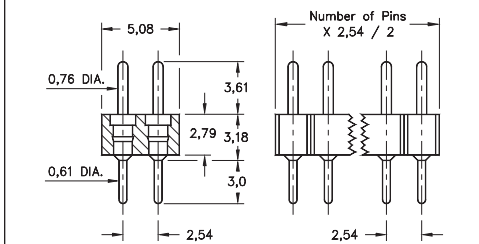


FIG. 2

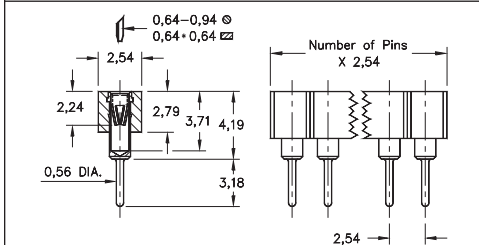


FIG. 3

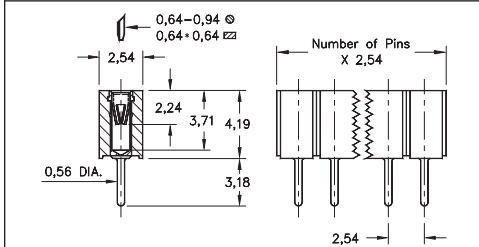


FIG. 4

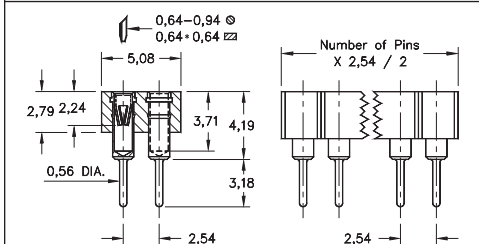


FIG. 5

- Series 800 and 802 single and double row pin headers use MM #5016 pins. See page 215 for details
- Series 801 and 803 single and double row sockets use MM #1303 receptacles. See page 180 for details
- Series 801 and 803 receptacles use Hi-Rel, 6-finger BeCu #47 contact rated at 4.5 amps. Receptacles accept 0,76 diameter and 0,64 square pins. See page 256 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 800...002 Single Row Low Profile Pin Header				
	800-XX-0 -10-002000 Specify number of pins 01-64				
FIG. 2	Series 802...002 Double Row Low Profile Pin Header				
	802-XX-0 -10-002000 Specify number of pins 04-64				
RoHS-2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264					
SPECIFY PLATING CODE XX=		10	90	40	
Pin Plating 		0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

FIG. 3	Series 801...002 Low Profile Socket (short insulator)							
	801-XX-0 -10-002000 Specify number of pins 01-64							
FIG. 4	Series 801...012 Low Profile Socket (long insulator)							
	801-XX-0 -10-012000 Specify number of pins 01-36							
FIG. 5	Series 803...002 Double Row Low Profile Socket							
	803-XX-0 -10-002000 Specify number of pins 04-72							
RoHS-2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264								
SPECIFY PLATING CODE XX=			91	93	99	41	43	
Sleeve (Pin) 			5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	
Contact (Clip) 			0,25µm Au	0,76µm Au	2,54µm Sn/Pb	0,25µm Au	0,76µm Au	



INTERCONNECTS

SERIES 800 & 801 • 2,54 GRID (0,76 DIA. PINS), STRAIGHT & RIGHT ANGLE HEADERS AND SOCKETS • SINGLE ROW STRIPS

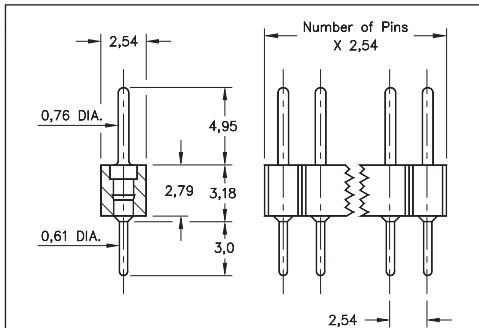


FIG. 1

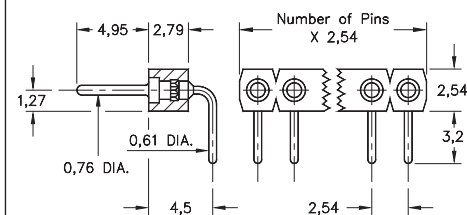


FIG. 2

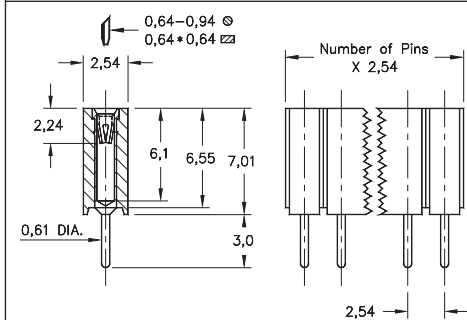


FIG. 3

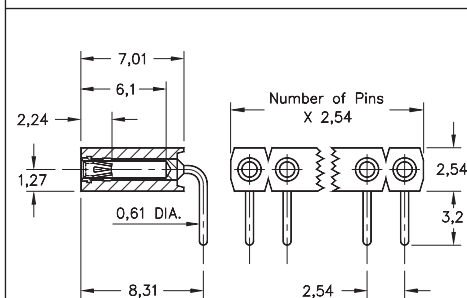
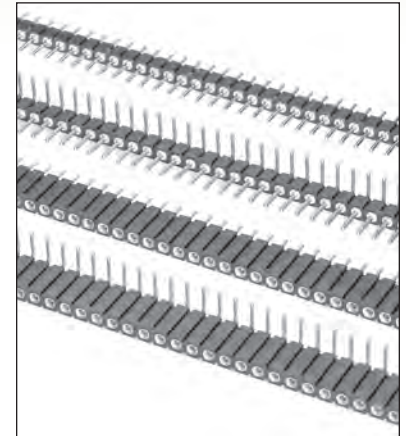


FIG. 4

- Pin interconnects available with straight MM #7007 or right angle MM #5005 solder tails. See page 215 for details
- Sockets are available with straight MM #1304 or right angle MM #1305 soldertails. See pages 177 and 179 for details
- MM #1304 and MM #1305 receptacles use Hi-Rel, 6-finger BeCu #47 contact rated at 4.5 amps. Receptacles accept 0,76 diameter and 0,64 square pins. See page 256 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 800...10-001	Straight Pin Header		
	800-XX-0	-10-001000		
	Specify number of pins	01-64		
FIG. 2	Series 800...20-001	Right Angle Pin Header		
	800-XX-0	-20-001000		
	Specify number of pins	02-64		
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Enviromental Data, See page 264				
SPECIFY PLATING CODE XX=		10	90	40
Pin Plating		0,25µm Au	5,08µm Sn/Pb	5,08µm Sn

FIG. 3	Series 801...10-001	Straight Socket					
	801-XX-0	-10-001000					
	Specify number of pins	01-50					
FIG. 4	Series 801...20-001	Right Angle Socket					
	801-XX-0	-20-001000					
	Specify number of pins	01-50					
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Enviromental Data, See page 264							
SPECIFY PLATING CODE XX=		91	93	99	41	43	44
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)		0,25µm Au	0,76µm Au	2,54µm Sn/Pb	0,25µm Au	0,76µm Au	2,54µm Sn

★ 44 Plating Non-Standard



INTERCONNECTS

SERIES 800 & 801 • 2,54 GRID (0,76 DIA. PINS), SOLDERLESS PRESS-FIT • SINGLE ROW STRIPS

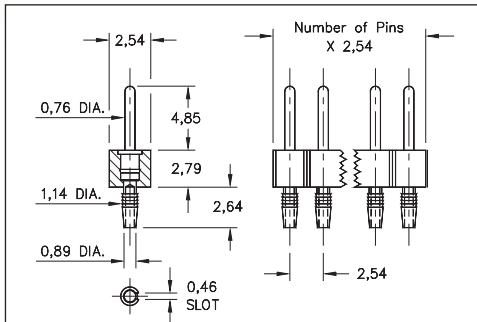


FIG. 1

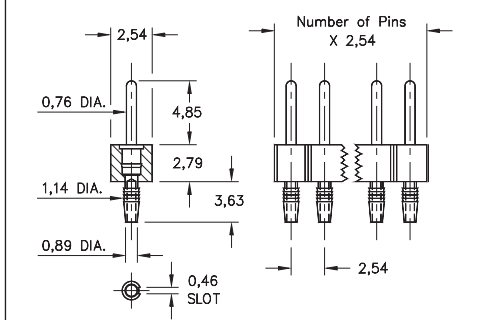


FIG. 2

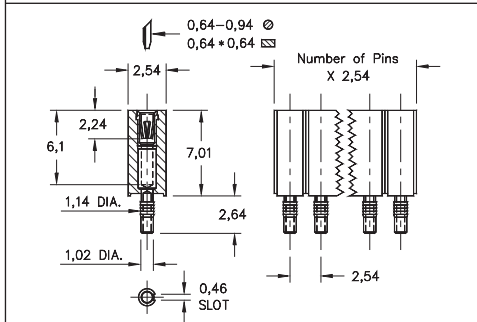


FIG. 3

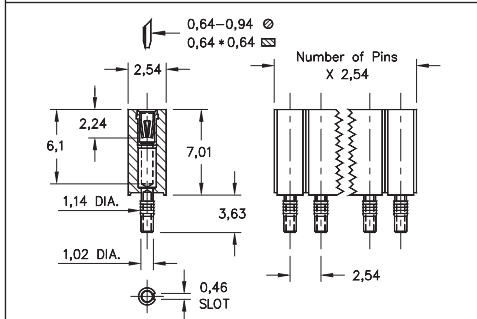


FIG. 4

- The unique compliant tail pins conform to $1,02 \pm 0,76$ finished hole without stressing inner layers. Patent No. 4,799,904
- Headers and sockets are available for board thicknesses of 1,52 - 2,54 and 2,29 - 3,3. See ordering information for details
- Series 800 pin headers use MM #5601 and #5602 compliant tail pins featuring a 0,76 dia. mating lead. See page 220 for details
- Series 801 sockets MM #4614 or #4615 use Hi-Rel, 6-finger BeCu #47 contact rated at 4.5 amps. Receptacles accept 0,76 diameter pins & 0,64 square pins. See pg. 256 for details
- Insulators are high temperature thermoplastic



ORDERING INFORMATION

FIG. 1	Compliant Tail Pin Header for 1,52 - 2,54 Thick Boards			
	800-XX-0-61-001000 Specify number of pins 01-64			
FIG. 2	Compliant Tail Pin Header for 2,29 - 3,3 Thick Boards			
	800-XX-0-62-001000 Specify number of pins 01-64			
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Enviromental Data, See page 264				
SPECIFY PLATING CODE XX=		10 	90	40 
Pin Plating 		0,25µm Au	5,08µm Sn/Pb	5,08µm Sn

FIG. 3	Compliant Tail Socket for 1,52 - 2,54 Thick Boards					
	801-XX-0-61-001000 Specify number of pins 01-50					
FIG. 4	Compliant Tail Socket for 2,29 - 3,3 Thick Boards					
	801-XX-0-62-001000 Specify number of pins 01-50					
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264						
SPECIFY PLATING CODE XX=		91	93	99	41 	43 
Sleeve (Pin) 		5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn
Contact (Clip) 		0,25µm Au	0,76µm Au	2,54µm Sn/Pb	0,25µm Au	0,76µm Au

INTERCONNECTS

SERIES 802 & 803 • 2,54 GRID (0,76 DIA. PINS), SOLDERLESS PRESS-FIT • DOUBLE ROW STRIPS

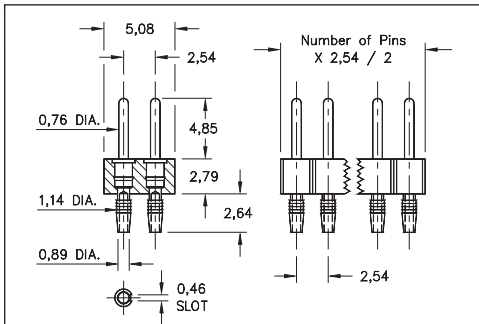


FIG. 1

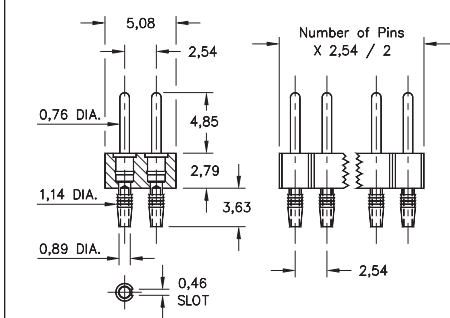


FIG. 2

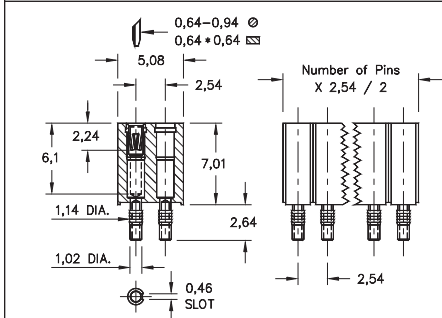


FIG. 3

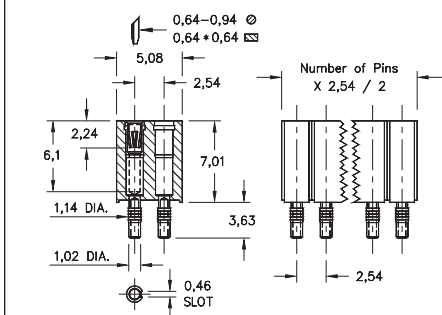


FIG. 4

- The unique compliant tail pins conform to $1,02 \pm 0,76$ finished hole without stressing inner layers. Patent No. 4,799,904
- Headers and sockets are available for board thicknesses of 1,52 - 2,54 and 2,29 - 3,3. See ordering information for details
- Series 802 pin headers use MM #5601 and #5602 compliant tail pins featuring a 0,76 dia. mating lead. See page 220 for details
- Series 803 sockets with MM #4614 or #4615 pins use Hi-Rel, 6-finger BeCu #47 contact rated at 4.5 amps. Receptacles accept 0,76 diameter pins & 0,64 square pins. See pg. 256 for details
- Insulators are high temperature thermoplastic



ORDERING INFORMATION

FIG. 1	Compliant Tail Pin Header for 1,52 - 2,54 Thick Boards				
	802-XX-0-61-001000 Specify number of pins 02-64				
FIG. 2	Compliant Tail Pin Header for 2,29 - 3,3 Thick Boards				
	802-XX-0-62-001000 Specify number of pins 04-64				
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Enviromental Data, See page 264					
SPECIFY PLATING CODE XX=		10 	90	40 	
Pin Plating 		0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

FIG. 3	Compliant Tail Socket for 1,52 - 2,54 Thick Boards							
	803-XX-__-__-61-001000 Specify number of pins 002-100							
FIG. 4	Compliant Tail Socket for 2,29 - 3,3 Thick Boards							
	803-XX-__-__-62-001000 Specify number of pins 004-100							
RoHS-2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Enviromental Data, See page 264								
SPECIFY PLATING CODE XX=								
Sleeve (Pin)	11	13	91	93	99	41	43	44
Contact (Clip)								

INTERCONNECTS

SERIES 800 & 802 • 2,54 GRID (0,76 DIA. PINS), SHROUDED STRAIGHT, SURFACE MOUNT & SOLDERLESS PRESS-FIT • SINGLE AND DOUBLE ROW STRIPS

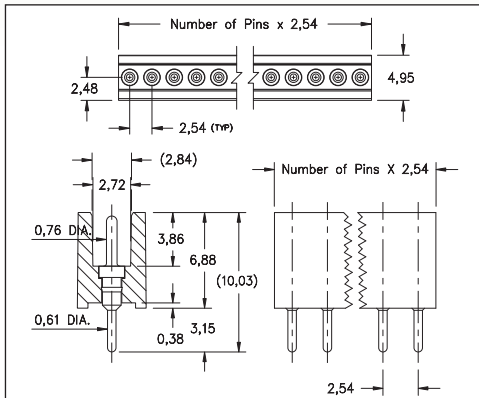


FIG. 1

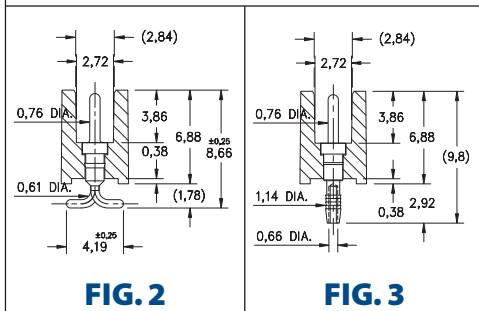


FIG. 2

FIG. 3

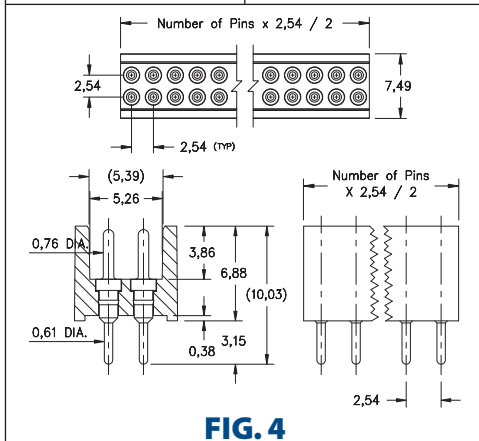


FIG. 4

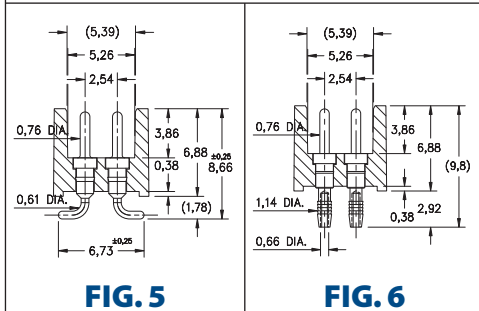
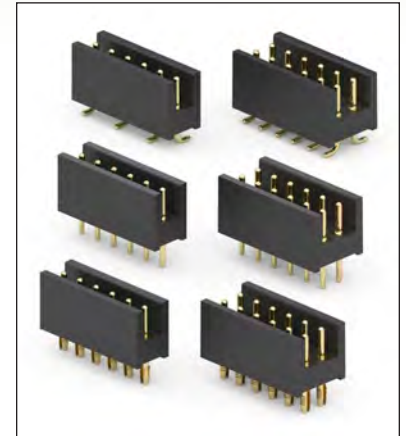


FIG. 5

FIG. 6

- Shrouded pin interconnects available with straight Series 800...10-052 and 802...10-052 or surface mount 800...30-052 and 802...30-052 use MM #5016 pins. See page 215 for details
- Shrouded pin interconnects with solderless press-fit Series 800...61-051 and 802...61-051 use MM #5607 pins. See page 213 for details. The unique compliant tail pins conform to $1,02 \pm 0,07$ finished hole without stressing inner layers. Patent No. 4,799,904
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 800...10-052 Straight Pin Header	
	800-10-0	-10-052000
	Specify number of pins	01-32
FIG. 2	Series 800...30-052 Surface Mount Pin Header	
	800-10-0	-30-052000
	Specify number of pins	03-32
FIG. 3	Series 800...61-051 Compliant Tail Pin Header	
	800-10-0	-61-051000
	Specify number of pins	01-32
FIG. 4	Series 802...10-052 Straight Pin Header	
	802-10-0	-10-052000
	Specify number of pins	04-64
FIG. 5	Series 802...30-052 Surface Mount Pin Header	
	802-10-0	-30-052000
	Specify number of pins	04-64
FIG. 6	Series 802...61-051 Compliant Tail Pin Header	
	802-10-0	-61-051000
	Specify number of pins	04-64
RoHS-2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264		
SPECIFY PLATING CODE XX=		
Pin Plating	10 ◇	
	0,25μm Au	



INTERCONNECTS

SERIES 349, 449, 800, 801, 802, 803 • 2,54 GRID (0,76 DIA. PINS), SURFACE MOUNT HEADERS & SOCKETS • SINGLE AND DOUBLE ROW STRIPS

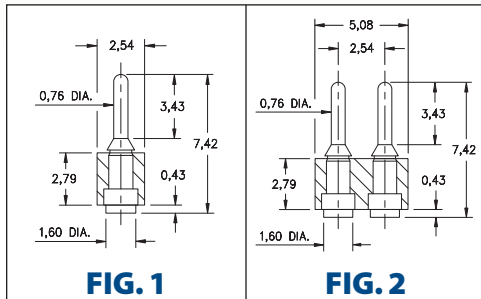


FIG. 1

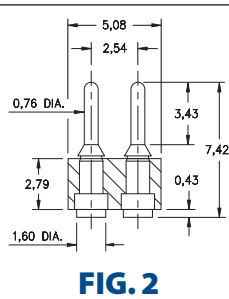


FIG. 2

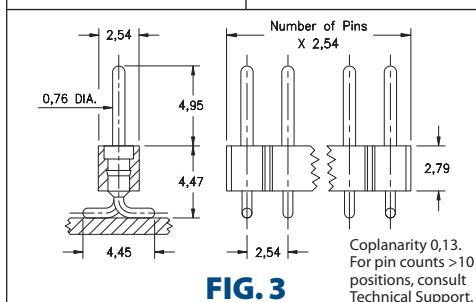


FIG. 3

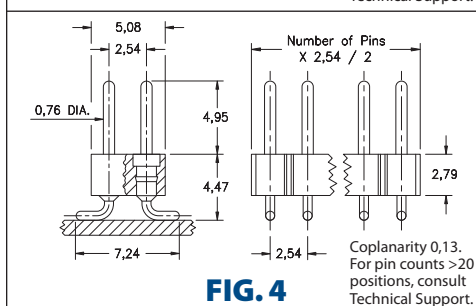


FIG. 4

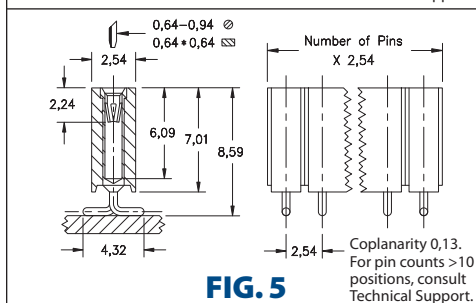


FIG. 5

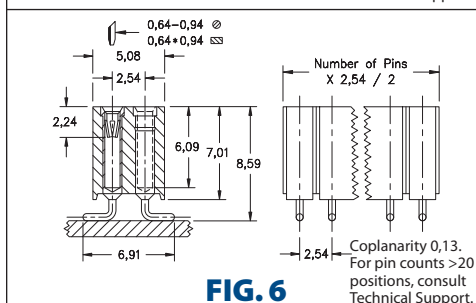
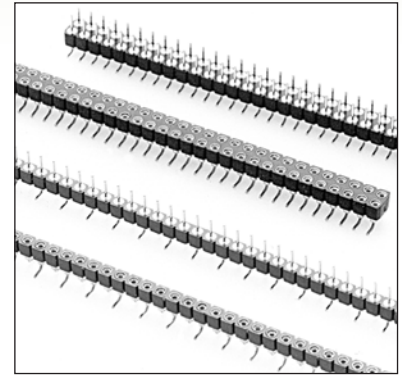


FIG. 6

- Series 349 & 449 use MM #4956-1 pins. See page 218 for details
- Series 800 & 802 use MM #7007 pins. See page 215 for details
- Series 801 & 803 use MM #1304 receptacles and accept pin diameters from 0,64 - 0,94 and 0,64 square pins. See page 177 for details
- Receptacles use Hi-Rel, 6-finger BeCu #47 contact rated at 4.5 amps. See page 256 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 349...560 Single Row Surface Mount Header	
	349-10-1	-00-560000
	Specify number of pins	02-64
FIG. 2	Series 449...560 Double Row Surface Mount Header	
	449-10-2	-00-560000
	Specify number of pins	04-64
FIG. 3	Series 800...001 Single Row Surface Mount Header	
	800-10-0	-30-001000
	Specify number of pins	03-64
FIG. 4	Series 802...001 Double Row Surface Mount Header	
	802-10-0	-30-001000
	Specify number of pins	04-72
SPECIFY PLATING CODE XX=		10 ◆
Pin Plating		0,25µm Au
FIG. 5	Series 801...001 Single Row Surface Mount Socket	
	801-43-0	-30-001000
	Specify number of pins	03-50
FIG. 6	Series 803...001 Double Row Surface Mount Socket	
	803-XX-	-30-001000
	Specify number of pins	004-100
RoHS-2 2011/65/EU		XX=Plating Code See Below
SPECIFY PLATING CODE XX=		93
Sleeve (Pin)		5,08µm Sn/Pb
Contact (Clip)		0,76µm Au
		43 ◆
		5,08µm Sn
		0,76µm Au



INTERCONNECTS

SERIES 804 & 805 • 2,54 GRID (0,76 DIA. PINS), HEADERS AND SOCKETS • TRIPLE ROW

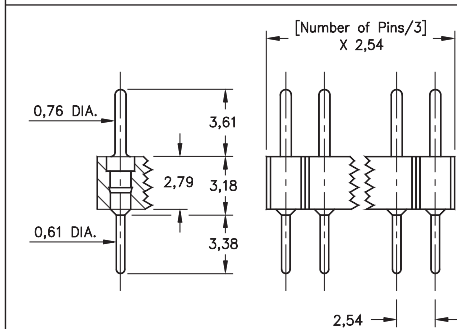
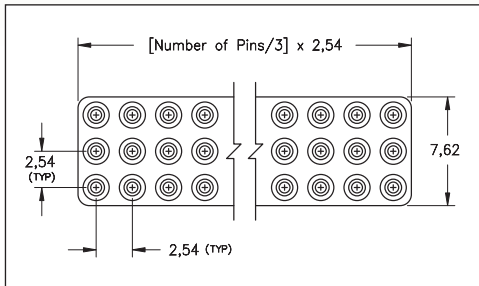


FIG. 1

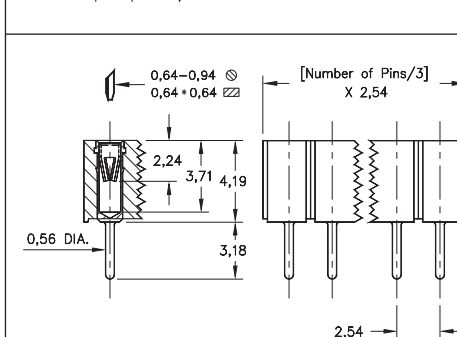
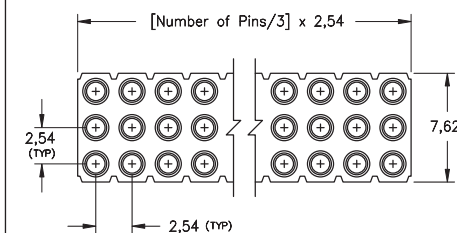


FIG. 2

- Series 804 triple row 2,54 grid headers uses MM #5016 pins. See page 215 for details
- Series 805 triple row 2,54 grid sockets uses MM #1303 pins. See page 180 for details
- Series 805 triple row 2,54 grid sockets uses Hi-Rel, 6-finger BeCu #47 contact rated at 4.5 amps. See page 256 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 804...002		Straight Pin Header	
	804-10-0- -10-002000 Specify number of pins 09-96			
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Enviromental Data, See page 264				
SPECIFY PLATING CODE XX=		10		
Pin Plating		0,25µm Au		

FIG. 2	Series 805...012		Straight Pin Socket					
	805-43-0-10-012000 Specify number of pins 09-96							
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264								
SPECIFY PLATING CODE XX=						43		
Sleeve (Pin)							5,08µm Sn	
Contact (Clip)							0,76µm Au	

INTERCONNECTS

SERIES 800, 801, 802, 803 • 2,54 GRID SOLDER CUP HEADERS AND SOCKETS • SINGLE AND DOUBLE ROW STRIPS

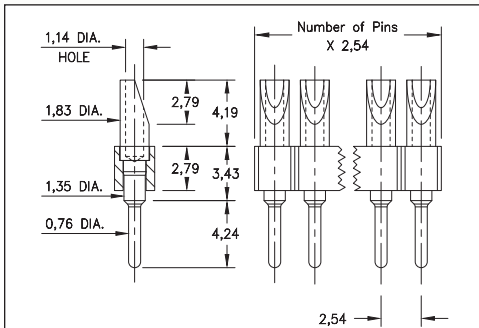


FIG. 1

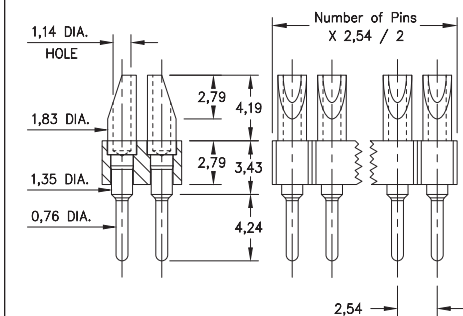


FIG. 2

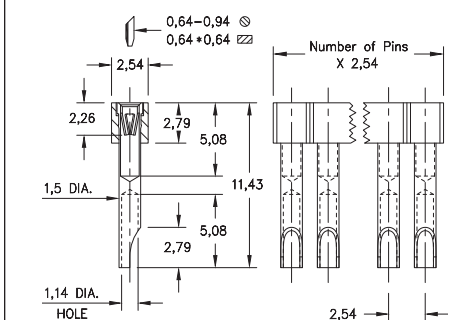


FIG. 3

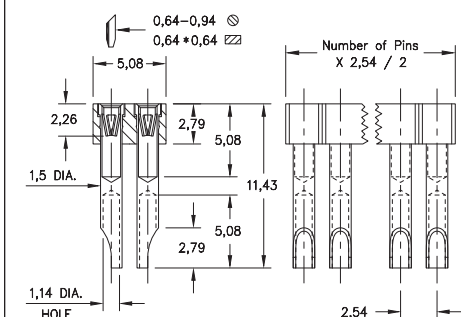
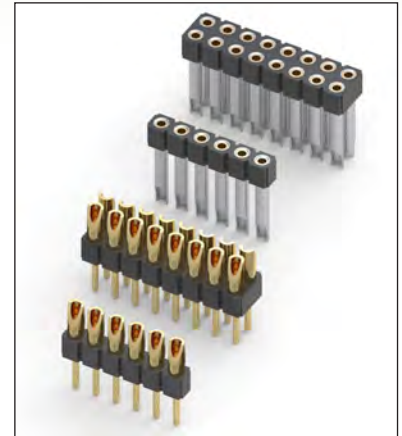


FIG. 4

- Series 800 and 802 use MM #1107 pins. See page 218 for details
- Series 801 and 803 use MM #1134 pin receptacles and accept pin diameters from 0,64 - 0,94 and 0,64 square pins. See page 177 for details
- Series 801 and 803 receptacles use Hi-Rel, 4-finger BeCu #47 contact rated at 4.5 amps. See page 256 for details
- Solder cups are pre-aligned and accept up to 20 AWG wire
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 800...007 Single Row Solder Cup / Solder Tail	
	800-XX-0	-10-007000
	Specify number of pins	02-64
FIG. 2	Series 802...007 Double Row Solder Cup / Solder Tail	
	802-XX-0	-10-007000
	Specify number of pins	02-64
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264		
SPECIFY PLATING CODE XX=		
Pin Plating		
	10	40
	0,25µm Au	5,08µm Sn

FIG. 3	Series 801...007 Single Row Solder Cup Sockets	
	801-13-0	-10-007000
	Specify number of pins	02-64
FIG. 4	Series 803...007 Double Row Solder Cup Sockets	
	803-13-0	-10-007000
	Specify number of pins	02-64
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264		
SPECIFY PLATING CODE XX=		
Sleeve (Pin)		
Contact (Clip)		
	13	
	0,25µm Au	
	0,76µm Au	

INTERCONNECTS

SERIES 800, 801, 802, 803 • 2,54 GRID (1,02 DIA. PINS), HEADERS AND SOCKETS • SINGLE AND DOUBLE ROW STRIPS

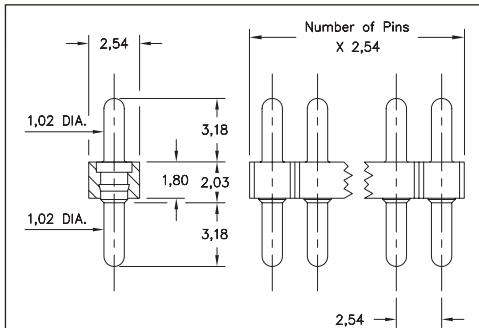


FIG. 1

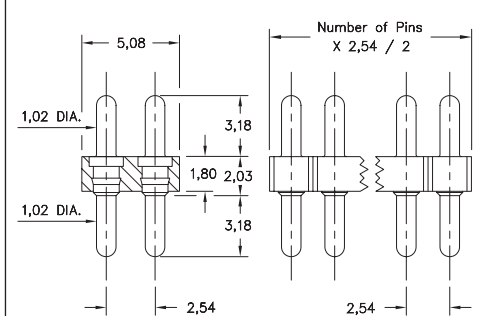


FIG. 2

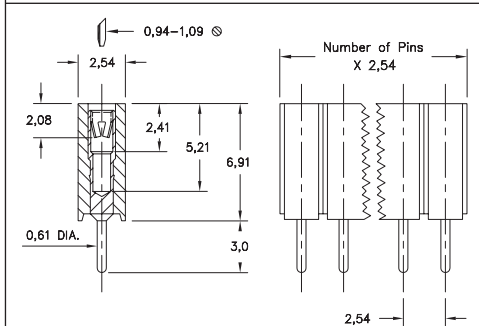


FIG. 3

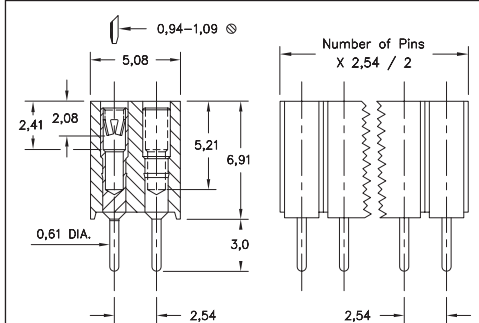
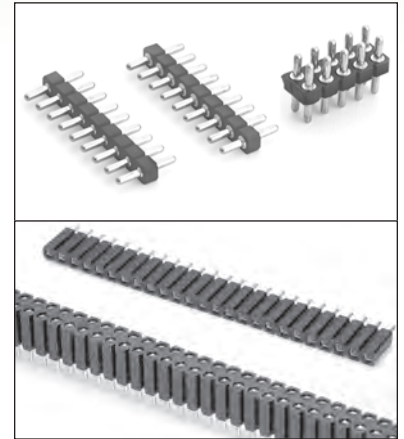


FIG. 4

- Series 800 and 802 single and double row interconnects feature sturdy 1,02 dia. leads (MM #3077) and low profile (1,80 thick) insulator. See page 215 for details
- Series 801 and 803 single and double row sockets use MM #1313 receptacles. See page 181 for details
- Series 801 and 803 receptacles use Hi-Rel, 6-finger BeCu #18 contact rated at 8 amps. Receptacles accept 0,94 - 1,09 diameter pins. See page 257 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 800...10-004	Single Row Pin Header		
	800-XX-0	-10-004000	01-50	
	Specify number of pins			
FIG. 2	Series 802...10-004	Double Row Pin Header		
	802-XX-	-10-004000	004-100	
	Specify number of pins			
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264				
SPECIFY PLATING CODE XX=		10	90	40
Pin Plating		0,25µm Au	5,08µm Sn/Pb	5,08µm Sn

FIG. 3	Series 801...10-004	Single Row Socket					
	801-XX-0-10-004000 Specify number of pins 01-50						
FIG. 4	Series 803...10-004	Double Row Socket					
	803-XX--10-004000 Specify number of pins 004-100						
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264							
SPECIFY PLATING CODE XX=							
Sleeve (Pin)	13	91	93	99	41	43	44
Contact (Clip)							



INTERCONNECTS

SERIES 834 & 835 • 2,54 GRID OFF® PASS-THROUGH SOCKETS Ø0,76 & □0,64 PINS • SINGLE AND DOUBLE ROW STRIPS

- 834/835 Series Pass-Through Sockets have a low 3,30 profile and will accept Ø0,76 round pin, as well as industry standard 0,64 square pin headers.
- They are typically used to interconnect two or more parallel circuit boards.
- Sockets are designed for hand, wave or reflow* soldering. The high temperature insulator is compatible with all solder processes.
- Unique ORGANIC FIBRE PLUG® barriers prevent solder, paste or flux from contaminating the internal spring contacts. After soldering, the OFF® barriers are pushed out of the socket when the mating header is inserted.
- Mill-Max sockets use a receptacle consisting of a precision-machined brass sleeve with a press-fit beryllium copper "multi-finger" spring contact.
- Recommended mounting holes are Ø1,17 ±0,08 PTH (1,2 mm drilled prior to plating).

*Intrusive reflow (also called "pin-in-paste") is a technique of using conventional through-hole components in a reflow soldering process. The pass-through socket is placed into plated through-holes in the circuit board (solder paste has previously been screen printed on pads adjacent to the holes) and the board is reflowed in the same pass as other SMT components. Solder will fill the plated through-holes and achieve solder joints as reliable as wave soldering. The OFF® barrier prevents solder paste from being picked up inside the contact during assembly.

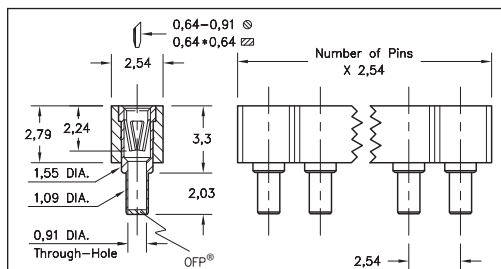
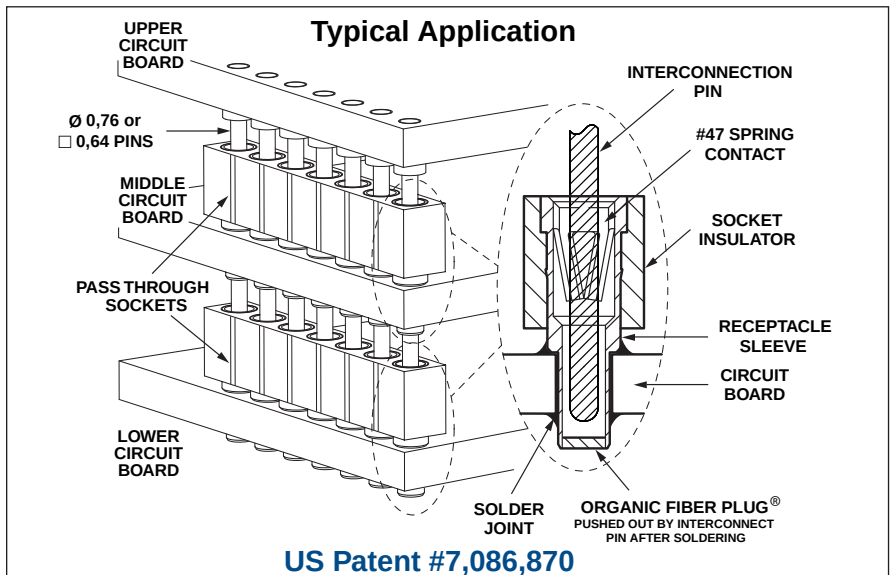
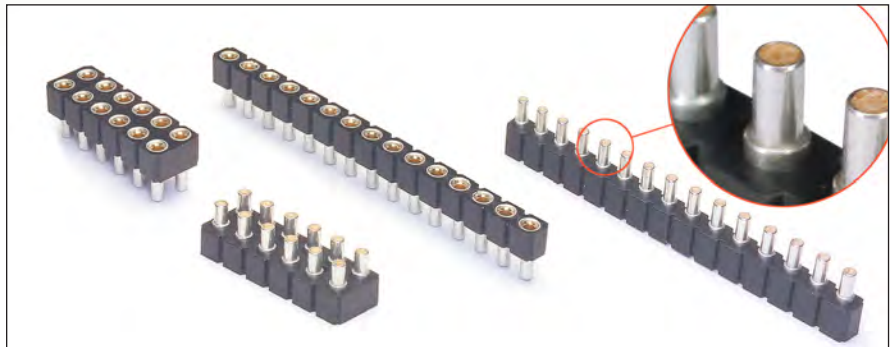


FIG. 1

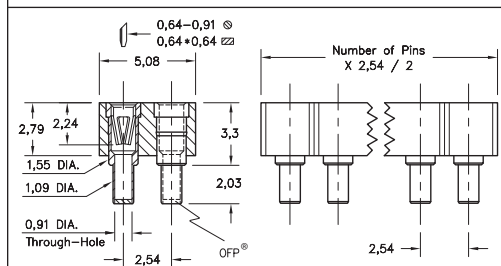


FIG. 2

ORDERING INFORMATION

FIG. 1	Series 834...001 Single Row OFF® Pass-Through Socket	
	834-XX-0	-10-001000
	Specify number of pins	01-64
FIG. 2	Series 835...001 Double Row OFF® Pass-Through Socket	
	835-XX-0	-10-001000
	Specify number of pins	04-72
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264		
SPECIFY PLATING CODE XX=		
Sleeve (Pin)	93	43
Contact (Clip)	5,08µm Sn/Pb	5,08µm Sn
	0,76µm Au	0,76µm Au



INTERCONNECTS

SERIES 800 & 801 • 5,08 GRID (0,76 DIA. PINS), STRAIGHT AND RIGHT ANGLE • SINGLE ROW STRIPS

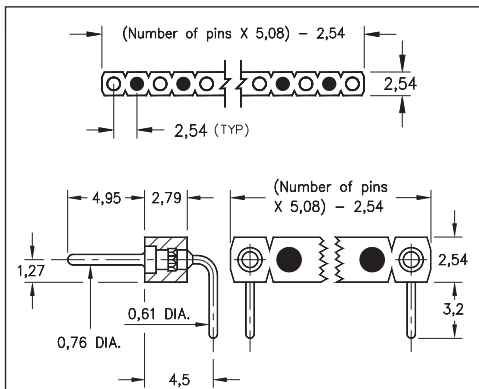


FIG. 1

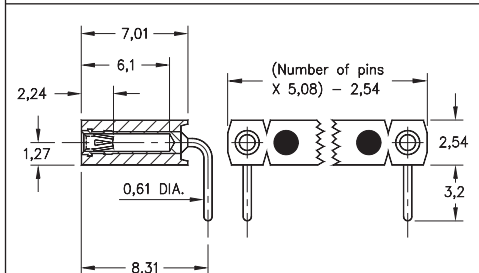


FIG. 2

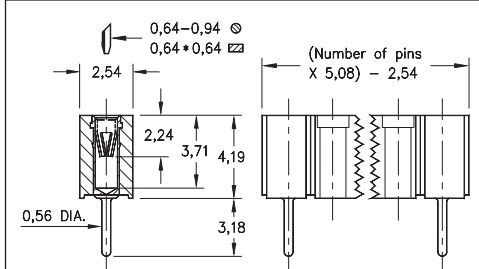


FIG. 3

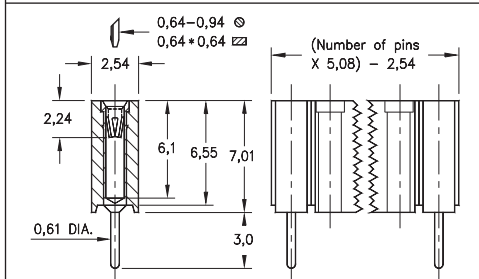
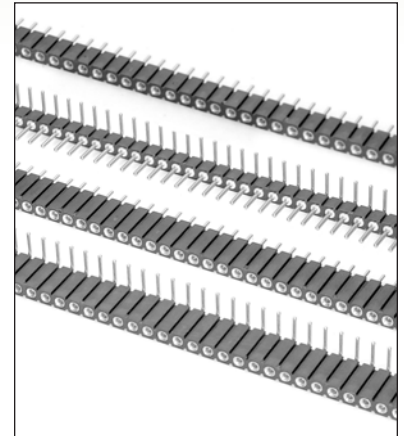


FIG. 4

- Series 800 selectively loaded headers uses MM #5005 pins. See page 215 for details
- Series 801 selectively loaded sockets use MM #1303, #1304 and #1305 pins. See pages 177, 179 & 180 for details
- Series 801 selectively loaded sockets use Hi-Rel, 6-finger BeCu #47 contact rated at 3 amps. See page 256 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 800...20-201		Right Angle Header		
	800-10-0-20-201000 Specify number of pins 02-32				
RoHS-2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Enviromental Data, See page 264					
SPECIFY PLATING CODE XX=		10			
Pin Plating 		0,25µm Au			

FIG. 2	Series 801...20-201	Right Angle Socket
	801-XX-0-20-201000 Specify number of pins 02-25	
FIG. 3	Series 801...10-212	Straight Socket
	801-43-0-10-212000 Specify number of pins 02-18	
FIG. 4	Series 801...10-201	Straight Socket
	801-43-0-10-201000 Specify number of pins 02-25	
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264		
SPECIFY PLATING CODE XX=		
Sleeve (Pin)		
Contact (Clip)		



INTERCONNECTS

SERIES 310, 311, 315 • 2,54 GRID SOLDER TAIL • SINGLE ROW STRIPS

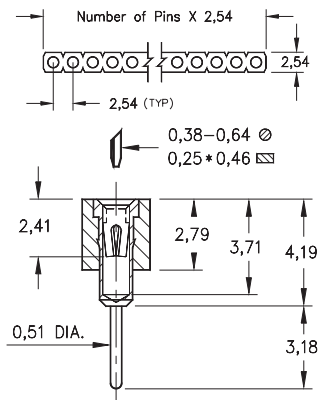


FIG. 1

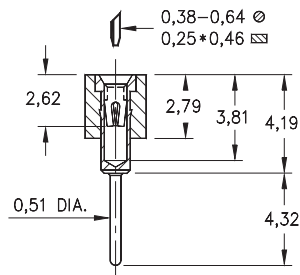


FIG. 2

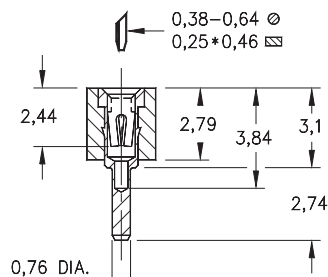


FIG. 3

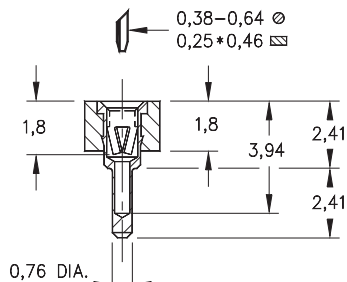
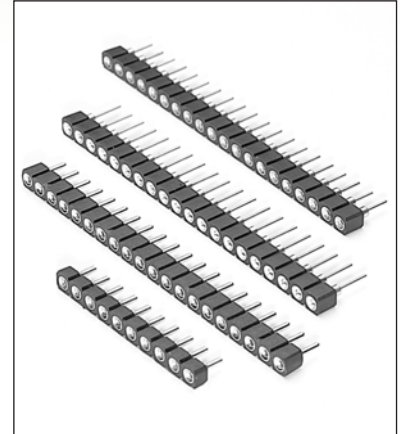


FIG. 4

- SIP sockets accept 0,38 - 0,64 diameter pins and standard IC leads
- Various solder tails available: standard length, long for multi-layer boards, very low and ultra low profile. See Mill-Max #1001, #0134, #0501 or #1534 pins. See pages 161, 162 and 165 for details
- Hi-Rel, 4-finger BeCu #12 and #30 contact are rated at 3 amps. See pages 252 and 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 310...001	Standard Solder Tail																											
	310-XX-1-41-001000 Specify number of pins 01-64																												
FIG. 2	Series 311...001	Long Solder Tail																											
	311-XX-1-41-001000 Specify number of pins 01-64																												
FIG. 3	Series 315...001	Very Low Profile																											
	315-XX-1-41-001000 Specify number of pins 01-64																												
FIG. 4	Series 315...003	Ultra Low Profile																											
	315-XX-1-41-003000 Specify number of pins 01-64																												
RoHS-2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Enviromental Data, See page 264 <table><tr><td>SPECIFY PLATING CODE XX=</td><td>11</td><td>13</td><td>91</td><td>93</td><td>99</td><td>41</td><td>43</td><td>44</td></tr><tr><td>Sleeve (Pin)</td><td>0,25µm Au</td><td>0,25µm Au</td><td>5,08µm Sn/Pb</td><td>5,08µm Sn/Pb</td><td>5,08µm Sn/Pb</td><td>5,08µm Sn</td><td>5,08µm Sn</td><td>5,08µm Sn</td></tr><tr><td>Contact (Clip)</td><td>0,25µm Au</td><td>0,76µm Au</td><td>0,25µm Au</td><td>0,76µm Au</td><td>2,54µm Sn/Pb</td><td>0,25µm Au</td><td>0,76µm Au</td><td>2,54µm Sn</td></tr></table>			SPECIFY PLATING CODE XX=	11	13	91	93	99	41	43	44	Sleeve (Pin)	0,25µm Au	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	5,08µm Sn	Contact (Clip)	0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	2,54µm Sn/Pb	0,25µm Au	0,76µm Au	2,54µm Sn
SPECIFY PLATING CODE XX=	11	13	91	93	99	41	43	44																					
Sleeve (Pin)	0,25µm Au	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	5,08µm Sn																					
Contact (Clip)	0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	2,54µm Sn/Pb	0,25µm Au	0,76µm Au	2,54µm Sn																					

★ 41 & 91 Platings Non-Standard



INTERCONNECTS

SERIES 410, 411, 415 • 2,54 GRID SOLDER TAIL • DOUBLE ROW STRIPS

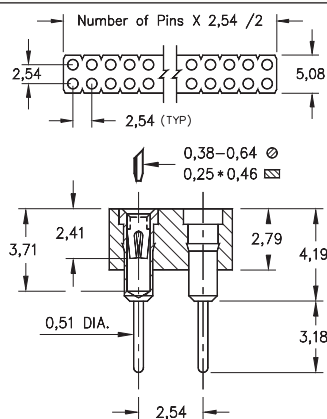


FIG. 1

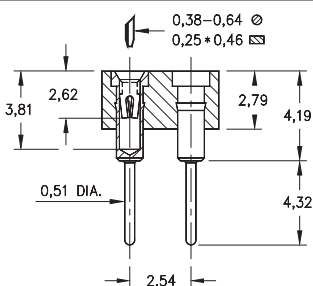


FIG. 2

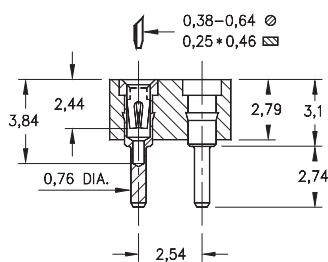


FIG. 3

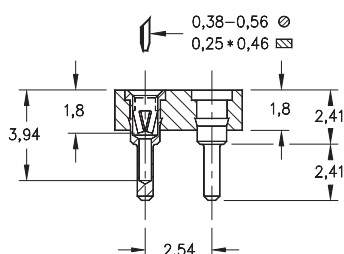


FIG. 4

- Series 41X double row strip sockets are on 2,54 grid
- Various solder tails available: standard length, long for multi-layer boards, very low and ultra low profile. See Mill-Max #1001, #0134, #0501 or #1534 pins. See pages 161, 162 and 165 for details
- Hi-Rel, 4-finger BeCu #12 and #30 contact are rated at 3 amps. See pages 252 and 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 410...001	Standard Solder Tail					
	410-XX-2-41-001000 Specify number of pins 04-64						
FIG. 2	Series 411...001	Long Solder Tail					
	411-XX-2-41-001000 Specify number of pins 04-64						
FIG. 3	Series 415...001	Very Low Profile					
	415-XX-2-41-001000 Specify number of pins 04-64						
FIG. 4	Series 415...003	Ultra Low Profile					
	415-XX-2-41-003000 Specify number of pins 04-64						
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Enviromental Data, See page 264							
SPECIFY PLATING CODE XX=							
Sleeve (Pin)	11	13	91	93	41	43	
Contact (Clip)							

INTERCONNECTS

SERIES 316 • 2,54 GRID ELEVATED • SINGLE ROW STRIPS

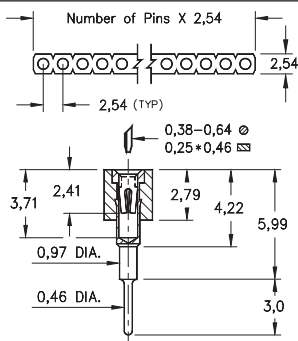


FIG. 1

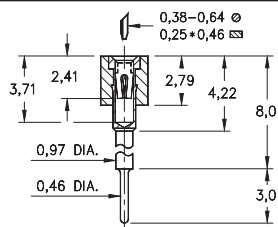


FIG. 2

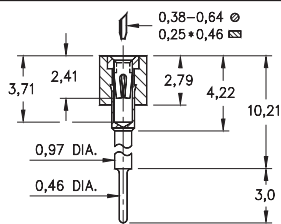


FIG. 3

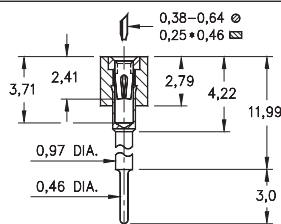


FIG. 4

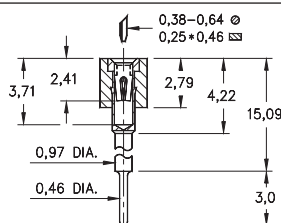


FIG. 5

- Elevated socket strips are available in 5 different heights:

316...006 uses pin # 0153-1

316...003 uses pin # 0153-2

316...007 uses pin # 0153-3

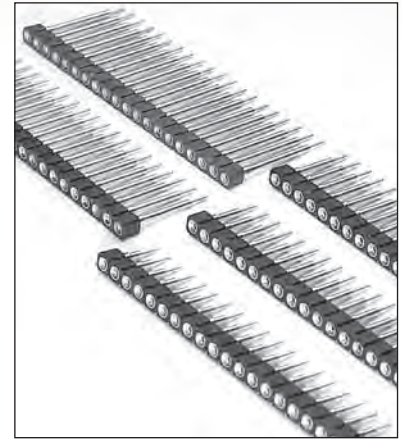
316...008 uses pin # 0153-4

316...001 uses pin # 0153-5

See page 167 for details

- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 316...006	Standoff Height = 5,99		
	316-XX-1-41-006000 Specify number of pins 01-64			
FIG. 2	Series 316...003	Standoff Height = 8,0		
	316-XX-1-41-003000 Specify number of pins 01-64			
FIG. 3	Series 316...007	Standoff Height = 10,21		
	316-XX-1-41-007000 Specify number of pins 01-64			
FIG. 4	Series 316...008	Standoff Height = 11,99		
	316-XX-1-41-008000 Specify number of pins 01-64			
FIG. 5	Series 316...001	Standoff Height = 15,09		
	316-XX-1-41-001000 Specify number of pins 01-64			
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Enviromental Data, See page 264				
SPECIFY PLATING CODE XX=				
Sleeve (Pin)	91	93	41	43
Contact (Clip)	0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au

INTERCONNECTS

SERIES 416 • 2,54 GRID ELEVATED • DOUBLE ROW STRIPS

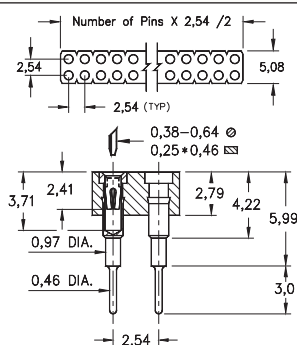


FIG. 1

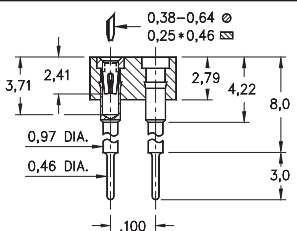


FIG. 2

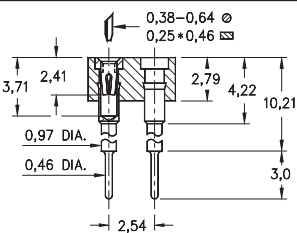


FIG. 3

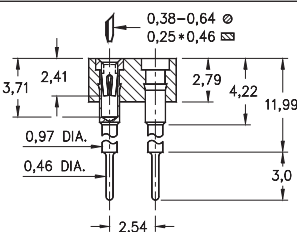


FIG. 4

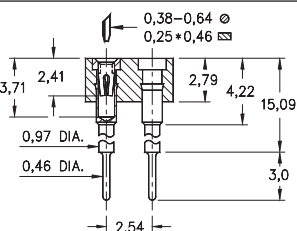
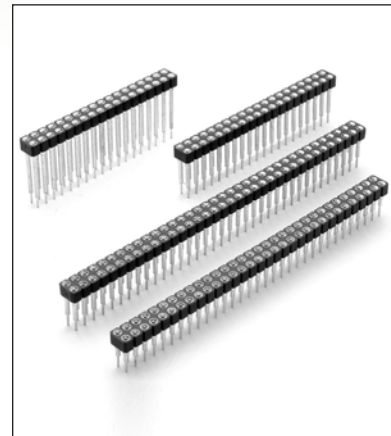


FIG. 5

- Elevated socket strips are available in 5 different heights:

416...006 uses pin # 0153-1
416...003 uses pin # 0153-2
416...007 uses pin # 0153-3
416...008 uses pin # 0153-4
416...001 uses pin # 0153-5
See page 167 for details

- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 416...006	Standoff Height = 5,99		
	416-XX-2	-41-006000		
	Specify number of pins	04-64		
FIG. 2	Series 416...003	Standoff Height = 8,0		
	416-XX-2	-41-003000		
	Specify number of pins	04-64		
FIG. 3	Series 416...007	Standoff Height = 10,21		
	416-XX-2	-41-007000		
	Specify number of pins	04-64		
FIG. 4	Series 416...008	Standoff Height = 11,99		
	416-XX-2	-41-008000		
	Specify number of pins	04-64		
FIG. 5	Series 416...001	Standoff Height = 15,09		
	416-XX-2	-41-001000		
	Specify number of pins	04-64		
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264				
SPECIFY PLATING CODE XX=				
Sleeve (Pin)	91	93	41	43
	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn
Contact (Clip)	0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au

INTERCONNECTS

SERIES 321, 322, 323, 324 • 2,54 GRID WRAPOST • SINGLE ROW STRIPS

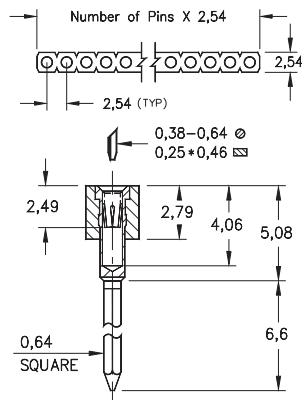


FIG. 1

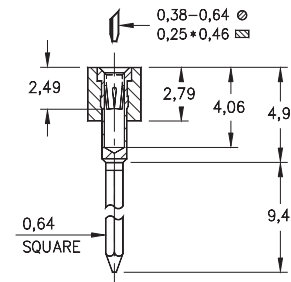


FIG. 2

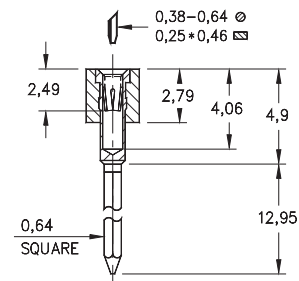


FIG. 3

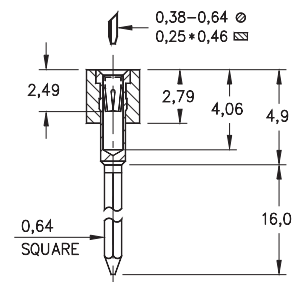
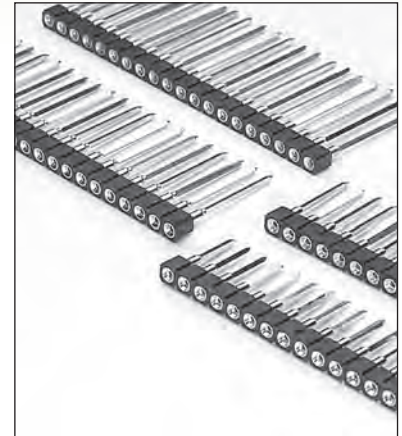


FIG. 4

- Wraposts available in 1 - 4 levels using MM pin numbers:

1-Level uses pin # 0040-1
2-Level uses pin # 0089-2
3-Level uses pin # 0088-3
4-Level uses pin # 0086-4
See page 198 for details

- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 321...001	1 Level Wrapost				
	321-13-1-41-001000 Specify number of pins 01-64					
FIG. 2	Series 322...001	2 Level Wrapost				
	322-XX-1-41-001000 Specify number of pins 01-64					
FIG. 3	Series 323...001	3 Level Wrapost				
	323-XX-1-41-001000 Specify number of pins 01-64					
FIG. 4	Series 324...002	4 Level Wrapost				
	324-XX-1-41-002000 Specify number of pins 01-64					
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Enviromental Data, See page 264						
SPECIFY PLATING CODE XX=						
Sleeve (Pin)	11	13	91	93	41	43
Contact (Clip)						

INTERCONNECTS

SERIES 421, 422, 423, 424 • 2,54 GRID WRAPOST • DOUBLE ROW STRIPS

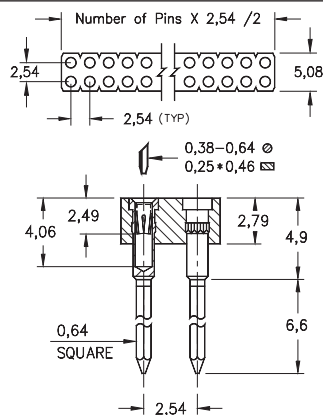


FIG. 1

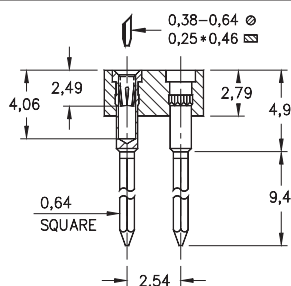


FIG. 2

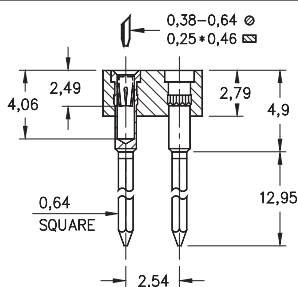


FIG. 3

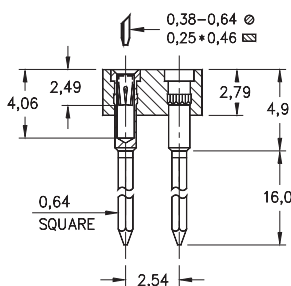


FIG. 4

- Wrapost double row strip sockets are available with 1 - 4 level wraposts:

- 1-Level uses pin # 0040-1
 - 2-Level uses pin # 0089-2
 - 3-Level uses pin # 0088-3
 - 4-Level uses pin # 0086-4
- See page 198 for details

- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 421...001	1 Level Wrapost	
	421-XX-2-41-001000 Specify number of pins 04-64		
FIG. 2	Series 422...001	2 Level Wrapost	
	422-XX-2-41-001000 Specify number of pins 04-64		
FIG. 3	Series 423...001	3 Level Wrapost	
	423-XX-2-41-001000 Specify number of pins 04-64		
FIG. 4	Series 424...002	4 Level Wrapost	
	424-XX-2-41-002000 Specify number of pins 04-64		
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Enviromental Data, See page 264			
SPECIFY PLATING CODE XX=			
Sleeve (Pin)	13	93	43
Contact (Clip)			

INTERCONNECTS

SERIES 326 • 2,54 GRID WRAPOST WITH SOLDER TAIL • SINGLE ROW STRIPS

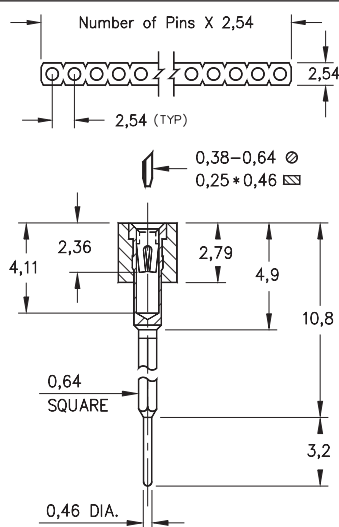


FIG. 1

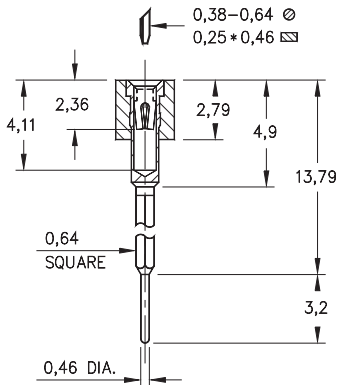


FIG. 2

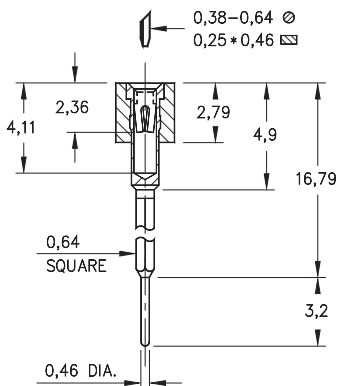


FIG. 3

- Wrapost / Solder Tail combinations are available in 3 lengths using MM pin numbers:

326...001 uses pin # 2601

326...002 uses pin # 2602

326...003 uses pin # 2603

See page 199 for details

- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 326...001	1 Level Wrapost
	326-XX-1	-41-001000 Specify number of pins → 01-64
FIG. 2	Series 326...002	2 Level Wrapost
	326-XX-1	-41-002000 Specify number of pins → 01-64
FIG. 3	Series 326...003	3 Level Wrapost
	326-XX-1	-41-003000 Specify number of pins → 01-64



XX=Plating Code
See Below

For
Electrical, Mechanical
& Environmental Data,
See page 264

SPECIFY PLATING CODE XX=	91	93	41	43
Sleeve (Pin)	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn
Contact (Clip)	0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au



INTERCONNECTS

SERIES 426 • 2,54 GRID WRAPOST WITH SOLDER TAIL • DOUBLE ROW STRIPS

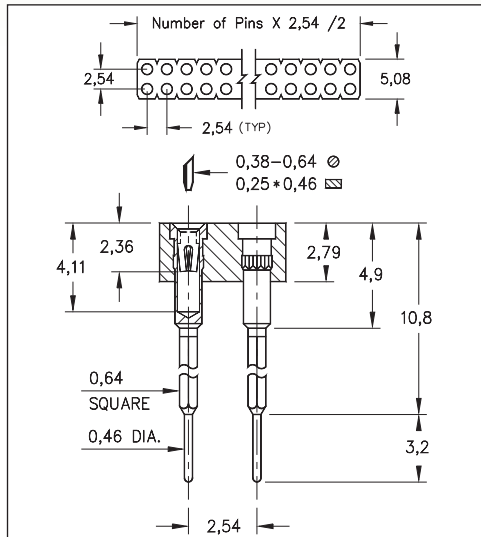


FIG. 1

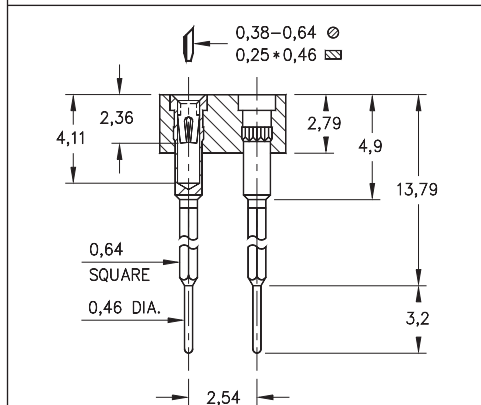


FIG. 2

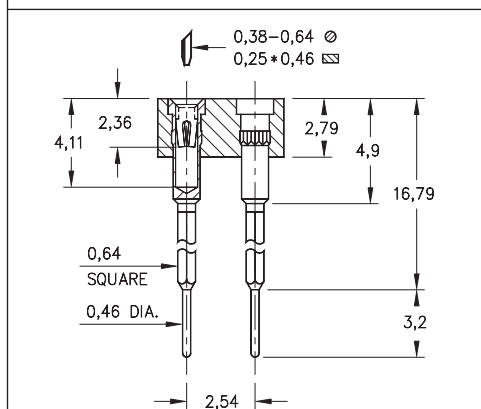


FIG. 3

- Wrapost / Solder Tail combination for interconnect purposes are available in 3 lengths using pin numbers:

426...001 uses pin # 2601

426...002 uses pin # 2602

426...003 uses pin # 2603

See page 199 for details

- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 426...001	1 Level Wrapost
	426-XX-2	-41-001000
	Specify number of pins	04-64
FIG. 2	Series 426...002	2 Level Wrapost
	426-XX-2	-41-002000
	Specify number of pins	04-64
FIG. 3	Series 426...003	3 Level Wrapost
	426-XX-2	-41-003000
	Specify number of pins	04-64



XX=Plating Code
See Below

For
Electrical, Mechanical
& Environmental Data,
See page 264

SPECIFY PLATING CODE XX=	13	93	43
Sleeve (Pin)	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn
Contact (Clip)	0,76µm Au	0,76µm Au	0,76µm Au



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INTERCONNECTS

SERIES 304, 346 • 2,54 GRID SOLDERLESS PRESS-FIT • SINGLE ROW STRIPS

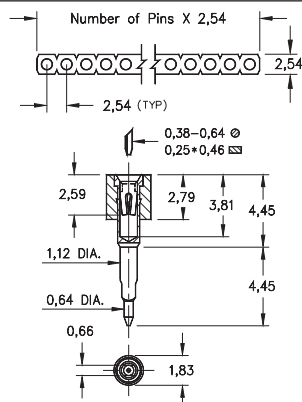


FIG. 1

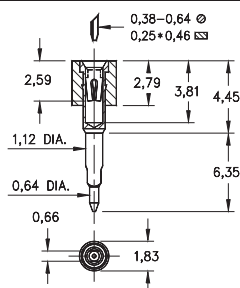


FIG. 2

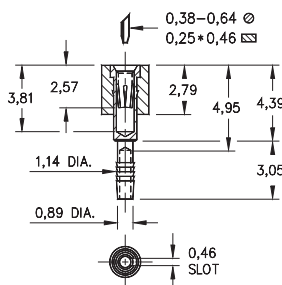


FIG. 3

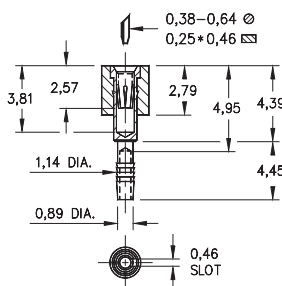


FIG. 4

- Unique compliant tail pins conform to the plated through-hole without stressing the inner layers of a multilayer board
- Recommended plated through-hole for 304 series: 0,91 - 1,04 use a 1,1mm drill prior to plating. Using MM #0477 & #0478 pins. See page 162 for details
- For 346 series: 1,02 ± 0,07 finished plated through-hole. Using MM #4612 & #4613 pins. See page 162 for details. Patent No. 4,799,904
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic

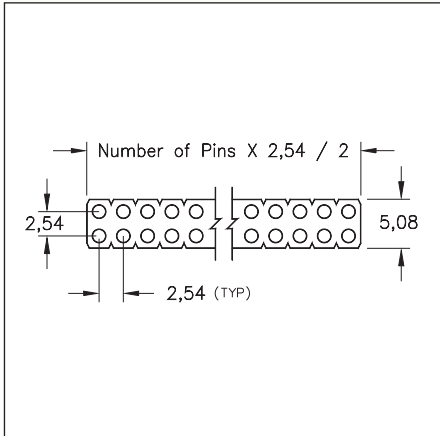


ORDERING INFORMATION

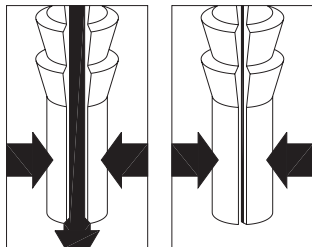
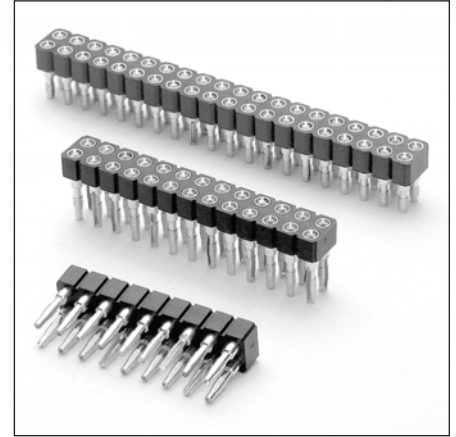
FIG. 1	Series 304...770	Solderless Press-Fit
	For 1,57 Thick Boards	
	304-XX-1	-41-770000
	Specify number of pins	01-64
FIG. 2	Series 304...780	Solderless Press-Fit
	For 3,18 Thick Boards	
	304-XX-1	-41-780000
	Specify number of pins	01-64
Mill-Max recommends plating Code 13 for Series 304...770 and 304...780		
FIG. 3	Series 346...012	Compliant Solderless Press-Fit
	For 1,52 - 2,54 Thick Boards	
	346-XX-1	-41-012000
	Specify number of pins	01-64
FIG. 4	Series 346...013	Compliant Solderless Press-Fit
	For 2,29 - 3,3 Thick Boards	
	346-XX-1	-41-013000
	Specify number of pins	01-64
RoHS-2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264		
SPECIFY PLATING CODE XX=		
Sleeve (Pin)		
Contact (Clip)		

INTERCONNECTS

SERIES 446 • 2,54 GRID COMPLIANT TAIL • DOUBLE ROW STRIPS



- Compliant tail solderless press-fit: MM #4612 or #4613 pins. Use series 446...012 for 1,52 - 3,05 thick boards and series 446...013 for 2,29 - 3,30 thick boards. See page 162 for details
- Compliant tail receptacles can be inserted and removed without any degradation of the plated through-hole
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic



APPLICATION OF COMPLIANT TAIL PINS

Mill-Max's patented* compliant tail features precision-machined pins that are hollow and slotted to conform to a $1,02 \pm 0,08$ diameter PTH. As the pin is inserted, the slot compresses to fit the PTH, thus avoiding damage (see illustration at left). The pin's tail has fine serrations that form a perfect "gas tight" connection that doesn't require soldering. And since the pin doesn't damage the hole, compliant tail sockets and connectors can be easily replaced.

* Patent No. 4,799,904.

ORDERING INFORMATION

FIG. 1

Series 446...012

Compliant Tail Socket

446-XX-2 -41-012000

Specify number of pins

04-64

FIG. 2

Series 446...013

Compliant Tail Socket

446-XX-2 -41-013000

Specify number of pins

04-64



XX=Plating Code
See Below

For
Electrical, Mechanical
& Environmental Data,
See page 264

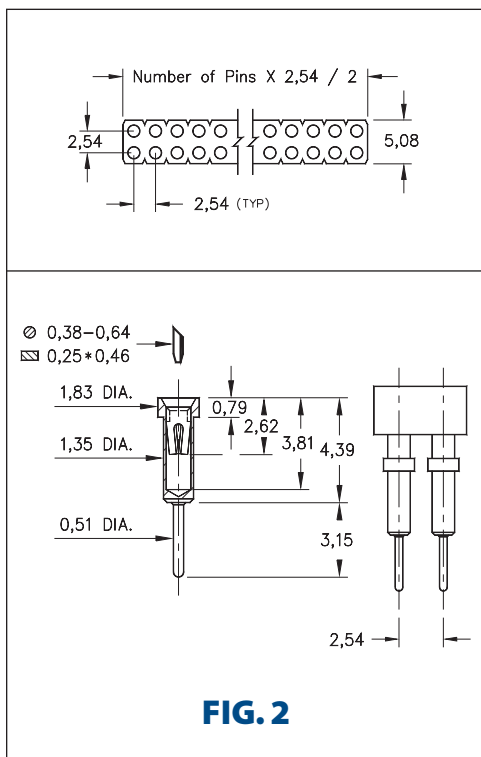
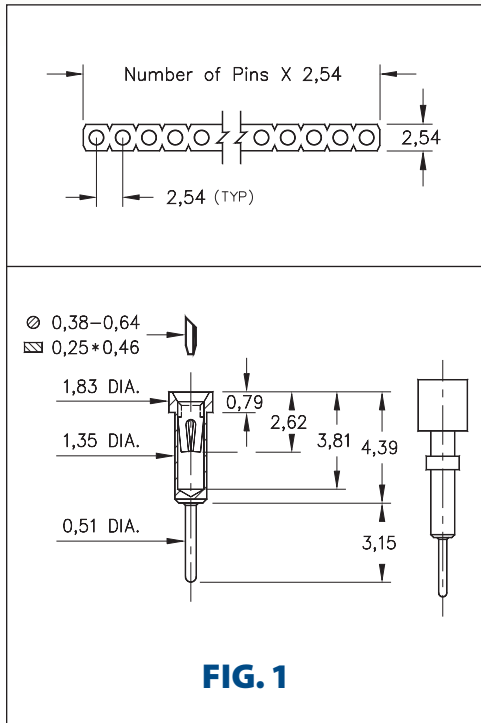
SPECIFY PLATING CODE XX=	13	93	99	43	44
Sleeve (Pin)	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn
Contact (Clip)	0,76µm Au	0,76µm Au	2,54µm Sn/Pb	0,76µm Au	2,54µm Sn



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INTERCONNECTS

SERIES 712 • 2,54 GRID CARRIER WITH SOLDER TAIL • SINGLE AND DOUBLE ROW STRIPS



- Standard solder tail receptacles can be mounted as a low profile receptacle or by the solder tail for use in smaller diameter holes
- Series 712 use MM #0255 pins. See page 165 for details
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Single Row (0,71 or 1,4 min. mounting holes)	
	712-XX-1	-41-001000
	Specify number of pins	01-64
FIG. 2	Double Row (0,71 or 1,4 min. mounting holes)	
	712-XX-2	-41-001000
	Specify number of pins	04-64



XX=Plating Code
See Below

For
Electrical, Mechanical
& Environmental Data,
See page 264

SPECIFY PLATING CODE XX=	11	13	91	93	41	43	
Sleeve (Pin)	0,25μm Au	0,25μm Au	5,08μm Sn/Pb	5,08μm Sn/Pb	5,08μm Sn	5,08μm Sn	
Contact (Clip)	0,25μm Au	0,76μm Au	0,25μm Au	0,76μm Au	0,25μm Au	0,76μm Au	



INTERCONNECTS

SERIES 714...00X • 2,54 GRID LOW PROFILE CARRIERS • SINGLE AND DOUBLE ROW STRIPS

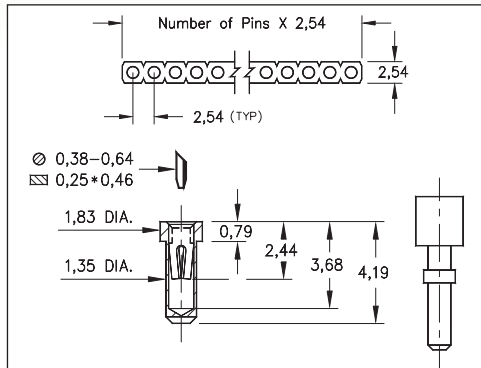


FIG. 1

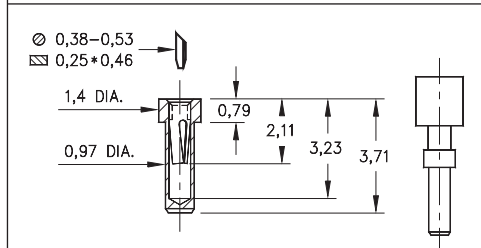


FIG. 2

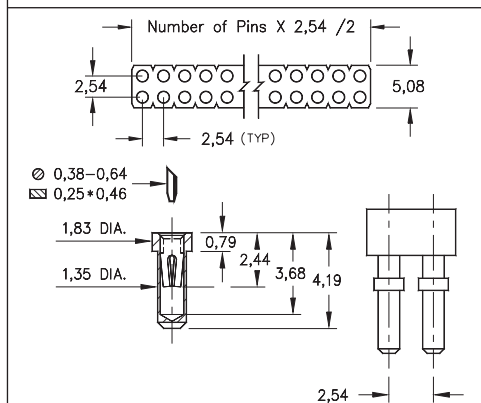


FIG. 3

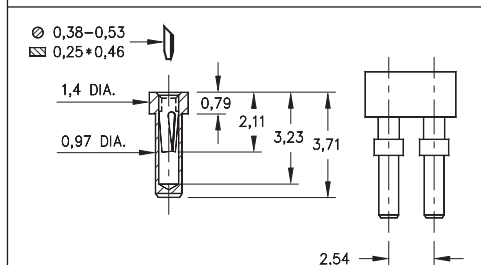
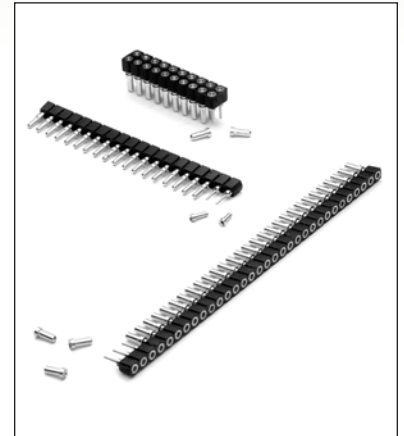


FIG. 4

- Low profile receptacles sit 0,79 above the board
- Series 714 use MM #1401 and MM #1407 pin receptacles. See pages 157 and 170 for details
- Hi-Rel, 4-finger BeCu #30 contact is used in the #1401 receptacle and a BeCu #11 contact is used in the #1407. Both contacts are rated at 3 amps. See pages 251 and 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Single Row (1,4 min. mounting hole)					
	714-XX-1	-41-001000	Specify number of pins	01-64		
FIG. 2	Single Row (0,99 min. mounting hole)					
	714-XX-1	-31-007000	Specify number of pins	01-64		
FIG. 3	Double Row (1,4 min. mounting hole)					
	714-XX-2	-41-001000	Specify number of pins	04-64		
FIG. 4	Double Row (0,99 min. mounting hole)					
	714-XX-2	-31-007000	Specify number of pins	04-64		
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264						
SPECIFY PLATING CODE XX=		91	93	41	43	
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	
Contact (Clip)		0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	

INTERCONNECTS

SERIES 714...01X • 2,54 GRID ULTRA LOW PROFILE CARRIERS • SINGLE AND DOUBLE ROW STRIPS

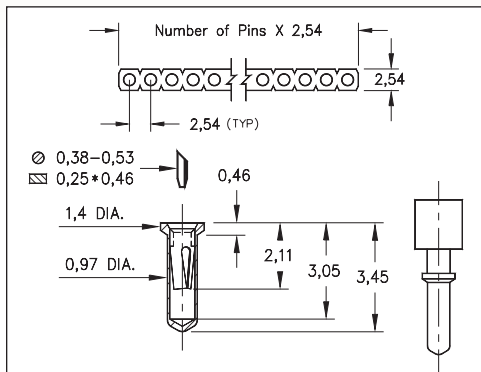


FIG. 1

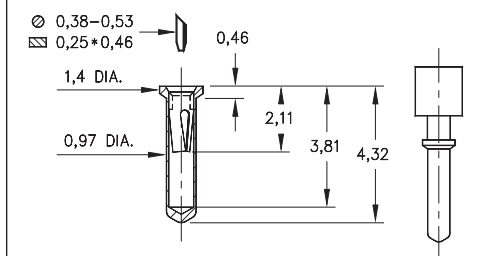


FIG. 2

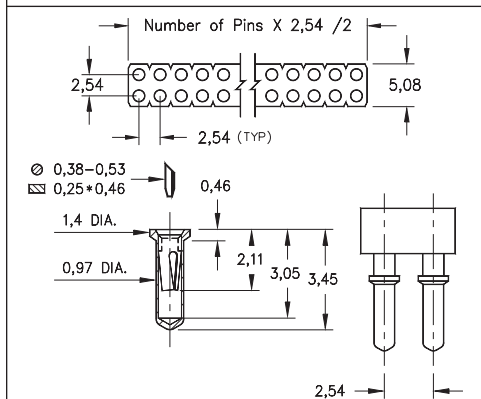


FIG. 3

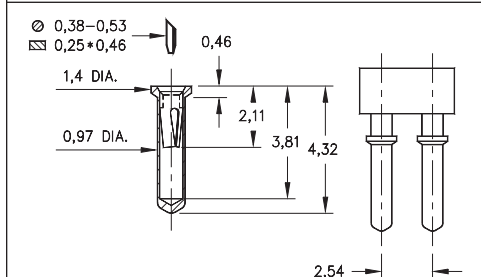
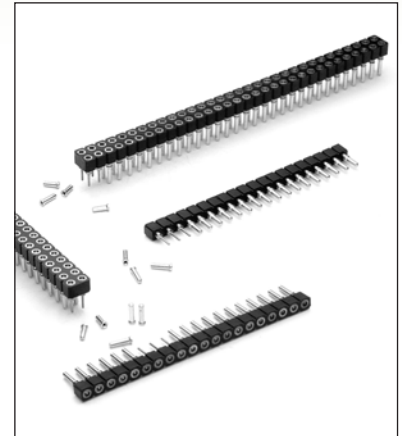


FIG. 4

- Ultra low profile receptacles sit 0,46 above the board
- Series 714 use MM #0552-1 and MM #0552-2 pin receptacles. See page 158 for details
- Hi-Rel, 3-finger BeCu #11 contact is rated at 3 amps. See page 251 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Single Row (0,99 min. mounting hole)	
	714-XX-1	-31-012000
	Specify number of pins	01-64
FIG. 2	Single Row (0,99 min. mounting hole)	
	714-XX-1	-31-018000
	Specify number of pins	01-64
FIG. 3	Double Row (0,99 min. mounting hole)	
	714-XX-2	-31-012000
	Specify number of pins	04-64
FIG. 4	Double Row (0,99 min. mounting hole)	
	714-XX-2	-31-018000
	Specify number of pins	04-64
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264		
SPECIFY PLATING CODE XX=		
Sleeve (Pin)	91	93
Contact (Clip)	41	43
	5,08µm Sn/Pb	5,08µm Sn
	0,25µm Au	0,76µm Au
	0,25µm Au	0,76µm Au

INTERCONNECTS

SERIES 335, 364, 435, 464 • 2,54 GRID (0,46 DIA. PINS), LOW PROFILE • SINGLE AND DOUBLE ROW STRIPS

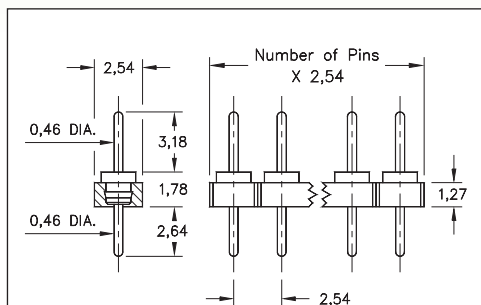


FIG. 1

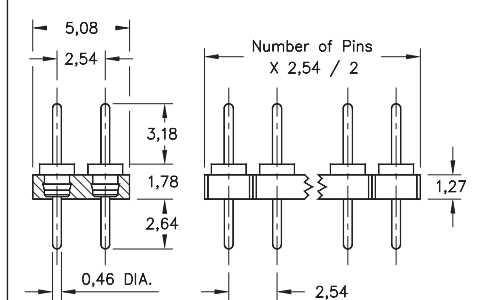


FIG. 2

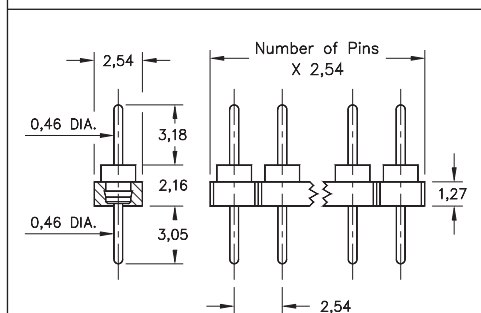


FIG. 3

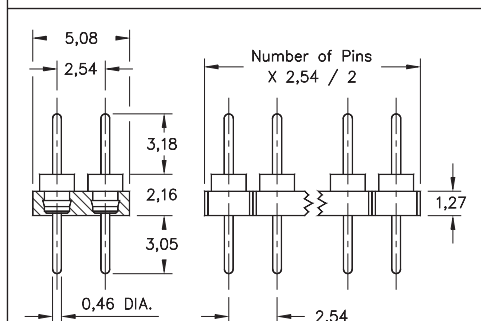


FIG. 4

- Series 335 and 435 single and double row PCB interconnects offer a 1,78 profile, the lowest available
- Series 364 and 464 single and double row PCB interconnects offer 2,16 profile above board
- Series 335 and 435 use MM #3516 pins. See page 212 for details
- Series 364 and 464 use MM #6458 pins. See page 213 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 335...160	Single Row 1,78 Profile Pin Header										
	335-XX-1--00-160000 Specify number of pins 01-32											
FIG. 2	Series 435...160	Double Row 1,78 Profile Pin Header										
	435-XX-2--00-160000 Specify number of pins 04-72											
FIG. 3	Series 364...580	Single Row 2,16 Profile Pin Header										
	364-10-1--00-580000 Specify number of pins 01-32											
FIG. 4	Series 464...580	Double Row 2,16 Profile Pin Header										
	464-10-2--00-580000 Specify number of pins 04-72											
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264 <table><tr><td>SPECIFY PLATING CODE XX=</td><td>10</td><td>90</td><td>40</td><td></td></tr><tr><td>Pin Plating</td><td>0,25µm Au</td><td>5,08µm Sn/Pb</td><td>5,08µm Sn</td><td></td></tr></table>			SPECIFY PLATING CODE XX=	10	90	40		Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	
SPECIFY PLATING CODE XX=	10	90	40									
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn									

INTERCONNECTS

SERIES 351 • 2,54 GRID INTERCONNECT HEADERS • SINGLE ROW STRIPS

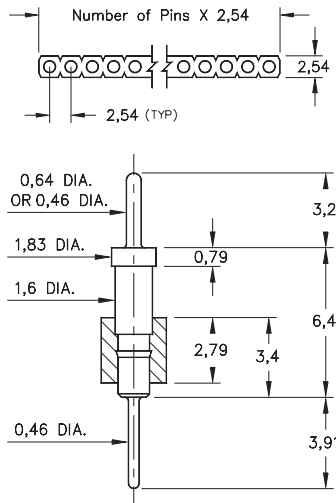


FIG. 1

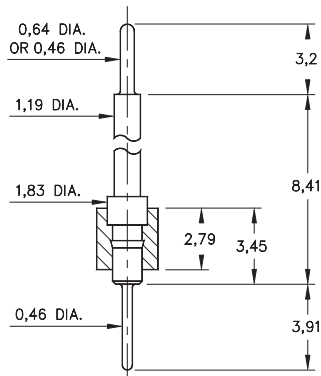


FIG. 2

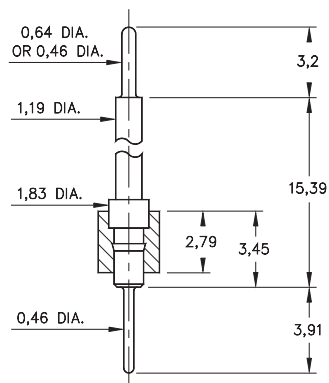


FIG. 3

- Series 351 interconnect header strips come in three lengths with 0,46 dia. pluggable solder tails at one end and 0,64 dia. pins at the other. Please see series:

351...003 uses pin #5503
351...004 uses pin #5504
351...005 uses pin #5505

- 0,46 pluggable solder tails are available at both ends. Please see series:

351...009 uses pin #5509
351...010 uses pin #5510
351...011 uses pin #5511

See pages 212 and 214 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 351...003	0,46 / 0,64 Dia. Solder Tails
	351-10-1	-00-003000
	Specify number of pins	01-64
FIG. 2	Series 351...009	0,46 / 0,46 Dia. Solder Tails
	351-10-1	-00-009000
	Specify number of pins	01-64
FIG. 3	Series 351...004	0,46 / 0,64 Dia. Solder Tails
	351-10-1	-00-004000
	Specify number of pins	01-64
FIG. 3	Series 351...010	0,46 / 0,46 Dia. Solder Tails
	351-10-1	-00-010000
	Specify number of pins	01-64
FIG. 3	Series 351...005	0,46 / 0,64 Dia. Solder Tails
	351-10-1	-00-005000
	Specify number of pins	01-64
FIG. 3	Series 351...011	0,46 / 0,46 Dia. Solder Tails
	351-10-1	-00-011000
	Specify number of pins	01-64
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264		
SPECIFY PLATING CODE XX=		
Pin Plating		
10 ◆		
0,25µm Au		

INTERCONNECTS

SERIES 451 • 2,54 GRID INTERCONNECT HEADERS • DOUBLE ROW STRIPS

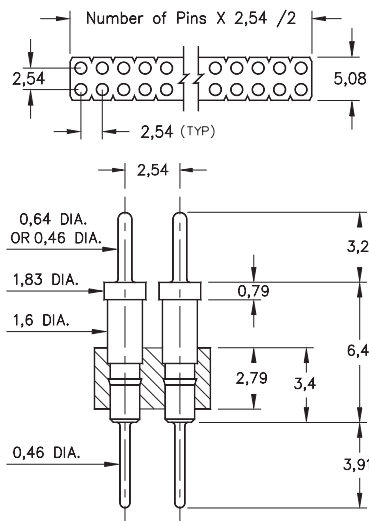


FIG. 1

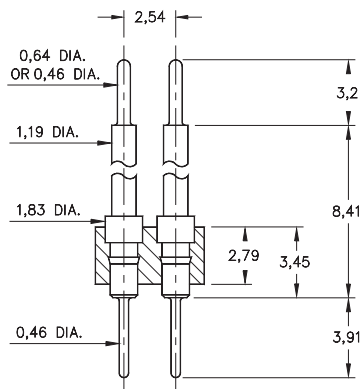


FIG. 2

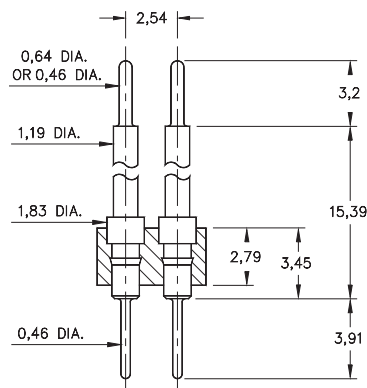


FIG. 3

- Series 451 interconnect header strips come in three lengths with 0,46 dia. pluggable solder tails at one end and 0,64 dia. pins at the other. Please see series:

451...003 uses pin #5503
451...004 uses pin #5504
451...005 uses pin #5505

- 0,46 pluggable solder tails are available at both ends. Please see series:

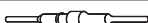
451...009 uses pin #5509
451...010 uses pin #5510
451...011 uses pin #5511

See pages 212 and 214 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 451...003	0,46 / 0,64 Dia. Solder Tails
	451-10-2	-00-003000
	Specify number of pins	04-64
FIG. 2	Series 451...009	0,46 / 0,46 Dia. Solder Tails
	451-10-2	-00-009000
	Specify number of pins	04-64
FIG. 3	Series 451...004	0,46 / 0,64 Dia. Solder Tails
	451-10-2	-00-004000
	Specify number of pins	04-64
FIG. 3	Series 451...010	0,46 / 0,46 Dia. Solder Tails
	451-10-2	-00-010000
	Specify number of pins	04-64
FIG. 3	Series 451...005	0,46 / 0,64 Dia. Solder Tails
	451-10-2	-00-005000
	Specify number of pins	04-64
FIG. 3	Series 451...011	0,46 / 0,46 Dia. Solder Tails
	451-10-2	-00-011000
	Specify number of pins	04-64
RoHS-2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264		
SPECIFY PLATING CODE XX=		
Pin Plating 		
10 		
0,25µm Au		

INTERCONNECTS

SERIES 334 • 2,54 GRID INTERCONNECT HEADERS • SINGLE ROW STRIPS

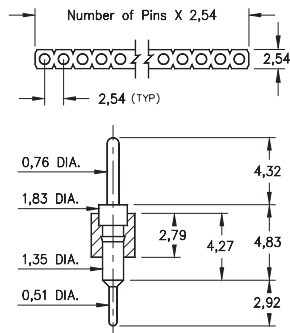


FIG. 1

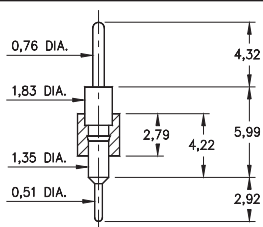


FIG. 2

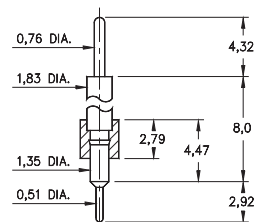


FIG. 3

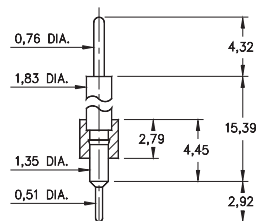


FIG. 4

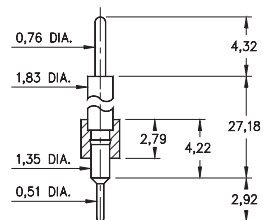


FIG. 5

- Series 334 interconnect header strips are available in 5 lengths:

334...020 uses pin #3402 (L = 4,83)
 334...010 uses pin #3401 (L = 5,99)
 334...050 uses pin #3405 (L = 8,0)
 334...000 uses pin #3400 (L = 15,39)
 334...100 uses pin #3410 (L = 27,18)
 See page 215 for details

- Strips come with 0,51 pluggable soldertails at one end and 0,76 tails at the other
- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 334...020	0,51 / 0,76 Dia. Solder Tails
	334-XX-1	-00-020000 Specify number of pins 01-64
FIG. 2	Series 334...010	0,51 / 0,76 Dia. Solder Tails
	334-XX-1	-00-010000 Specify number of pins 01-64
FIG. 3	Series 334...050	0,51 / 0,76 Dia. Solder Tails
	334-XX-1	-00-050000 Specify number of pins 01-64
FIG. 4	Series 334...000	0,51 / 0,76 Dia. Solder Tails
	334-XX-1	-00-000000 Specify number of pins 01-64
FIG. 5	Series 334...100	0,51 / 0,76 Dia. Solder Tails
	334-XX-1	-00-100000 Specify number of pins 01-64
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Enviromental Data, See page 264		
SPECIFY PLATING CODE XX=		
Pin Plating		
10	90	40
0,25µm Au	5,08µm Sn/Pb	5,08µm Sn

INTERCONNECTS

SERIES 342 • 2,54 GRID BOARD STACKING HEADERS • SINGLE ROW STRIPS

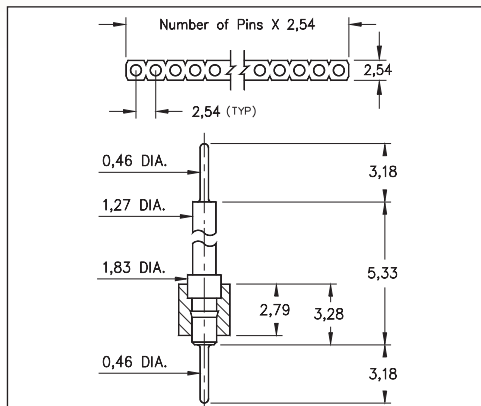


FIG. 1

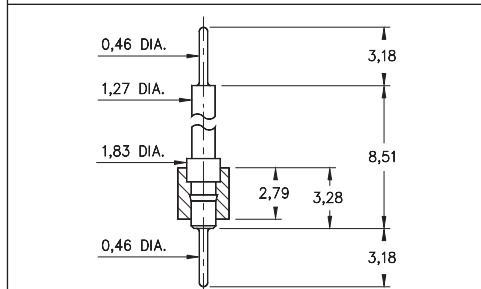


FIG. 2

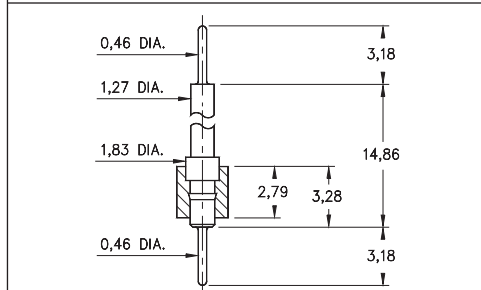


FIG. 3

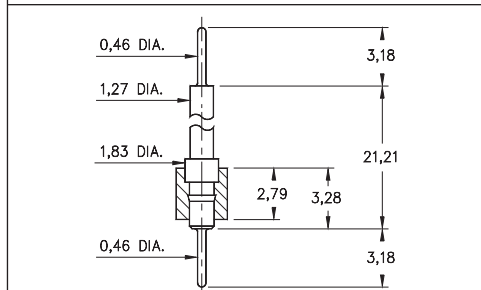


FIG. 4

- Series 342 interconnect header strips come in four heights with 0,46 dia. pluggable solder tails at both ends

342...591 uses pin #4259-1 (L = 5,33)
 342...592 uses pin #4259-2 (L = 8,51)
 342...593 uses pin #4259-3 (L = 14,86)
 342...594 uses pin #4259-4 (L = 21,21)
 See page 212 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 342...591	0,46 / 0,46 Dia. Solder Tails		
	342-XX-1	-00-591000	Specify number of pins 01-64	
FIG. 2	Series 342...592	0,46 / 0,46 Dia. Solder Tails		
	342-XX-1	-00-592000	Specify number of pins 01-64	
FIG. 3	Series 342...593	0,46 / 0,46 Dia. Solder Tails		
	342-XX-1	-00-593000	Specify number of pins 01-64	
FIG. 4	Series 342...594	0,46 / 0,46 Dia. Solder Tails		
	342-XX-1	-00-594000	Specify number of pins 01-64	
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Enviromental Data, See page 264				
SPECIFY PLATING CODE XX=		10	90	40
Pin Plating		0,25µm Au	5,08µm Sn/Pb	5,08µm Sn

INTERCONNECTS

SERIES 442 • 2,54 GRID BOARD STACKING HEADERS • DOUBLE ROW STRIPS

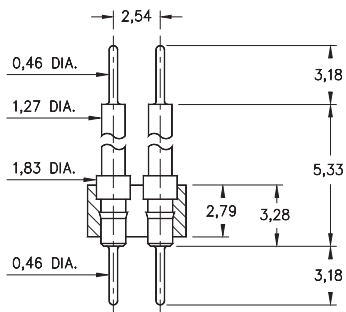


FIG. 1

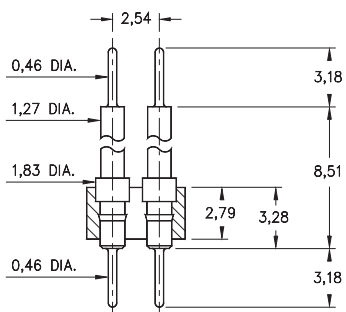


FIG. 2

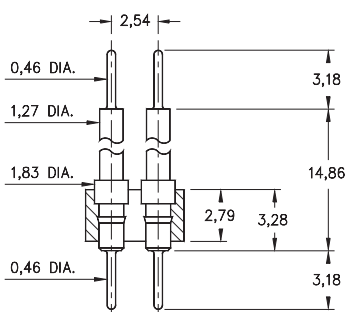


FIG. 3

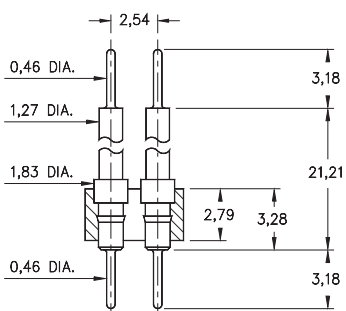


FIG. 4

- Series 442 interconnect header strips come in four heights with 0,46 dia. pluggable solder tails at both ends

442...591 uses pin #4259-1 (L = 5,33)

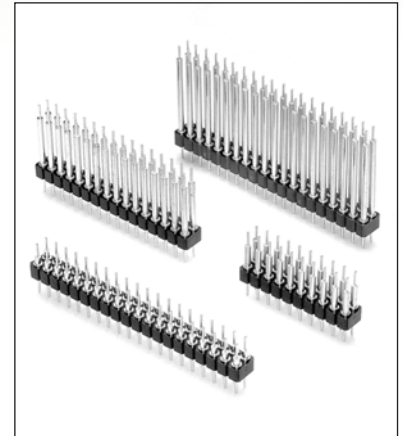
442...592 uses pin #4259-2 (L = 8,51)

442...593 uses pin #4259-3 (L = 14,86)

442...594 uses pin #4259-4 (L = 21,21)

See page 212 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 442...591	0,46 / 0,46 Dia. Solder Tails		
	442-XX-2	-00-591000		
FIG. 2	Series 442...592	0,46 / 0,46 Dia. Solder Tails		
	442-XX-2	-00-592000		
FIG. 3	Series 442...593	0,46 / 0,46 Dia. Solder Tails		
	442-XX-2	-00-593000		
FIG. 4	Series 442...594	0,46 / 0,46 Dia. Solder Tails		
	442-XX-2	-00-594000		
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264				
SPECIFY PLATING CODE XX=				
Pin Plating	10	90	40	
	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

INTERCONNECTS

SERIES 350, 360, 370, 380 • 2,54 GRID SOLDER TAIL • SINGLE ROW STRIPS

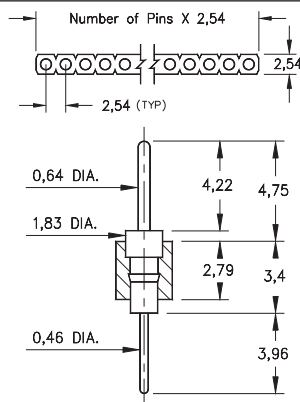


FIG. 1

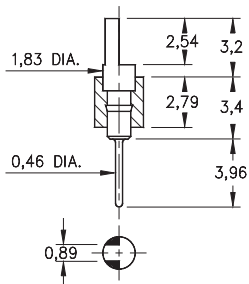


FIG. 2

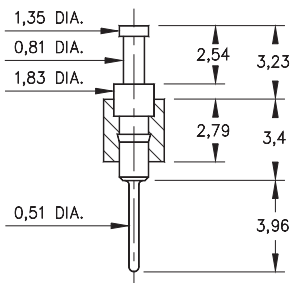


FIG. 3

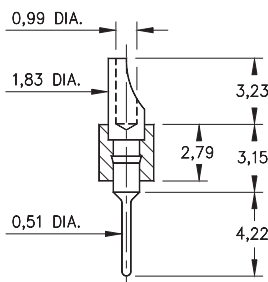


FIG. 4

- Series 350, 360, 370 & 380 single row header strips come in various styles (pin, slotted, head, turret and solder cup) with pluggable solder tails

350...001 uses pin #0290

360...001 uses pin #0282

370...001 uses pin #0700

380...001 uses pin #8000

See pages 215 and 216 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 350...001	0,64 / 0,46 Dia. Solder Tails		
	350-XX-1	-00-001000	Specify number of pins 01-64	
FIG. 2	Series 360...001	Slotted Head / Solder Tail		
	360-XX-1	-00-001000	Specify number of pins 01-64	
FIG. 3	Series 370...001	Turret / Solder Tail		
	370-XX-1	-00-001000	Specify number of pins 01-64	
FIG. 4	Series 380...001	Solder Cup / Solder Tail		
	380-XX-1	-00-001000	Specify number of pins 01-64	
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Enviromental Data, See page 264				
SPECIFY PLATING CODE XX=		10	90	40
Pin Plating		0,25µm Au	5,08µm Sn/Pb	5,08µm Sn

INTERCONNECTS

SERIES 450, 460, 470, 480 • 2,54 GRID SOLDER TAIL • DOUBLE ROW STRIPS

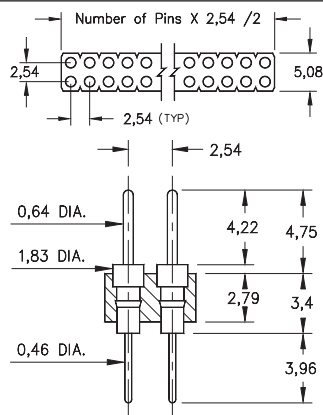


FIG. 1

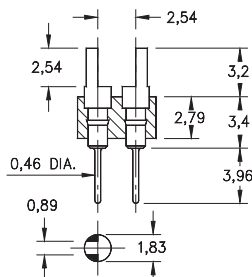


FIG. 2

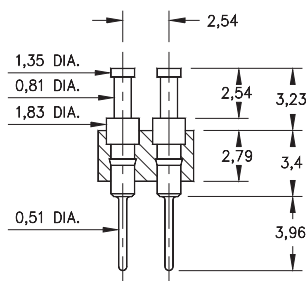


FIG. 3

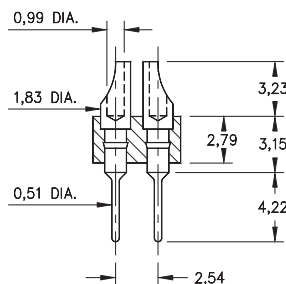


FIG. 4

- Series 450, 460, 470 & 480 double row header strips come in various styles (pin, slotted, head, turret and solder cup) with pluggable solder tails

450...001 uses pin #0290

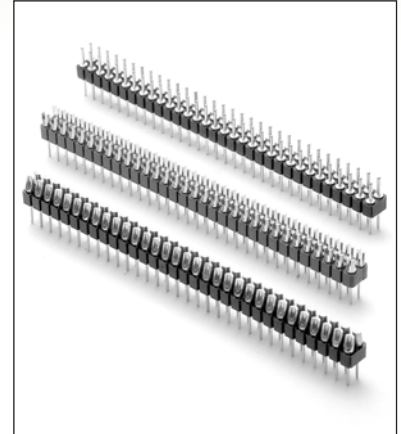
460...001 uses pin #0282

470...001 uses pin #0700

480...001 uses pin #8000

See pages 215 and 216 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 450...001	0,64 / 0,46 Dia. Solder Tails		
	450-XX-2	-00-001000	Specify number of pins	
			04-64	
FIG. 2	Series 460...001	Slotted Head / Solder Tail		
	460-10-2	-00-001000	Specify number of pins	
			02-64	
FIG. 3	Series 470...001	Turret / Solder Tail		
	470-XX-2	-00-001000	Specify number of pins	
			04-64	
FIG. 4	Series 480...001	Solder Cup / Solder Tail		
	480-10-2	-00-001000	Specify number of pins	
			02-64	
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264				
SPECIFY PLATING CODE XX=		10	90	40
Pin Plating		0,25µm Au	5,08µm Sn/Pb	5,08µm Sn



INTERCONNECTS

SERIES 353, 362, 363, 373, 382, 383 • 2,54 GRID WRAPOST • SINGLE ROW STRIPS

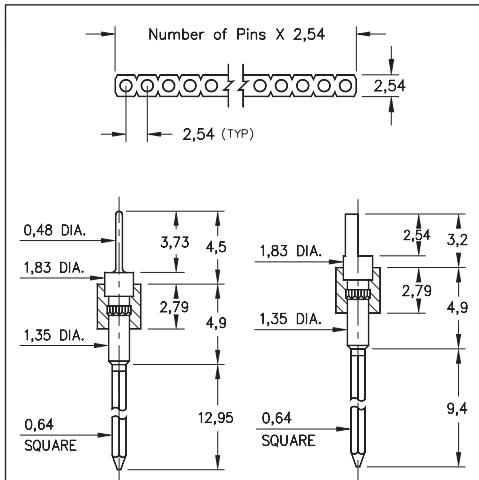


FIG. 1

FIG. 2

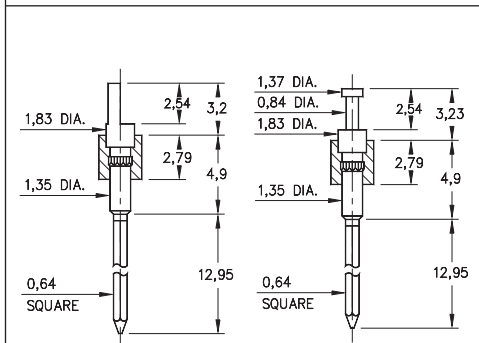


FIG. 3

FIG. 4

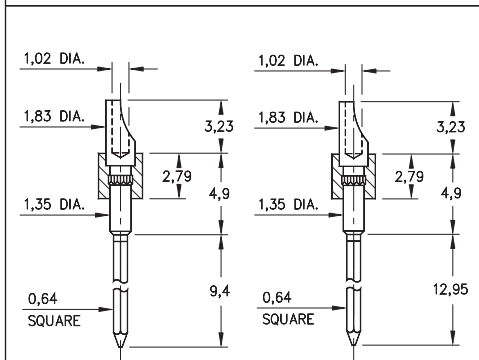


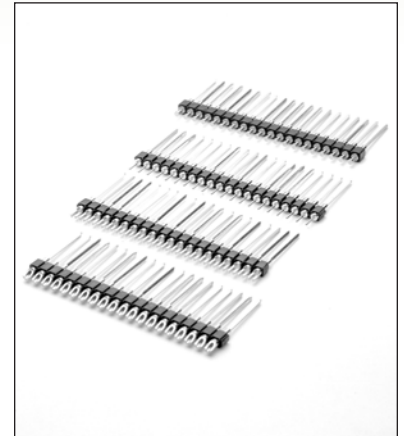
FIG. 5

FIG. 6

- Series 353, 362, 363, 373, 382 and 383 single row header strips come in various styles (pin, slotted head, turret and solder cup) with wrapost tails

353...001 uses pin #5301
 362...001 uses pin #1106-2
 363...001 uses pin #1106-3
 373...001 uses pin #0730-3
 382...001 uses pin #8301-2
 383...001 uses pin #8301-3
 See pages 227 and 228 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations



ORDERING INFORMATION

FIG. 1	Series 353...001	Pin / 3 Level Wrapost
	353-XX-1	-00-001000 Specify number of pins 01-64
FIG. 2	Series 362...001	Slotted Head / 2 Level Wrapost
	362-XX-1	-00-001000 Specify number of pins 01-64
FIG. 3	Series 363...001	Slotted Head / 3 Level Wrapost
	363-XX-1	-00-001000 Specify number of pins 01-64
FIG. 4	Series 373...001	Turret / 3 Level Wrapost
	373-XX-1	-00-001000 Specify number of pins 01-64
FIG. 5	Series 382...001	Solder Cup / 2 Level Wrapost
	382-XX-1	-00-001000 Specify number of pins 01-64
FIG. 6	Series 383...001	Solder Cup / 3 Level Wrapost
	383-XX-1	-00-001000 Specify number of pins 01-64
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Environmental Data, See page 264		
SPECIFY PLATING CODE XX=		
Pin Plating		
10	90	40
0,25µm Au	5,08µm Sn/Pb	5,08µm Sn

INTERCONNECTS

SERIES 453, 463, 473, 483 • 2,54 GRID WRAPOST • DOUBLE ROW STRIPS

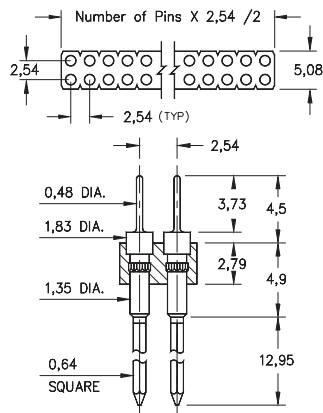


FIG. 1

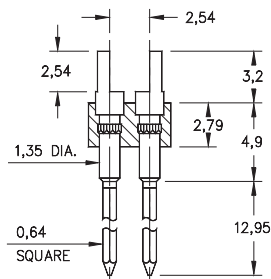


FIG. 2

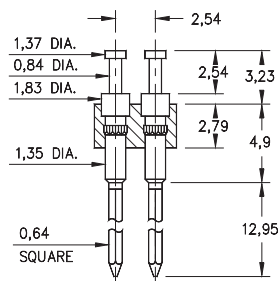


FIG. 3

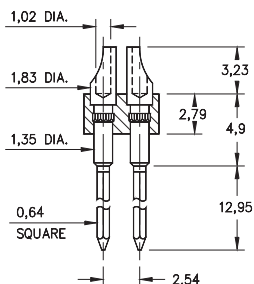


FIG. 4

- Series 453, 463, 473, and 483 double row header strips come in various styles (pin, slotted head, turret and solder cup) with wrapost tails

453...001 uses pin #5301

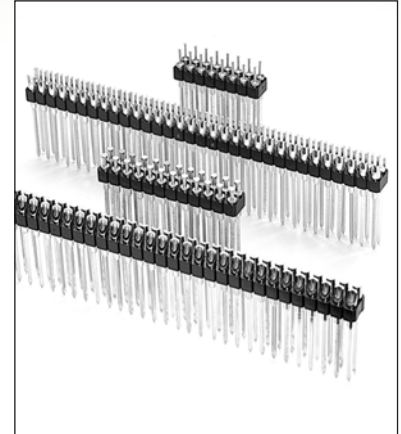
463...001 uses pin #1106-3

473...001 uses pin #0730-3

483...001 uses pin #8301-3

See pages 227 and 228 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations



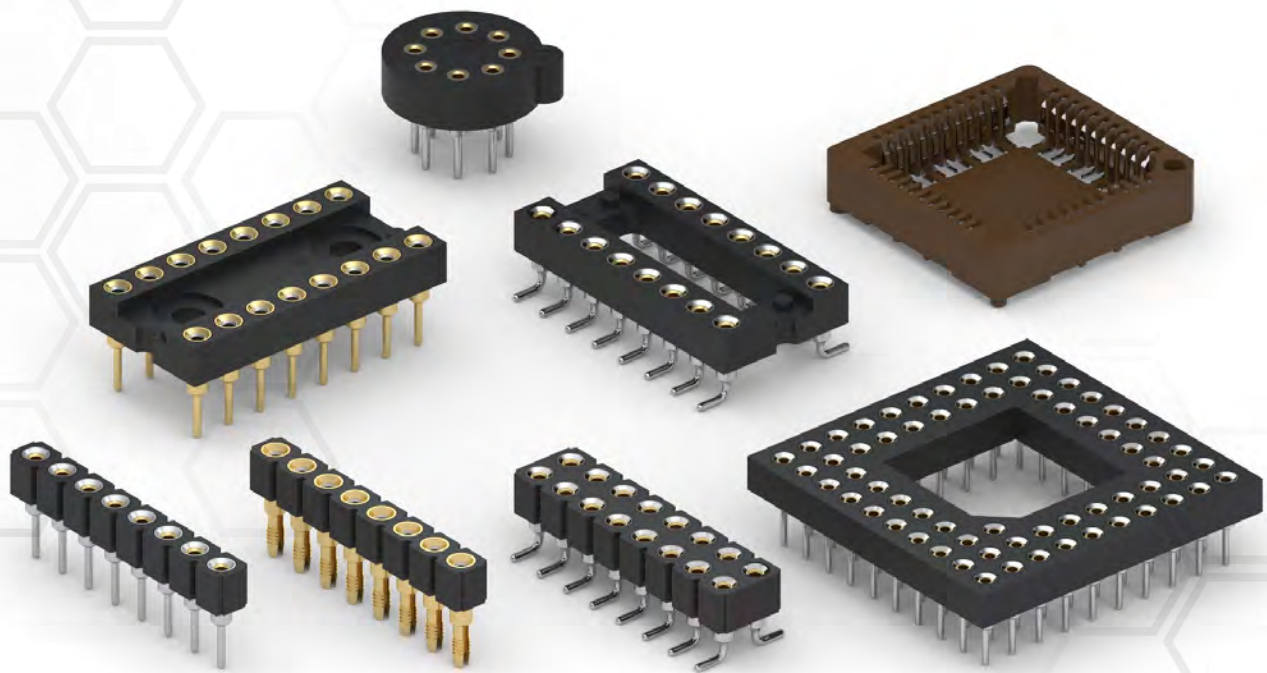
ORDERING INFORMATION

FIG. 1	Series 453...001	Pin / 3 Level Wrapost
	453-10-2	-00-001000 Specify number of pins 04-64
FIG. 2	Series 463...001	Slotted Head / 3 Level Wrapost
	463-XX-2	-00-001000 Specify number of pins 02-64
FIG. 3	Series 473...001	Turret / 3 Level Wrapost
	473-XX-2	-00-001000 Specify number of pins 04-64
FIG. 4	Series 483...001	Solder Cup / 3 Level Wrapost
	483-XX-2	-00-001000 Specify number of pins 02-64
RoHS - 2 2011/65/EU XX=Plating Code See Below For Electrical, Mechanical & Enviromental Data, See page 264		
SPECIFY PLATING CODE XX=		
Pin Plating		
10	90	40
0,25µm Au	5,08µm Sn/Pb	5,08µm Sn



WWW.MILL-MAX.COM

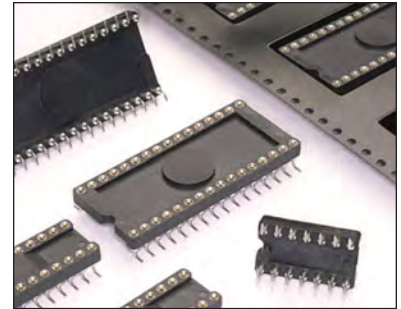
IC SOCKETS TO SOCKETS





WWW.MILL-MAX.COM

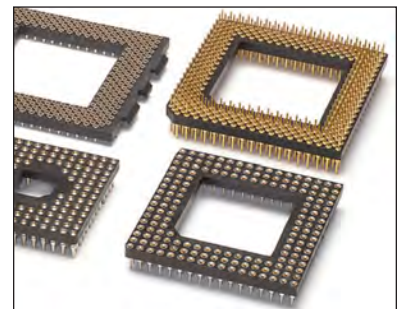
MILL-MAX IC SOCKETS PROVIDE A VARIETY OF OPTIONS FOR MAKING DEVICE-TO-BOARD CONNECTIONS. Our IC Sockets utilize the Mill-Max receptacle as the connection between the IC device and the circuit board. The precision-machined receptacle shell is available in multiple variations to fit many applications. We offer a wide choice of sockets in several board termination types including: solder-tail, press-fit, surface mount and wrapost. These sockets allow for upgradeability and field repair and provide versatility for device substitution between models of a product line.



IC Sockets can be loaded manually for soldering or press-fitting, or when volume placement is required, sockets can be packaged on tape and reel providing labor-saving solutions for our customers.

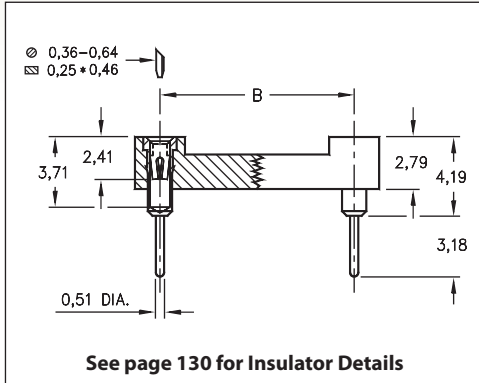


We will gladly quote custom application-specific products in addition to the products found on the following pages.

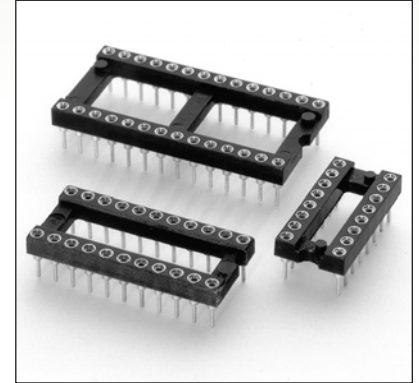


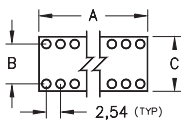
DUAL-IN-LINE SOCKETS

SERIES 110...001 • STANDARD SOLDER TAIL • OPEN FRAME



- All DIP sockets accept 0,38 - 0,64 diameter and standard IC leads
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 110 uses MM #1001 pins. See page 165 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins				Quantity per tube	ORDERING INFORMATION							
	A	B	C									
10	12,6	5,08	7,6	40	110-XX-210-41-001000							
4	5,0	7,62	10,1	102	110-XX-304-41-001000							
6	7,6	7,62	10,1	67	110-XX-306-41-001000							
8	10,1	7,62	10,1	50	110-XX-308-41-001000							
10	12,6	7,62	10,1	40	110-XX-310-41-001000							
14	17,7	7,62	10,1	28	110-XX-314-41-001000							
16	20,3	7,62	10,1	25	110-XX-316-41-001000							
18	22,8	7,62	10,1	22	110-XX-318-41-001000							
20	25,3	7,62	10,1	20	110-XX-320-41-001000							
22	27,8	7,62	10,1	18	110-XX-322-41-001000							
24	30,4	7,62	10,1	16	110-XX-324-41-001000							
28	35,5	7,62	10,1	14	110-XX-328-41-001000							
20	25,4	10,16	12,7	20	110-XX-420-41-001000							
22	27,8	10,16	12,7	18	110-XX-422-41-001000							
24	30,4	10,16	12,7	16	110-XX-424-41-001000							
28	35,5	10,16	12,7	14	110-XX-428-41-001000							
32	40,6	10,16	12,7	12	110-XX-432-41-001000							
24	30,4	15,24	17,7	16	110-XX-624-41-001000							
28	35,5	15,24	17,7	14	110-XX-628-41-001000							
32	40,6	15,24	17,7	12	110-XX-632-41-001000							
36	45,7	15,24	17,7	11	110-XX-636-41-001000							
40	50,8	15,24	17,7	10	110-XX-640-41-001000							
42	53,3	15,24	17,7	9	110-XX-642-41-001000							
48	60,9	15,24	17,7	8	110-XX-648-41-001000							
50	63,5	15,24	17,7	8	110-XX-650-41-001000							
52	66,0	15,24	17,7	7	110-XX-652-41-001000							
50	63,5	22,86	25,3	8	110-XX-950-41-001000							
52	66,0	22,86	25,3	7	110-XX-952-41-001000							
64	81,2	22,86	25,3	6	110-XX-964-41-001000							
SPECIFY PLATING CODE XX =					11	13	91	93	99	41	43	44
Sleeve (Pin) 					0,25µm Au	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip) 					0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	2,54µm Sn/Pb	0,25µm Au	0,76µm Au	2,54µm Sn

XX=Plating Code
See Below

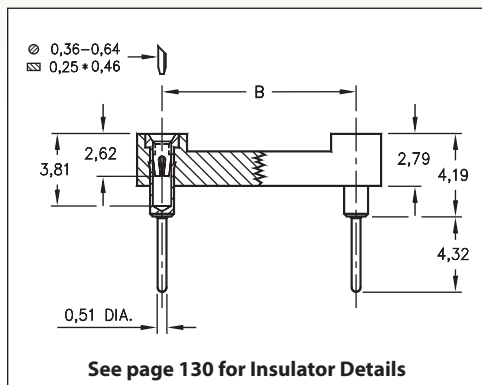
RoHS-2
2011/65/EU



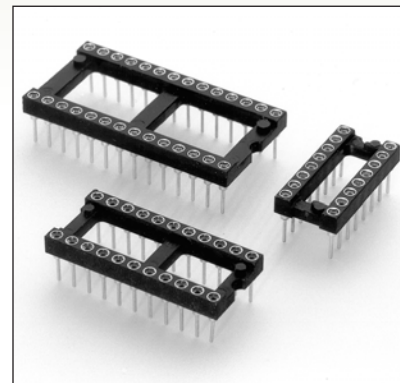
Mill-Max Mfg. Corp. • 190 Pine Hollow Road, P.O. Box 300, Oyster Bay, NY 11771 • 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com

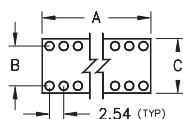
DUAL-IN-LINE SOCKETS

SERIES 111 • LONG SOLDER TAIL FOR MULTI-LAYER PCB • OPEN FRAME



- DIP sockets with increased solder tail length of 4,32, allowing application on multi-layer PCBs up to 3,53mm thick
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 111 uses MM #0134 pins. See page 165 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins				Quantity per tube	ORDERING INFORMATION						
	A	B	C								
10	12,6	5,08	7,6	40		111-XX-210-41-001000					
4	5,0	7,62	10,1	102		111-XX-304-41-001000					
6	7,6	7,62	10,1	67		111-XX-306-41-001000					
8	10,1	7,62	10,1	50		111-XX-308-41-001000					
10	12,6	7,62	10,1	40		111-XX-310-41-001000					
14	17,7	7,62	10,1	28		111-XX-314-41-001000					
16	20,3	7,62	10,1	25		111-XX-316-41-001000					
18	22,8	7,62	10,1	22		111-XX-318-41-001000					
20	25,3	7,62	10,1	20	111-XX-320-41-001000						
22	27,8	7,62	10,1	18	111-XX-322-41-001000						
24	30,4	7,62	10,1	16	111-XX-324-41-001000						
28	35,5	7,62	10,1	14	111-XX-328-41-001000						
20	25,4	10,16	12,7	20	111-XX-420-41-001000						
22	27,8	10,16	12,7	18	111-XX-422-41-001000						
24	30,4	10,16	12,7	16	111-XX-424-41-001000						
28	35,5	10,16	12,7	14	111-XX-428-41-001000						
32	40,6	10,16	12,7	12	111-XX-432-41-001000						
24	30,4	15,24	17,7	16	111-XX-624-41-001000						
28	35,5	15,24	17,7	14	111-XX-628-41-001000						
32	40,6	15,24	17,7	12	111-XX-632-41-001000						
36	45,7	15,24	17,7	11	111-XX-636-41-001000						
40	50,8	15,24	17,7	10	111-XX-640-41-001000						
42	53,3	15,24	17,7	9	111-XX-642-41-001000						
48	60,9	15,24	17,7	8	111-XX-648-41-001000						
50	63,5	15,24	17,7	8	111-XX-650-41-001000						
52	66,0	15,24	17,7	7	111-XX-652-41-001000						
50	63,5	22,86	25,3	8	111-XX-950-41-001000						
52	66,0	22,86	25,3	7	111-XX-952-41-001000						
64	81,2	22,86	25,3	6	111-XX-964-41-001000						
SPECIFY PLATING CODE XX =						91	93		41 ◆	43 ◆	
Sleeve (Pin) 						5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn	
Contact (Clip) 						0,25µm Au	0,25µm Au		0,25µm Au	0,25µm Au	

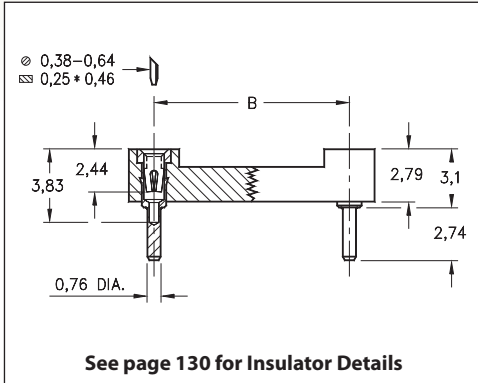
XX=Plating Code
See Below

RoHS-2
2011/65/EU

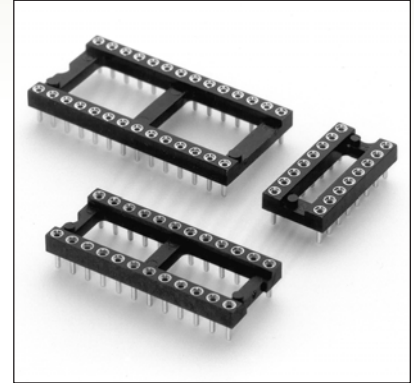


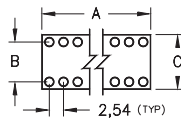
DUAL-IN-LINE SOCKETS

SERIES 115...001 • VERY LOW PROFILE • OPEN FRAME



- Low profile DIP socket, sits only 3,1mm above the PCB
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 115 uses MM #0501 pins. See page 162 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details

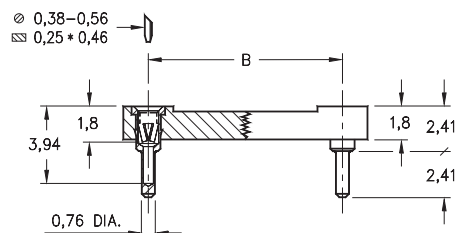


Total number of pins				Quantity per tube	ORDERING INFORMATION	
	A	B	C			
10	12,6	5,08	7,6	41	115-XX-210-41-001000	
4	5,0	7,62	10,1	102	115-XX-304-41-001000	
6	7,6	7,62	10,1	67	115-XX-306-41-001000	
8	10,1	7,62	10,1	50	115-XX-308-41-001000	
10	12,6	7,62	10,1	40	115-XX-310-41-001000	
14	17,7	7,62	10,1	28	115-XX-314-41-001000	
16	20,3	7,62	10,1	25	115-XX-316-41-001000	
18	22,8	7,62	10,1	22	115-XX-318-41-001000	
20	25,3	7,62	10,1	20	115-XX-320-41-001000	
22	27,8	7,62	10,1	18	115-XX-322-41-001000	
24	30,4	7,62	10,1	16	115-XX-324-41-001000	
28	35,5	7,62	10,1	14	115-XX-328-41-001000	
20	25,4	10,16	12,7	20	115-XX-420-41-001000	
22	27,8	10,16	12,7	18	115-XX-422-41-001000	
24	30,4	10,16	12,7	16	115-XX-424-41-001000	
28	35,5	10,16	12,7	14	115-XX-428-41-001000	
32	40,6	10,16	12,7	12	115-XX-432-41-001000	
24	30,4	15,24	17,7	16	115-XX-624-41-001000	
28	35,5	15,24	17,7	14	115-XX-628-41-001000	
32	40,6	15,24	17,7	12	115-XX-632-41-001000	
36	45,7	15,24	17,7	11	115-XX-636-41-001000	
40	50,8	15,24	17,7	10	115-XX-640-41-001000	
42	53,3	15,24	17,7	9	115-XX-642-41-001000	
48	60,9	15,24	17,7	8	115-XX-648-41-001000	
50	63,5	15,24	17,7	8	115-XX-650-41-001000	
52	66,0	15,24	17,7	7	115-XX-652-41-001000	
50	63,5	22,86	25,3	8	115-XX-950-41-001000	
52	66,0	22,86	25,3	7	115-XX-952-41-001000	
64	81,2	22,86	25,3	6	115-XX-964-41-001000	
XX=Plating Code See Below						
SPECIFY PLATING CODE XX =					91	93
Sleeve (Pin) 					5,08µm Sn/Pb	5,08µm Sn/Pb
Contact (Clip) 					0,25µm Au	0,76µm Au
					41 	43 



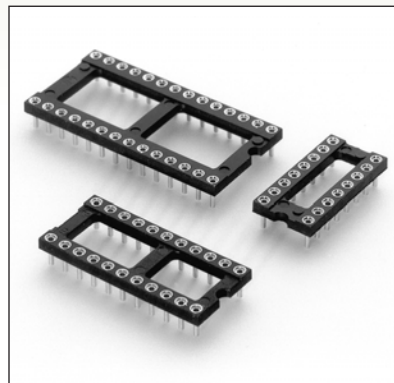
DUAL-IN-LINE SOCKETS

SERIES 115...003 • ULTRA LOW PROFILE • OPEN FRAME



See page 131 for Insulator Details

- Our lowest profile DIP socket with an above PCB height of only 2,41mm
- Special short Hi-Rel, 4-finger BeCu #12 contact is rated at 3 amps. See page 252 for details
- Series 115 uses MM #1534 pins. See page 161 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



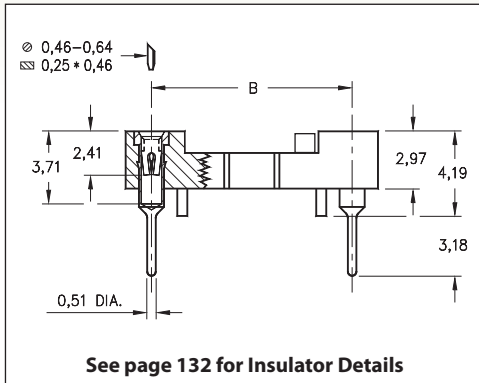
ORDERING INFORMATION

Total number of pins				Quantity per tube			
	A	B	C				
6	7,6	7,62	10,1	68	115-XX-306-41-003000		
8	10,1	7,62	10,1	50	115-XX-308-41-003000		
14	17,7	7,62	10,1	28	115-XX-314-41-003000		
16	20,3	7,62	10,1	25	115-XX-316-41-003000		
18	22,8	7,62	10,1	22	115-XX-318-41-003000		
20	25,3	7,62	10,1	20	115-XX-320-41-003000		
22	27,8	7,62	10,1	18	115-XX-322-41-003000		
24	30,4	7,62	10,1	16	115-XX-324-41-003000		
28	35,5	7,62	10,1	14	115-XX-328-41-003000		
20	25,4	10,16	12,7	20	115-XX-420-41-003000		
22	27,8	10,16	12,7	18	115-XX-422-41-003000		
24	30,4	10,16	12,7	16	115-XX-424-41-003000		
28	35,5	10,16	12,7	14	115-XX-428-41-003000		
24	30,4	15,24	17,7	16	115-XX-624-41-003000		
28	35,5	15,24	17,7	14	115-XX-628-41-003000		
32	40,6	15,24	17,7	12	115-XX-632-41-003000		
36	45,7	15,24	17,7	11	115-XX-636-41-003000		
40	50,8	15,24	17,7	10	115-XX-640-41-003000		
48	60,9	15,24	17,7	8	115-XX-648-41-003000		
50	63,5	15,24	17,7	8	115-XX-650-41-003000		
					XX=Plating Code See Below		
					RoHS-2 2011/65/EU		
SPECIFY PLATING CODE XX =					91	93	
Sleeve (Pin)					5,08µm Sn/Pb	5,08µm Sn/Pb	
Contact (Clip)					0,25µm Au	0,76µm Au	
					41	43	44
					5,08µm Sn	5,08µm Sn	5,08µm Sn
					0,25µm Au	0,76µm Au	2,54µm Sn

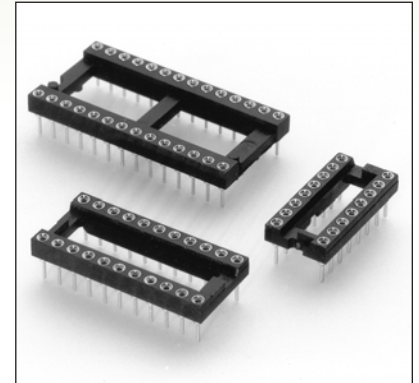


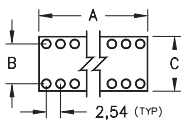
DUAL-IN-LINE SOCKETS

SERIES 110...605 • AUTOMATIC INSERTION • OPEN FRAME



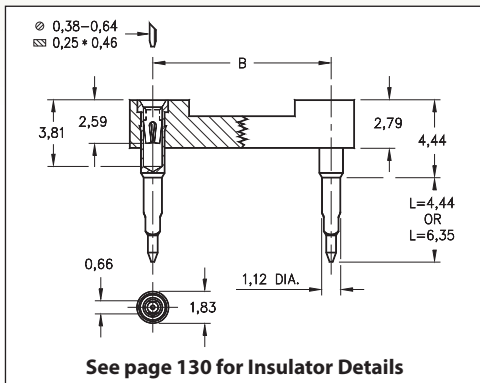
- High temperature thermoplastic insulator with standoffs is compatible with standard automatic insertion equipment and all soldering processes
- Soft copper alloy machined pins allow clinching. Chamfered contact entry allows for ease of IC insertion without bent leads
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 110 uses MM #1005 pins. See page 166 for details
- For Electrical, Mechanical and Environmental Data, see page 264 for details



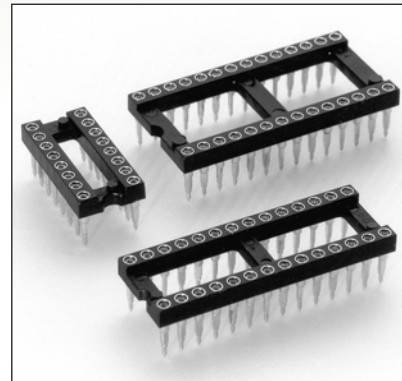
Total number of pins				Quantity per tube	ORDERING INFORMATION						
	A	B	C								
6	7,6	7,62	10,1	67	110-XX-306-41-605000						
8	10,1	7,62	10,1	50	110-XX-308-41-605000						
14	17,7	7,62	10,1	28	110-XX-314-41-605000						
16	20,3	7,62	10,1	25	110-XX-316-41-605000						
18	22,8	7,62	10,1	22	110-XX-318-41-605000						
20	25,3	7,62	10,1	20	110-XX-320-41-605000						
24	30,4	7,62	10,1	16	110-XX-324-41-605000						
22	27,8	10,16	12,7	18	110-XX-422-41-605000						
24	30,4	15,24	17,7	16	110-XX-624-41-605000						
28	35,5	15,24	17,7	14	110-XX-628-41-605000						
32	40,6	15,24	17,7	12	110-XX-632-41-605000						
40	50,8	15,24	17,7	10	110-XX-640-41-605000						
					XX=Plating Code See Below						
					RoHS-2 2011/65/EU						
SPECIFY PLATING CODE XX =						91	93		41 ◆	43 ◆	
Sleeve (Pin) 						5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn	
Contact (Clip) 						0,25µm Au	0,76µm Au		0,25µm Au	0,76µm Au	

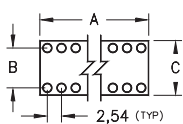
DUAL-IN-LINE SOCKETS

SERIES 104 • SOLDERLESS PRESS-FIT • OPEN FRAME



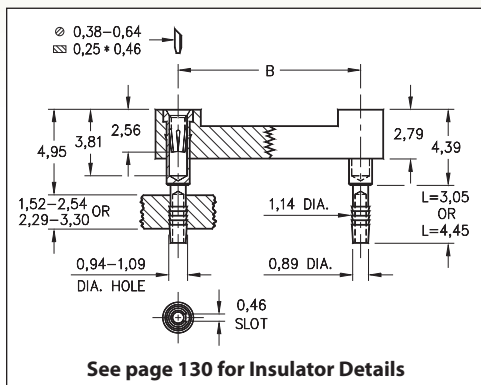
- Designed for solderless press-fit into plated through-holes
- Pin lengths are suitable for 1,57 and 2,36 - 3,18 thick panels
- Required plated through hole is 0,91 - 1,04. Use a 1.1mm drill prior to plating
- Series 104 uses MM #0477 or MM #0478 pins with a BeCu #30 contact, rated at 3 amps. See page 162 for details
- Insulators are high temperature thermoplastic
- For Electrical, Mechanical and Environmental Data, see page 264 for details



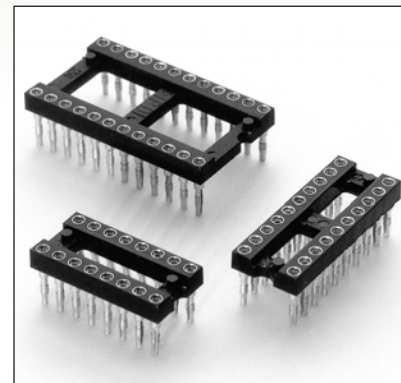
Total number of pins				Quantity per tube	ORDERING INFORMATION								
	A	B	C		L = 4,44 (for 1,57 thick panel)	L = 6,35 (for 3,18 thick panel)							
10	12,6	5,08	7,6	40	104-XX-210-41-770000	104-XX-210-41-780000	RoHS - 2 2011/65/EU XX=Plating Code See Below						
4	5,0	7,62	10,1	102	104-XX-304-41-770000	104-XX-304-41-780000							
6	7,6	7,62	10,1	67	104-XX-306-41-770000	104-XX-306-41-780000							
8	10,1	7,62	10,1	50	104-XX-308-41-770000	104-XX-308-41-780000							
10	12,6	7,62	10,1	40	104-XX-310-41-770000	104-XX-310-41-780000							
14	17,7	7,62	10,1	28	104-XX-314-41-770000	104-XX-314-41-780000							
16	20,3	7,62	10,1	25	104-XX-316-41-770000	104-XX-316-41-780000							
18	22,8	7,62	10,1	22	104-XX-318-41-770000	104-XX-318-41-780000							
20	25,3	7,62	10,1	20	104-XX-320-41-770000	104-XX-320-41-780000							
22	27,8	7,62	10,1	18	104-XX-322-41-770000	104-XX-322-41-780000							
24	30,4	7,62	10,1	16	104-XX-324-41-770000	104-XX-324-41-780000							
28	35,5	7,62	10,1	14	104-XX-328-41-770000	104-XX-328-41-780000							
20	25,4	10,16	12,7	20	104-XX-420-41-770000	104-XX-420-41-780000							
22	27,8	10,16	12,7	18	104-XX-422-41-770000	104-XX-422-41-780000							
24	30,4	10,16	12,7	16	104-XX-424-41-770000	104-XX-424-41-780000							
28	35,5	10,16	12,7	14	104-XX-428-41-770000	104-XX-428-41-780000							
32	40,6	10,16	12,7	12	104-XX-432-41-770000	104-XX-432-41-780000							
24	30,4	15,24	17,7	16	104-XX-624-41-770000	104-XX-624-41-780000							
28	35,5	15,24	17,7	14	104-XX-628-41-770000	104-XX-628-41-780000							
32	40,6	15,24	17,7	12	104-XX-632-41-770000	104-XX-632-41-780000							
36	45,7	15,24	17,7	11	104-XX-636-41-770000	104-XX-636-41-780000							
40	50,8	15,24	17,7	10	104-XX-640-41-770000	104-XX-640-41-780000							
42	53,3	15,24	17,7	9	104-XX-642-41-770000	104-XX-642-41-780000							
48	60,9	15,24	17,7	8	104-XX-648-41-770000	104-XX-648-41-780000							
50	63,5	15,24	17,7	8	104-XX-650-41-770000	104-XX-650-41-780000							
52	66,0	15,24	17,7	7	104-XX-652-41-770000	104-XX-652-41-780000							
50	63,5	22,86	25,3	8	104-XX-950-41-770000	104-XX-950-41-780000							
52	66,0	22,86	25,3	7	104-XX-952-41-770000	104-XX-952-41-780000							
64	81,2	22,86	25,3	6	104-XX-964-41-770000	104-XX-964-41-780000							
SPECIFY PLATING CODE XX =					11 ◆	13 ◆							
Sleeve (Pin) 					0,25µm Au	0,25µm Au							
Contact (Clip) 					0,25µm Au	0,76µm Au							

DUAL-IN-LINE SOCKETS

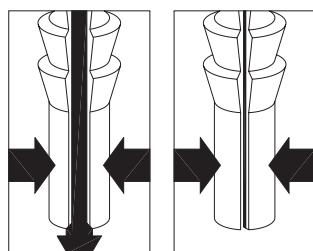
SERIES 146 • SOLDERLESS PRESS-FIT, COMPLIANT TAIL • OPEN FRAME



- Unique compliant tail pins conform to a $1,02 \pm 0,76$ finished plated through hole diameter without stressing inner layers
- Two tails lengths are offered for 1,52 - 2,54 and 2,29 - 3,30 thick panels
- Series 146 uses MM #4612 or MM #4613 pins with a BeCu #30 contact, rated at 3 amps. See page 162 for details
- Insulators are high temperature thermoplastic
- For Electrical, Mechanical and Environmental Data, see page 264 for details



APPLICATION OF COMPLIANT TAIL PINS



Mill-Max's patented* precision-machined pins feature compliant tails that are hollow and slotted to conform to a $1,02 \pm 0,76$ diameter PTH. As the pin is inserted, the slot compresses to fit the PTH, thus avoiding damage (see illustration at left). The pin's tail has fine serrations that form a perfect "gas tight" connection that doesn't require soldering. And since the pin doesn't damage the hole, compliant tail sockets and connectors can be easily replaced.

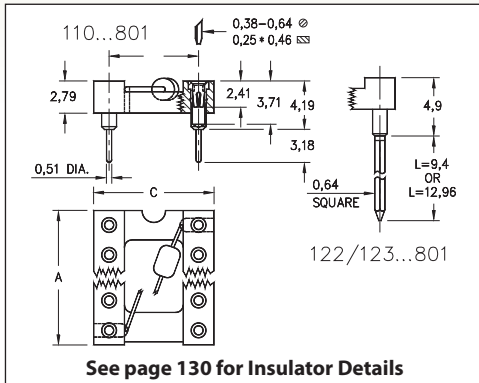
*Patent No. 4,799,904.

Total number of pins				Quantity per tube	ORDERING INFORMATION		
	A	B	C		L = 3,05 (for 1,52 - 2,54 thick panel)	L = 4,45 (for 2,29 - 3,30 thick panel)	
6	7,6	7,62	10,1	67	146-XX-306-41-012000	146-XX-306-41-013000	 XX=Plating Code See Below
8	10,1	7,62	10,1	50	146-XX-308-41-012000	146-XX-308-41-013000	
14	17,7	7,62	10,1	28	146-XX-314-41-012000	146-XX-314-41-013000	
16	20,3	7,62	10,1	25	146-XX-316-41-012000	146-XX-316-41-013000	
18	22,8	7,62	10,1	22	146-XX-318-41-012000	146-XX-318-41-013000	
20	25,3	7,62	10,1	20	146-XX-320-41-012000	146-XX-320-41-013000	
24	30,4	7,62	10,1	16	146-XX-324-41-012000	146-XX-324-41-013000	
22	27,8	10,16	12,7	18	146-XX-422-41-012000	146-XX-422-41-013000	
24	30,4	15,24	17,7	16	146-XX-624-41-012000	146-XX-624-41-013000	
28	35,5	15,24	17,7	14	146-XX-628-41-012000	146-XX-628-41-013000	
32	40,6	15,24	17,7	12	146-XX-632-41-012000	146-XX-632-41-013000	
40	50,8	15,24	17,7	10	146-XX-640-41-012000	146-XX-640-41-013000	
SPECIFY PLATING CODE XX =					91	93	41
Sleeve (Pin)					5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn
Contact (Clip)					0,25µm Au	0,25µm Au	0,25µm Au



DUAL-IN-LINE SOCKETS

SERIES 110, 122, 123 • INTEGRAL DECOUPLING CAPACITOR • OPEN FRAME



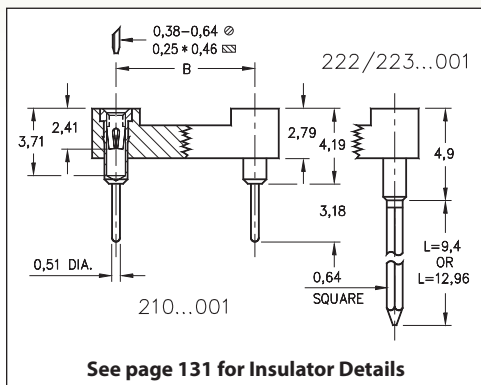
- Low profile DIP sockets w/ integral decoupling capacitor: .1 μ F 20%-50V multi-layer ceramic epoxy encapsulated. Temp. range: -25° C to +85° C
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 110, 122 and 123 use MM #1001, #0088 or #0089 pins. See pages 165 & 198 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



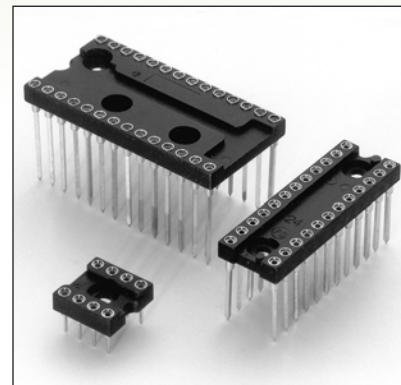
Total number of pins				Quantity per tube	ORDERING INFORMATION		
	A	B	C		Solder Tail	L = 9,4 (2 Level Wrappost)	L = 12,96 (3 Level Wrappost)
14	17,7	7,62	10,1	28	110-XX-314-41-801000	122-XX-314-41-801000	123-XX-314-41-801000
16	20,3	7,62	10,1	25	110-XX-316-41-801000	122-XX-316-41-801000	123-XX-316-41-801000
18	22,8	7,62	10,1	22	110-XX-318-41-801000	122-XX-318-41-801000	123-XX-318-41-801000
20	25,3	7,62	10,1	20	110-XX-320-41-801000	122-XX-320-41-801000	123-XX-320-41-801000
22	27,8	7,62	10,1	18	110-XX-322-41-801000	122-XX-322-41-801000	123-XX-322-41-801000
24	30,4	7,62	10,1	16	110-XX-324-41-801000	122-XX-324-41-801000	123-XX-324-41-801000
28	35,5	7,62	10,1	14	110-XX-328-41-801000	122-XX-328-41-801000	123-XX-328-41-801000
22	27,8	10,16	12,7	18	110-XX-422-41-801000	122-XX-422-41-801000	123-XX-422-41-801000
24	30,4	15,24	17,7	16	110-XX-624-41-801000	122-XX-624-41-801000	123-XX-624-41-801000
28	35,5	15,24	17,7	14	110-XX-628-41-801000	122-XX-628-41-801000	123-XX-628-41-801000
32	40,6	15,24	17,7	12	110-XX-632-41-801000	122-XX-632-41-801000	123-XX-632-41-801000
40	50,8	15,24	17,7	10	110-XX-640-41-801000	122-XX-640-41-801000	123-XX-640-41-801000
					XX=Plating Code See Below	RoHS-2 2011/65/EU	
SPECIFY PLATING CODE XX =					13	93	43
Sleeve (Pin)					0,25 μ m Au	5,08 μ m Sn/Pb	5,08 μ m Sn
Contact (Clip)					0,76 μ m Au	0,76 μ m Au	0,76 μ m Au

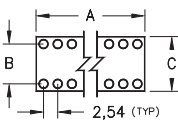
DUAL-IN-LINE SOCKETS

SERIES 210, 222, 223 • SOLDER TAIL AND WRAPOST • CLOSED FRAME



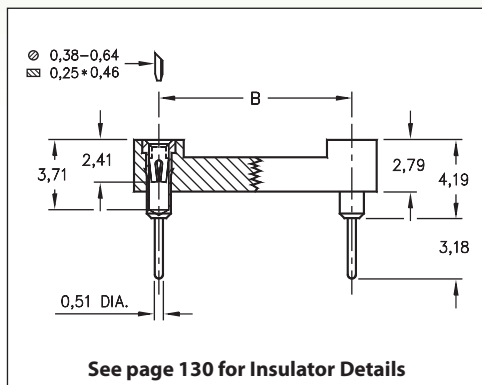
- Closed frame insulator withstands high mechanical impact
- Available with standard solder pins, 2-level or 3-level wraposts
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 210, 222 and 223 use MM #1001, #0088 or #0089 pins. See pages 165 & 198 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



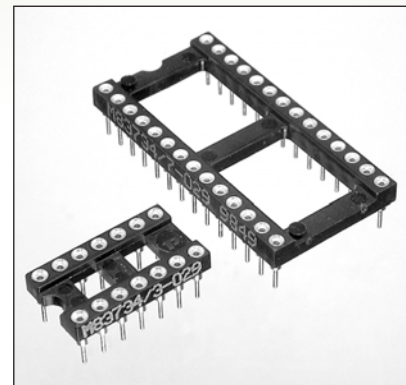
Total number of pins				Quantity per tube	ORDERING INFORMATION								
	A	B	C		Solder Tail			L = 9,4 (2 Level Wrapost)			L = 12,96 (3 Level Wrapost)		
6	7,6	7,62	10,1	67	210-XX-306-41-001000			222-XX-306-41-001000			223-XX-306-41-001000		
8	10,1	7,62	10,1	50	210-XX-308-41-001000			222-XX-308-41-001000			223-XX-308-41-001000		
10	12,6	7,62	10,1	40	210-XX-310-41-001000			222-XX-310-41-001000			223-XX-310-41-001000		
14	17,7	7,62	10,1	28	210-XX-314-41-001000			222-XX-314-41-001000			223-XX-314-41-001000		
16	20,3	7,62	10,1	25	210-XX-316-41-001000			222-XX-316-41-001000			223-XX-316-41-001000		
18	22,8	7,62	10,1	22	210-XX-318-41-001000			222-XX-318-41-001000			223-XX-318-41-001000		
20	25,3	7,62	10,1	20	210-XX-320-41-001000			222-XX-320-41-001000			223-XX-320-41-001000		
22	27,8	7,62	10,1	18	210-XX-322-41-001000			222-XX-322-41-001000			223-XX-322-41-001000		
24	30,4	7,62	10,1	16	210-XX-324-41-001000			222-XX-324-41-001000			223-XX-324-41-001000		
22	27,8	10,16	12,7	18	210-XX-422-41-001000			222-XX-422-41-001000			223-XX-422-41-001000		
24	30,4	10,16	12,7	16	210-XX-424-41-001000			222-XX-424-41-001000			223-XX-424-41-001000		
24	30,4	15,24	17,7	16	210-XX-624-41-001000			222-XX-624-41-001000			223-XX-624-41-001000		
28	35,5	15,24	17,7	14	210-XX-628-41-001000			222-XX-628-41-001000			223-XX-628-41-001000		
32	40,6	15,24	17,7	12	210-XX-632-41-001000			222-XX-632-41-001000			223-XX-632-41-001000		
36	45,7	15,24	17,7	11	210-XX-636-41-001000			222-XX-636-41-001000			223-XX-636-41-001000		
40	50,8	15,24	17,7	10	210-XX-640-41-001000			222-XX-640-41-001000			223-XX-640-41-001000		
64	81,2	22,86	25,3	6	210-XX-964-41-001000			222-XX-964-41-001000			223-XX-964-41-001000		
					XX=Plating Code See Below			RoHS-2 2011/65/EU					
SPECIFY PLATING CODE XX =					11	13	91	93	99	41	43	44	
Sleeve (Pin) 					0,25µm Au	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	5,08µm Sn	
Contact (Clip) 					0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	2,54µm Sn/Pb	0,25µm Au	0,76µm Au	2,54µm Sn	

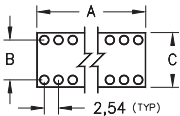
DUAL-IN-LINE SOCKETS

SERIES 110...530 • MIL-DTL-83734 APPROVED, SOLDER TAIL • OPEN FRAME



- Sockets are XY stackable
- Socket pins feature closed end construction eliminating any solder wicking problems
- Packaged in tubes compatible with automatic insertion equipment
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 110 uses MM #1001 pins. See page 165 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details

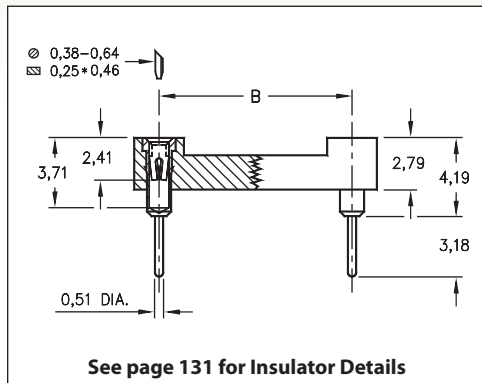


Total number of pins				Quantity per tube	ORDERING INFORMATION			
	A	B	C		Mill-Max Part Number		Military Part Number	
8	10,1	7,62	10,1	50	110-XX-308-41-530000	M83734/2-YYY		
14	17,7	7,62	10,1	28	110-XX-314-41-530000	M83734/3-YYY		
16	20,3	7,62	10,1	25	110-XX-316-41-530000	M83734/4-YYY		
18	22,8	7,62	10,1	22	110-XX-318-41-530000	M83734/5-YYY		
20	25,3	7,62	10,1	20	110-XX-320-41-530000	M83734/13-YYY		
22	27,8	10,16	12,7	18	110-XX-422-41-530000	M83734/6-YYY		
24	30,4	15,24	17,7	16	110-XX-624-41-530000	M83734/8-YYY		
28	35,5	15,24	17,7	14	110-XX-628-41-530000	M83734/7-YYY		
40	50,8	15,24	17,7	10	110-XX-640-41-530000	M83734/10-YYY		
48	60,9	15,24	17,7	8	110-XX-648-41-530000	M83734/14-YYY		
64	81,2	22,86	25,3	6	110-XX-964-41-530000	M83734/15-YYY		
					XX=Plating Code See Below			
SEE PAGE 103 FOR COMPLETE MIL-DTL-83734 QPL								
SPECIFY MILL-MAX PLATING CODE XX =					33	83	88	
FOR MILITARY PLATING CODE YYY =					028	029	030	
Sleeve (Pin) 					0,76µm min. Au	7,62µm Sn/Pb	7,62µm Sn/Pb	
Contact (Clip) 					0,76µm min. Au	0,76µm min. Au	2,54µm Sn/Pb	

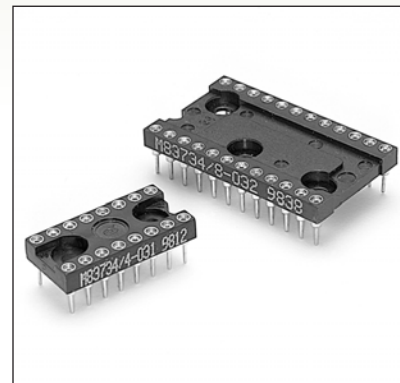


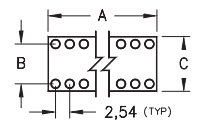
DUAL-IN-LINE SOCKETS

SERIES 210...101 • MIL-DTL-83734 APPROVED, SOLDER TAIL • CLOSED FRAME



- Sockets are XY stackable
- Socket pins feature closed end construction eliminating any solder wicking problems
- Packaged in tubes compatible with automatic insertion equipment
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 210 uses MM #1001 pins. See page 165 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details

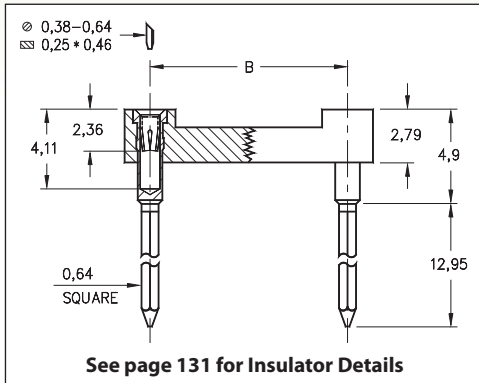


Total number of pins				Quantity per tube	ORDERING INFORMATION			
	A	B	C		Mill-Max Part Number		Military Part Number	
6	7,6	7,62	10,1	67	210-XX-306-41-101000	M83734/1-YYY		
8	10,1	7,62	10,1	50	210-XX-308-41-101000	M83734/2-YYY		
14	17,7	7,62	10,1	28	210-XX-314-41-101000	M83734/3-YYY		
16	20,3	7,62	10,1	25	210-XX-316-41-101000	M83734/4-YYY		
18	22,8	7,62	10,1	22	210-XX-318-41-101000	M83734/5-YYY		
20	25,3	7,62	10,1	20	210-XX-320-41-101000	M83734/13-YYY		
22	27,8	10,16	12,7	18	210-XX-422-41-101000	M83734/6-YYY		
24	30,4	15,24	17,7	16	210-XX-624-41-101000	M83734/8-YYY		
28	35,5	15,24	17,7	14	210-XX-628-41-101000	M83734/7-YYY		
32	40,6	15,24	17,7	10	210-XX-632-41-101000	M83734/17-YYY		
40	50,8	15,24	17,7	8	210-XX-640-41-101000	M83734/10-YYY		
64	81,2	22,86	25,3	6	210-XX-964-41-101000	M83734/15-YYY		
					XX=Plating Code See Below			
SEE PAGE 103 FOR COMPLETE MIL-DTL-83734 QPL								
SPECIFY MILL-MAX PLATING CODE XX =					33	83	88	
FOR MILITARY PLATING CODE YYY =					031	032	033	
(6 PIN ONLY) YYY =					025	026	027	
(32 PIN ONLY) YYY =					013	014	015	
Sleeve (Pin) 					0,76µm min. Au	7,62µm Sn/Pb	7,62µm Sn/Pb	
Contact (Clip) 					0,76µm min. Au	0,76µm min. Au	2,54µm Sn/Pb	

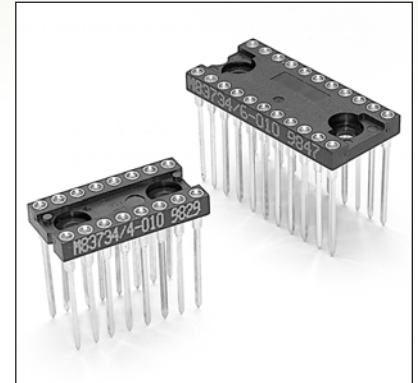


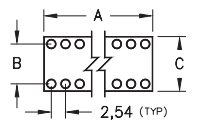
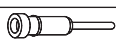
DUAL-IN-LINE SOCKETS

SERIES 223...101 • MIL-DTL-83734 APPROVED, 3 LEVEL WRAPOST • CLOSED FRAME



- Sockets are XY stackable
- Socket pins feature closed end construction eliminating any solder wicking problems
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 223 uses MM #0038-3 or #0088-3 pins. See page 198 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins				Quantity per tube	ORDERING INFORMATION			
	A	B	C		Mill-Max Part Number		Military Part Number	
6	7,6	7,62	10,1	67	223-XX-306-41-101000	M83734/1-YYY		
8	10,1	7,62	10,1	50	223-XX-308-41-101000	M83734/2-YYY		
14	17,7	7,62	10,1	28	223-XX-314-41-101000	M83734/3-YYY		
16	20,3	7,62	10,1	25	223-XX-316-41-101000	M83734/4-YYY		
18	22,8	7,62	10,1	22	223-XX-318-41-101000	M83734/5-YYY		
20	25,3	7,62	10,1	20	223-XX-320-41-101000	M83734/13-YYY		
22	27,8	10,16	12,7	18	223-XX-422-41-101000	M83734/6-YYY		
24	30,4	15,24	17,7	16	223-XX-624-41-101000	M83734/8-YYY		
28	35,5	15,24	17,7	14	223-XX-628-41-101000	M83734/7-YYY		
32	40,6	15,24	17,7	12	223-XX-632-41-101000	M83734/17-YYY		
40	50,8	15,24	17,7	10	223-XX-640-41-101000	M83734/10-YYY		
64	81,2	22,86	25,3	6	223-XX-964-41-101000	M83734/15-YYY		
					XX=Plating Code See Below			
SEE PAGE 103 FOR COMPLETE MIL-DTL-83734 QPL								
SPECIFY MILL-MAX PLATING CODE XX =					33	83	88	
SPECIFY MILL-MAX PLATING CODE XX =					010	011	012	
(32 PIN ONLY) YYY =					007	008	009	
Sleeve (Pin) 					0,76µm min. Au	7,62µm Sn/Pb	7,62µm Sn/Pb	
Contact (Clip) 					0,76µm min. Au	0,76µm min. Au	2,54µm Sn/Pb	



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DUAL-IN-LINE SOCKETS

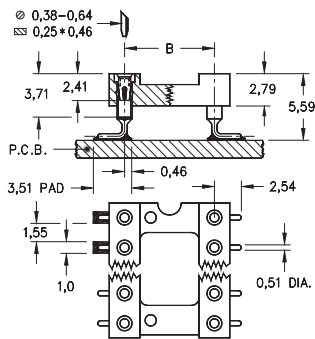
DIP SOCKETS QUALIFIED TO MIL-DTL-83734

MIL SPEC #	MILL-MAX #	MIL SPEC #	MILL-MAX #	MIL SPEC #	MILL-MAX #
M83734/1-010	223-33-306-41-101000	M83734/7-010	223-33-628-41-101000	M83734/15-030	110-88-964-41-530000
M83734/1-011	223-83-306-41-101000	M83734/7-011	223-83-628-41-101000	M83734/15-031	210-33-964-41-101000
M83734/1-012	223-88-306-41-101000	M83734/7-012	223-88-628-41-101000	M83734/15-032	210-83-964-41-101000
M83734/1-025	210-33-306-41-101000	M83734/7-028	110-33-628-41-530000	M83734/15-033	210-88-964-41-101000
M83734/1-026	210-83-306-41-101000	M83734/7-029	110-83-628-41-530000		
M83734/1-027	210-88-306-41-101000	M83734/7-030	110-88-628-41-530000	M83734/17-001	221-33-632-41-101000
		M83734/7-031	210-33-628-41-101000	M83734/17-002	221-83-632-41-101000
M83734/2-010	223-33-308-41-101000	M83734/7-032	210-83-628-41-101000	M83734/17-003	221-88-632-41-101000
M83734/2-011	223-83-308-41-101000	M83734/7-033	210-88-628-41-101000	M83734/17-004	222-33-632-41-101000
M83734/2-012	223-88-308-41-101000			M83734/17-005	222-83-632-41-101000
M83734/2-028	110-33-308-41-530000	M83734/8-010	223-33-624-41-101000	M83734/17-006	222-88-632-41-101000
M83734/2-029	110-83-308-41-530000	M83734/8-011	223-83-624-41-101000	M83734/17-007	223-33-632-41-101000
M83734/2-030	110-88-308-41-530000	M83734/8-012	223-88-624-41-101000	M83734/17-008	223-83-632-41-101000
M83734/2-031	210-33-308-41-101000	M83734/8-028	110-33-624-41-530000	M83734/17-009	223-88-632-41-101000
M83734/2-032	210-83-308-41-101000	M83734/8-029	110-83-624-41-530000	M83734/17-013	210-33-632-41-101000
M83734/2-033	210-88-308-41-101000	M83734/8-030	110-88-624-41-530000	M83734/17-014	210-83-632-41-101000
		M83734/8-031	210-33-624-41-101000	M83734/17-015	210-88-632-41-101000
M83734/3-010	223-33-314-41-101000	M83734/8-032	210-83-624-41-101000		
M83734/3-011	223-83-314-41-101000	M83734/8-033	210-88-624-41-101000		
M83734/3-012	223-88-314-41-101000				
M83734/3-028	110-33-314-41-530000	M83734/9-010	223-33-636-41-101000		
M83734/3-029	110-83-314-41-530000	M83734/9-011	223-83-636-41-101000		
M83734/3-030	110-88-314-41-530000	M83734/9-012	223-88-636-41-101000		
M83734/3-031	210-33-314-41-101000	M83734/9-031	210-33-636-41-101000		
M83734/3-032	210-83-314-41-101000	M83734/9-032	210-83-636-41-101000		
M83734/3-033	210-88-314-41-101000	M83734/9-033	210-88-636-41-101000		
M83734/4-010	223-33-316-41-101000	M83734/10-010	223-33-640-41-101000		
M83734/4-011	223-83-316-41-101000	M83734/10-011	223-83-640-41-101000		
M83734/4-012	223-88-316-41-101000	M83734/10-012	223-88-640-41-101000		
M83734/4-028	110-33-316-41-530000	M83734/10-028	110-33-640-41-530000		
M83734/4-029	110-83-316-41-530000	M83734/10-029	110-83-640-41-530000		
M83734/4-030	110-88-316-41-530000	M83734/10-030	110-88-640-41-530000		
M83734/4-031	210-33-316-41-101000	M83734/10-031	210-33-640-41-101000		
M83734/4-032	210-83-316-41-101000	M83734/10-032	210-83-640-41-101000		
M83734/4-033	210-88-316-41-101000	M83734/10-033	210-88-640-41-101000		
M83734/5-010	223-33-318-41-101000	M83734/13-010	223-33-320-41-101000		
M83734/5-011	223-83-318-41-101000	M83734/13-011	223-83-320-41-101000		
M83734/5-012	223-88-318-41-101000	M83734/13-012	223-88-320-41-101000		
M83734/5-028	110-33-318-41-530000	M83734/13-028	110-33-320-41-530000		
M83734/5-029	110-83-318-41-530000	M83734/13-029	110-83-320-41-530000		
M83734/5-030	110-88-318-41-530000	M83734/13-030	110-88-320-41-530000		
M83734/5-031	210-33-318-41-101000	M83734/13-031	210-33-320-41-101000		
M83734/5-032	210-83-318-41-101000	M83734/13-032	210-83-320-41-101000		
M83734/5-033	210-88-318-41-101000	M83734/13-033	210-88-320-41-101000		
M83734/6-010	223-33-422-41-101000	M83734/14-028	110-33-648-41-530000		
M83734/6-011	223-83-422-41-101000	M83734/14-029	110-83-648-41-530000		
M83734/6-012	223-88-422-41-101000	M83734/14-030	110-88-648-41-530000		
M83734/6-028	110-33-422-41-530000				
M83734/6-029	110-83-422-41-530000	M83734/15-010	223-33-964-41-101000		
M83734/6-030	110-88-422-41-530000	M83734/15-011	223-83-964-41-101000		
M83734/6-031	210-33-422-41-101000	M83734/15-012	223-88-964-41-101000		
M83734/6-032	210-83-422-41-101000	M83734/15-028	110-33-964-41-530000		
M83734/6-033	210-88-422-41-101000	M83734/15-029	110-83-964-41-530000		



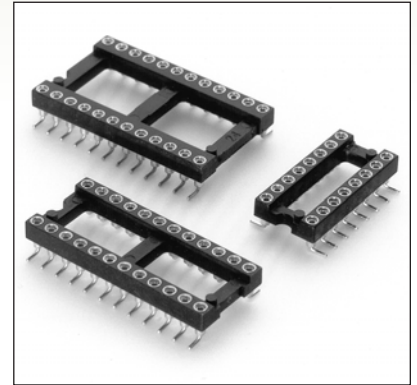
DUAL-IN-LINE SOCKETS

SERIES 110...105 • SURFACE MOUNT, GULL WING • OPEN FRAME

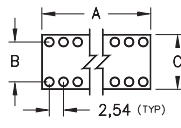
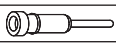


See page 130 for Insulator Details

- Socket pins feature closed end construction eliminating any solder wicking problems
- Gull wing terminals provide maximum strength and permit easy visual inspection of solder joints. Series 110 uses Mill-Max #1005 pins. See page 166 for details
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



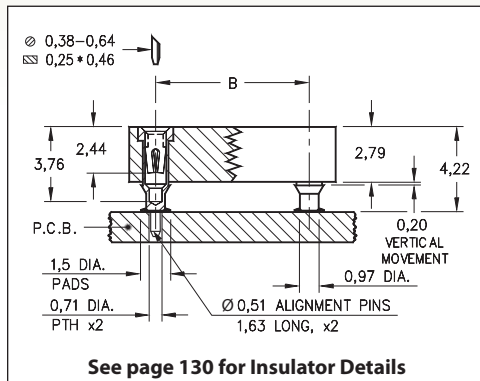
ORDERING INFORMATION

Total number of pins				Quantity per tube								
	A	B	C									
10	12,6	5,08	7,6	40	110-XX-210-41-105000							
4	5,0	7,62	10,1	102	110-XX-304-41-105000							
6	7,6	7,62	10,1	67	110-XX-306-41-105000							
8	10,1	7,62	10,1	50	110-XX-308-41-105000							
10	12,6	7,62	10,1	40	110-XX-310-41-105000							
14	17,7	7,62	10,1	28	110-XX-314-41-105000							
16	20,3	7,62	10,1	25	110-XX-316-41-105000							
18	22,8	7,62	10,1	22	110-XX-318-41-105000							
20	25,3	7,62	10,1	20	110-XX-320-41-105000							
22	27,8	7,62	10,1	18	110-XX-322-41-105000							
24	30,4	7,62	10,1	16	110-XX-324-41-105000							
28	35,5	7,62	10,1	14	110-XX-328-41-105000							
20	25,4	10,16	12,7	20	110-XX-420-41-105000							
22	27,8	10,16	12,7	18	110-XX-422-41-105000							
24	30,4	10,16	12,7	16	110-XX-424-41-105000							
28	35,5	10,16	12,7	14	110-XX-428-41-105000							
32	40,6	10,16	12,7	12	110-XX-432-41-105000							
24	30,4	15,24	17,7	32	110-XX-624-41-105000							
28	35,5	15,24	17,7	28	110-XX-628-41-105000							
32	40,6	15,24	17,7	24	110-XX-632-41-105000							
36	45,7	15,24	17,7	22	110-XX-636-41-105000							
40	50,8	15,24	17,7	20	110-XX-640-41-105000							
42	53,3	15,24	17,7	18	110-XX-642-41-105000							
48	60,9	15,24	17,7	16	110-XX-648-41-105000							
50	63,5	15,24	17,7	16	110-XX-650-41-105000							
52	66,0	15,24	17,7	14	110-XX-652-41-105000							
50	63,5	22,86	25,3	16	110-XX-950-41-105000							
52	66,0	22,86	25,3	14	110-XX-952-41-105000							
64	81,2	22,86	25,3	12	110-XX-964-41-105000							
See page 264 for coplanarity information					XX=Plating Code See Below						RoHS-2 2011/65/EU	
					SPECIFY PLATING CODE XX=		91	93			43	
					Sleeve (Pin)		5,08µm Sn/Pb		5,08µm Sn/Pb		5,08µm Sn	
					Contact (Clip)		0,25µm Au		0,76µm Au		0,76µm Au	

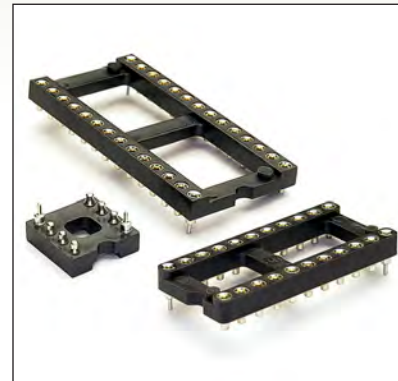


DUAL-IN-LINE SOCKETS

SERIES 113 • SURFACE MOUNT, STUB TAIL W/ ALIGNMENT PINS • OPEN FRAME



- Unique floating contacts compensate for the effects of unevenly dispensed solder paste
- Two corner alignment pins (power & ground positions) permit manual placement
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 113 uses MM #1334 and #1434 pins. See pages 162 and 171
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins	ALIGNMENT PINS			Quantity per tube	ORDERING INFORMATION			
	A	B	C					
10	12,6	5,08	7,6	41	113-XX-210-41-117000			
4	5,0	7,62	10,1	100	113-XX-304-41-117000			
6	7,6	7,62	10,1	67	113-XX-306-41-117000			
8	10,1	7,62	10,1	50	113-XX-308-41-117000			
10	12,6	7,62	10,1	40	113-XX-310-41-117000			
14	17,7	7,62	10,1	28	113-XX-314-41-117000			
16	20,3	7,62	10,1	25	113-XX-316-41-117000			
18	22,8	7,62	10,1	22	113-XX-318-41-117000			
20	25,3	7,62	10,1	20	113-XX-320-41-117000			
22	27,8	7,62	10,1	18	113-XX-322-41-117000			
24	30,4	7,62	10,1	16	113-XX-324-41-117000			
28	35,5	7,62	10,1	14	113-XX-328-41-117000			
20	25,4	10,16	12,7	20	113-XX-420-41-117000			
22	27,8	10,16	12,7	18	113-XX-422-41-117000			
24	30,4	10,16	12,7	16	113-XX-424-41-117000			
28	35,5	10,16	12,7	14	113-XX-428-41-117000			
32	40,6	10,16	12,7	12	113-XX-432-41-117000			
24	30,4	15,24	17,7	16	113-XX-624-41-117000			
28	35,5	15,24	17,7	14	113-XX-628-41-117000			
32	40,6	15,24	17,7	12	113-XX-632-41-117000			
36	45,7	15,24	17,7	11	113-XX-636-41-117000			
40	50,8	15,24	17,7	10	113-XX-640-41-117000			
42	53,3	15,24	17,7	9	113-XX-642-41-117000			
48	60,9	15,24	17,7	8	113-XX-648-41-117000			
50	63,5	15,24	17,7	8	113-XX-650-41-117000			
52	66,0	15,24	17,7	7	113-XX-652-41-117000			
50	63,5	22,86	25,3	8	113-XX-950-41-117000			
52	66,0	22,86	25,3	7	113-XX-952-41-117000			
64	81,2	22,86	25,3	6	113-XX-964-41-117000			
SPECIFY PLATING CODE XX =					93		43	
Sleeve (Pin)					5,08µm Sn/Pb		5,08µm Sn	
Contact (Clip)					0,25µm Au		0,25µm Au	

XX=Plating Code
See Below

RoHS-2
2011/65/EU



PAGE 108 | IC SOCKETS / TO SOCKETS

$\varnothing$ 0,38–0,64
 $\square$ 0,25 * 0,46

B
 2,44
 3,76
 2,79
 4,22
 P.C.B.
 1,5 DIA. PAD
 0,20 VERTICAL MOVEMENT
 0,97 DIA.

See page 131 for Insulator Details

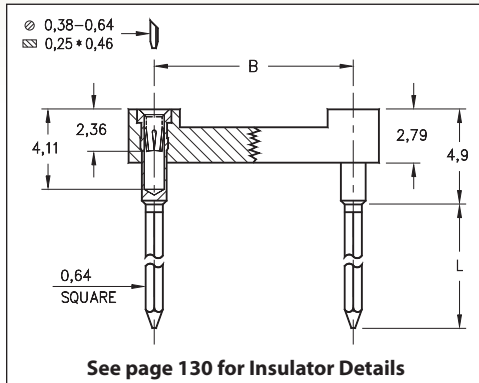
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DUAL-IN-LINE SOCKETS

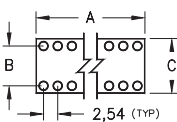
SERIES 121, 122, 123, 124 • 1 - 4 LEVEL WRAPOST • OPEN FRAME



- Solderless wrappost terminals are firmly locked in the insulator body to withstand torque of a wrapping tool
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 121, 122, 123 and 124 use MM #0040, #0086, #0088 and #0089 pins. See page 198 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



RoHS-2
2011/65/EU

Total number of pins				Quantity per tube	ORDERING INFORMATION					
	A	B	C		L = 6,6 (1 Level Wrapost)	L = 9,4 (2 Level Wrapost)	L = 12,95 (3 Level Wrapost)	L = 16,0 (4 Level Wrapost)		
10	12,6	5,08	7,6	40	121-XX-210-41-001000	122-XX-210-41-001000	123-XX-210-41-001000	124-XX-210-41-002000 43 or 93 Plating Code ONLY		
4	5,0	7,62	10,1	102	121-XX-304-41-001000	122-XX-304-41-001000	123-XX-304-41-001000	124-XX-304-41-002000		
6	7,6	7,62	10,1	67	121-XX-306-41-001000	122-XX-306-41-001000	123-XX-306-41-001000	124-XX-306-41-002000		
8	10,1	7,62	10,1	50	121-XX-308-41-001000	122-XX-308-41-001000	123-XX-308-41-001000	124-XX-308-41-002000		
10	12,6	7,62	10,1	40	121-XX-310-41-001000	122-XX-310-41-001000	123-XX-310-41-001000	124-XX-310-41-002000		
14	17,7	7,62	10,1	28	121-XX-314-41-001000	122-XX-314-41-001000	123-XX-314-41-001000	124-XX-314-41-002000		
16	20,3	7,62	10,1	25	121-XX-316-41-001000	122-XX-316-41-001000	123-XX-316-41-001000	124-XX-316-41-002000		
18	22,8	7,62	10,1	22	121-XX-318-41-001000	122-XX-318-41-001000	123-XX-318-41-001000	124-XX-318-41-002000		
20	25,3	7,62	10,1	20	121-XX-320-41-001000	122-XX-320-41-001000	123-XX-320-41-001000	124-XX-320-41-002000		
22	27,8	7,62	10,1	18	121-XX-322-41-001000	122-XX-322-41-001000	123-XX-322-41-001000	124-XX-322-41-002000		
24	30,4	7,62	10,1	16	121-XX-324-41-001000	122-XX-324-41-001000	123-XX-324-41-001000	124-XX-324-41-002000		
28	35,5	7,62	10,1	14	121-XX-328-41-001000	122-XX-328-41-001000	123-XX-328-41-001000	124-XX-328-41-002000 43 or 93 Plating Code ONLY		
20	25,4	10,16	12,7	20	121-XX-420-41-001000	122-XX-420-41-001000	123-XX-420-41-001000	124-XX-420-41-002000		
22	27,8	10,16	12,7	18	121-XX-422-41-001000	122-XX-422-41-001000	123-XX-422-41-001000	124-XX-422-41-002000		
24	30,4	10,16	12,7	16	121-XX-424-41-001000	122-XX-424-41-001000	123-XX-424-41-001000	124-XX-424-41-002000		
28	35,5	10,16	12,7	14	121-XX-428-41-001000	122-XX-428-41-001000	123-XX-428-41-001000	124-XX-428-41-002000		
32	40,6	10,16	12,7	12	121-XX-432-41-001000	122-XX-432-41-001000	123-XX-432-41-001000	124-XX-432-41-002000 43 or 93 Plating Code ONLY		
24	30,4	15,24	17,7	16	121-XX-624-41-001000	122-XX-624-41-001000	123-XX-624-41-001000	124-XX-624-41-002000		
28	35,5	15,24	17,7	14	121-XX-628-41-001000	122-XX-628-41-001000	123-XX-628-41-001000	124-XX-628-41-002000		
32	40,6	15,24	17,7	12	121-XX-632-41-001000	122-XX-632-41-001000	123-XX-632-41-001000	124-XX-632-41-002000		
36	45,7	15,24	17,7	11	121-XX-636-41-001000	122-XX-636-41-001000	123-XX-636-41-001000	124-XX-636-41-002000		
40	50,8	15,24	17,7	10	121-XX-640-41-001000	122-XX-640-41-001000	123-XX-640-41-001000	124-XX-640-41-002000		
42	53,3	15,24	17,7	9	121-XX-642-41-001000	122-XX-642-41-001000	123-XX-642-41-001000	124-XX-642-41-002000		
48	60,9	15,24	17,7	8	121-XX-648-41-001000	122-XX-648-41-001000	123-XX-648-41-001000	124-XX-648-41-002000		
50	63,5	15,24	17,7	8	121-XX-650-41-001000	122-XX-650-41-001000	123-XX-650-41-001000	124-XX-650-41-002000		
52	66,0	15,24	17,7	7	121-XX-652-41-001000	122-XX-652-41-001000	123-XX-652-41-001000	124-XX-652-41-002000 43 or 93 Plating Code ONLY		
50	63,5	22,86	25,3	8	121-XX-950-41-001000	122-XX-950-41-001000	123-XX-950-41-001000	124-XX-950-41-002000		
52	66,0	22,86	25,3	7	121-XX-952-41-001000	122-XX-952-41-001000	123-XX-952-41-001000	124-XX-952-41-002000		
64	81,2	22,86	25,3	6	121-XX-964-41-001000	122-XX-964-41-001000	123-XX-964-41-001000	124-XX-964-41-002000		
SPECIFY PLATING CODE XX =					13 ◆	91	93	41 ◆	43 ◆	XX=Plating Code See to Left
Sleeve (Pin) 					0,25µm Au	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	
Contact (Clip) 					0,76µm Au	0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	

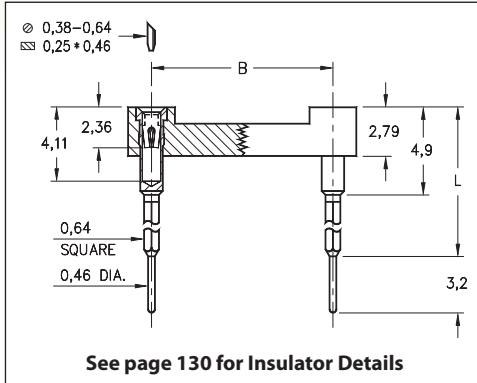
XX=Plating Code
See to Left



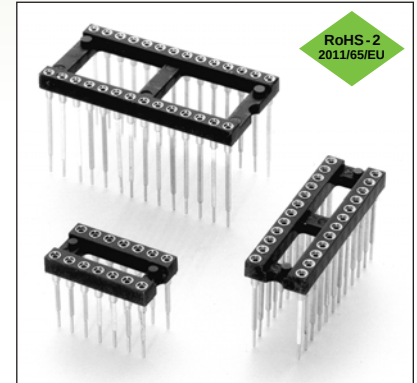
Mill-Max Mfg. Corp. • 190 Pine Hollow Road, P.O. Box 300, Oyster Bay, NY 11771 • 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com

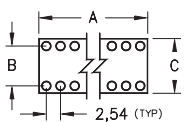
DUAL-IN-LINE SOCKETS

SERIES 126 • PLUGGABLE WRAPPOST • OPEN FRAME



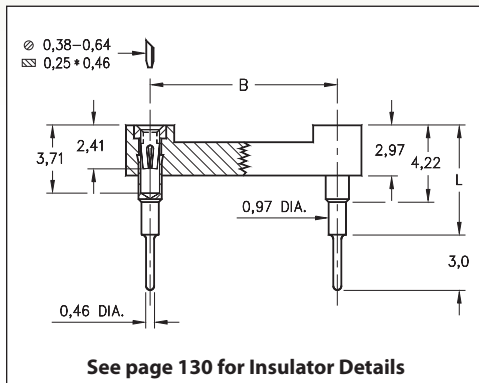
- Combines one through three level wrappost with pluggable solder tails
- Suitable for use as an interconnect socket with intermediate wire wrapped connections
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 126 uses MM #2601, #2602 and #2603 pins. See page 199 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



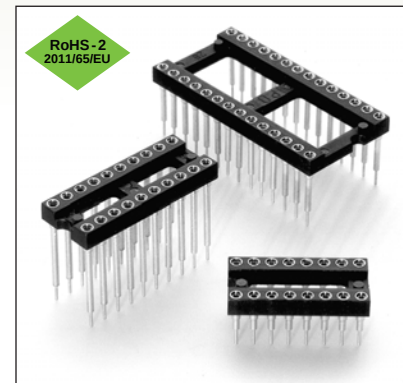
Total number of pins				Quantity per tube	ORDERING INFORMATION				
	A	B	C		L = 10,8 (1 Level Wrapost = 5,89)	L = 13,79 (2 Level Wrapost = 8,89)	L = 16,79 (3 Level Wrapost = 11,9)		
10	12,6	5,08	7,6	40	126-XX-210-41-001000	126-XX-210-41-002000	126-XX-210-41-003000		
4	5,0	7,62	10,1	102	126-XX-304-41-001000	126-XX-304-41-002000	126-XX-304-41-003000		
6	7,6	7,62	10,1	67	126-XX-306-41-001000	126-XX-306-41-002000	126-XX-306-41-003000		
8	10,1	7,62	10,1	50	126-XX-308-41-001000	126-XX-308-41-002000	126-XX-308-41-003000		
10	12,6	7,62	10,1	40	126-XX-310-41-001000	126-XX-310-41-002000	126-XX-310-41-003000		
14	17,7	7,62	10,1	28	126-XX-314-41-001000	126-XX-314-41-002000	126-XX-314-41-003000		
16	20,3	7,62	10,1	25	126-XX-316-41-001000	126-XX-316-41-002000	126-XX-316-41-003000		
18	22,8	7,62	10,1	22	126-XX-318-41-001000	126-XX-318-41-002000	126-XX-318-41-003000		
20	25,3	7,62	10,1	20	126-XX-320-41-001000	126-XX-320-41-002000	126-XX-320-41-003000		
22	27,8	7,62	10,1	18	126-XX-322-41-001000	126-XX-322-41-002000	126-XX-322-41-003000		
24	30,4	7,62	10,1	16	126-XX-324-41-001000	126-XX-324-41-002000	126-XX-324-41-003000		
28	35,5	7,62	10,1	14	126-XX-328-41-001000	126-XX-328-41-002000	126-XX-328-41-003000		
20	25,4	10,16	12,7	20	126-XX-420-41-001000	126-XX-420-41-002000	126-XX-420-41-003000		
22	27,8	10,16	12,7	18	126-XX-422-41-001000	126-XX-422-41-002000	126-XX-422-41-003000		
24	30,4	10,16	12,7	16	126-XX-424-41-001000	126-XX-424-41-002000	126-XX-424-41-003000		
28	35,5	10,16	12,7	14	126-XX-428-41-001000	126-XX-428-41-002000	126-XX-428-41-003000		
32	40,6	10,16	12,7	12	126-XX-432-41-001000	126-XX-432-41-002000	126-XX-432-41-003000		
24	30,4	15,24	17,7	16	126-XX-624-41-001000	126-XX-624-41-002000	126-XX-624-41-003000		
28	35,5	15,24	17,7	14	126-XX-628-41-001000	126-XX-628-41-002000	126-XX-628-41-003000		
32	40,6	15,24	17,7	12	126-XX-632-41-001000	126-XX-632-41-002000	126-XX-632-41-003000		
36	45,7	15,24	17,7	11	126-XX-636-41-001000	126-XX-636-41-002000	126-XX-636-41-003000		
40	50,8	15,24	17,7	10	126-XX-640-41-001000	126-XX-640-41-002000	126-XX-640-41-003000		
42	53,3	15,24	17,7	9	126-XX-642-41-001000	126-XX-642-41-002000	126-XX-642-41-003000		
48	60,9	15,24	17,7	8	126-XX-648-41-001000	126-XX-648-41-002000	126-XX-648-41-003000		
50	63,5	15,24	17,7	8	126-XX-650-41-001000	126-XX-650-41-002000	126-XX-650-41-003000		
52	66,0	15,24	17,7	7	126-XX-652-41-001000	126-XX-652-41-002000	126-XX-652-41-003000		
50	63,5	22,86	25,3	8	126-XX-950-41-001000	126-XX-950-41-002000	126-XX-950-41-003000		
52	66,0	22,86	25,3	7	126-XX-952-41-001000	126-XX-952-41-002000	126-XX-952-41-003000		
64	81,2	22,86	25,3	6	126-XX-964-41-001000	126-XX-964-41-002000	126-XX-964-41-003000		
SPECIFY PLATING CODE XX =					91	93	41 ◆	43 ◆	XX=Plating Code See to Left
Sleeve (Pin) 					5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	
Contact (Clip) 					0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	

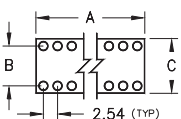
DUAL-IN-LINE SOCKETS

SERIES 116 • ELEVATED • OPEN FRAME



- Ideal for raised component requirements and stacking of PCBs
- Sockets are XY stackable
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 116 uses MM #0153-X pins. See page 167 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details

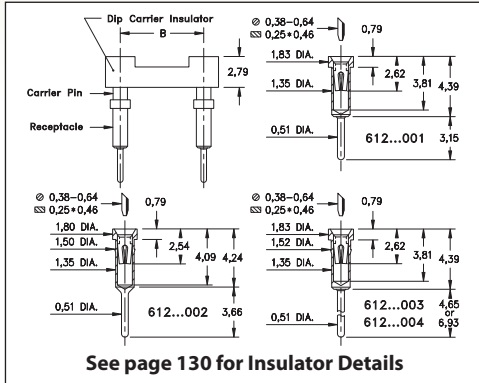


Total number of pins				Quantity per tube	ORDERING INFORMATION					
	A	B	C		L = 6,0 (#0153-1 pin)	L = 8,0 (#0153-2 pin)	L = 10,21 (#0153-3 pin)	L = 11,99 (#0153-4 pin)	L = 15,09 (#0153-5 pin)	
10	12,6	5,08	7,6	40	116-XX-210-41-006000	116-XX-210-41-003000	116-XX-210-41-007000	116-XX-210-41-008000	116-XX-210-41-001000	
4	5,0	7,62	10,1	102	116-XX-304-41-006000	116-XX-304-41-003000	116-XX-304-41-007000	116-XX-304-41-008000	116-XX-304-41-001000	
6	7,6	7,62	10,1	67	116-XX-306-41-006000	116-XX-306-41-003000	116-XX-306-41-007000	116-XX-306-41-008000	116-XX-306-41-001000	
8	10,1	7,62	10,1	50	116-XX-308-41-006000	116-XX-308-41-003000	116-XX-308-41-007000	116-XX-308-41-008000	116-XX-308-41-001000	
10	12,6	7,62	10,1	40	116-XX-310-41-006000	116-XX-310-41-003000	116-XX-310-41-007000	116-XX-310-41-008000	116-XX-310-41-001000	
14	17,7	7,62	10,1	28	116-XX-314-41-006000	116-XX-314-41-003000	116-XX-314-41-007000	116-XX-314-41-008000	116-XX-314-41-001000	
16	20,3	7,62	10,1	25	116-XX-316-41-006000	116-XX-316-41-003000	116-XX-316-41-007000	116-XX-316-41-008000	116-XX-316-41-001000	
18	22,8	7,62	10,1	22	116-XX-318-41-006000	116-XX-318-41-003000	116-XX-318-41-007000	116-XX-318-41-008000	116-XX-318-41-001000	
20	25,3	7,62	10,1	20	116-XX-320-41-006000	116-XX-320-41-003000	116-XX-320-41-007000	116-XX-320-41-008000	116-XX-320-41-001000	
22	27,8	7,62	10,1	18	116-XX-322-41-006000	116-XX-322-41-003000	116-XX-322-41-007000	116-XX-322-41-008000	116-XX-322-41-001000	
24	30,4	7,62	10,1	16	116-XX-324-41-006000	116-XX-324-41-003000	116-XX-324-41-007000	116-XX-324-41-008000	116-XX-324-41-001000	
28	35,5	7,62	10,1	14	116-XX-328-41-006000	116-XX-328-41-003000	116-XX-328-41-007000	116-XX-328-41-008000	116-XX-328-41-001000	
20	25,4	10,16	12,7	20	116-XX-420-41-006000	116-XX-420-41-003000	116-XX-420-41-007000	116-XX-420-41-008000	116-XX-420-41-001000	
22	27,8	10,16	12,7	18	116-XX-422-41-006000	116-XX-422-41-003000	116-XX-422-41-007000	116-XX-422-41-008000	116-XX-422-41-001000	
24	30,4	10,16	12,7	16	116-XX-424-41-006000	116-XX-424-41-003000	116-XX-424-41-007000	116-XX-424-41-008000	116-XX-424-41-001000	
28	35,5	10,16	12,7	14	116-XX-428-41-006000	116-XX-428-41-003000	116-XX-428-41-007000	116-XX-428-41-008000	116-XX-428-41-001000	
32	40,6	10,16	12,7	12	116-XX-432-41-006000	116-XX-432-41-003000	116-XX-432-41-007000	116-XX-432-41-008000	116-XX-432-41-001000	
24	30,4	15,24	17,7	16	116-XX-624-41-006000	116-XX-624-41-003000	116-XX-624-41-007000	116-XX-624-41-008000	116-XX-624-41-001000	
28	35,5	15,24	17,7	14	116-XX-628-41-006000	116-XX-628-41-003000	116-XX-628-41-007000	116-XX-628-41-008000	116-XX-628-41-001000	
32	40,6	15,24	17,7	12	116-XX-632-41-006000	116-XX-632-41-003000	116-XX-632-41-007000	116-XX-632-41-008000	116-XX-632-41-001000	
36	45,7	15,24	17,7	11	116-XX-636-41-006000	116-XX-636-41-003000	116-XX-636-41-007000	116-XX-636-41-008000	116-XX-636-41-001000	
40	50,8	15,24	17,7	10	116-XX-640-41-006000	116-XX-640-41-003000	116-XX-640-41-007000	116-XX-640-41-008000	116-XX-640-41-001000	
42	53,3	15,24	17,7	9	116-XX-642-41-006000	116-XX-642-41-003000	116-XX-642-41-007000	116-XX-642-41-008000	116-XX-642-41-001000	
48	60,9	15,24	17,7	8	116-XX-648-41-006000	116-XX-648-41-003000	116-XX-648-41-007000	116-XX-648-41-008000	116-XX-648-41-001000	
50	63,5	15,24	17,7	8	116-XX-650-41-006000	116-XX-650-41-003000	116-XX-650-41-007000	116-XX-650-41-008000	116-XX-650-41-001000	
52	66,0	15,24	17,7	7	116-XX-652-41-006000	116-XX-652-41-003000	116-XX-652-41-007000	116-XX-652-41-008000	116-XX-652-41-001000	
50	63,5	22,86	25,3	8	116-XX-950-41-006000	116-XX-950-41-003000	116-XX-950-41-007000	116-XX-950-41-008000	116-XX-950-41-001000	
52	66,0	22,86	25,3	7	116-XX-952-41-006000	116-XX-952-41-003000	116-XX-952-41-007000	116-XX-952-41-008000	116-XX-952-41-001000	
64	81,2	22,86	25,3	6	116-XX-964-41-006000	116-XX-964-41-003000	116-XX-964-41-007000	116-XX-964-41-008000	116-XX-964-41-001000	
SPECIFY PLATING CODE XX=						91	93	41 ◆	43 ◆	XX=Plating Code See to Left
Sleeve (Pin) 						5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	
Contact (Clip) 						0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	

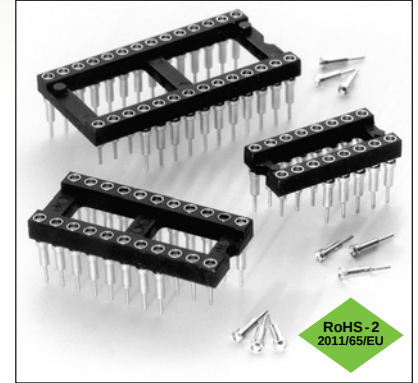


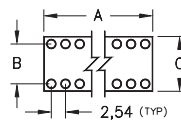
DUAL-IN-LINE SOCKETS

SERIES 612 • CARRIER TYPE, SOLDER TAIL • OPEN FRAME



- Convenient way to load loose receptacles on a PC board
- Removable plastic carriers can be returned for reloading
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 612 uses MM #0255, #8855, #0135 or #0132 pins. See pages 165 and 171 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins				Quantity per tube	ORDERING INFORMATION				
	A	B	C		Tail Length = 3,15 (0,56 Min. Mounting Hole)	Tail Length = 3,66 (0,56 Min. Mounting Hole)	Tail Length = 4,65 (0,56 Min. Mounting Hole)	Tail Length = 6,93 (0,56 Min. Mounting Hole)	
10	12,6	5,08	7,6	40	612-XX-210-41-001000	612-XX-210-41-002000	612-XX-210-41-003000	612-XX-210-41-004000	
4	5,0	7,62	10,1	102	612-XX-304-41-001000	612-XX-304-41-002000	612-XX-304-41-003000	612-XX-304-41-004000	
6	7,6	7,62	10,1	68	612-XX-306-41-001000	612-XX-306-41-002000	612-XX-306-41-003000	612-XX-306-41-004000	
8	10,1	7,62	10,1	50	612-XX-308-41-001000	612-XX-308-41-002000	612-XX-308-41-003000	612-XX-308-41-004000	
10	12,6	7,62	10,1	40	612-XX-310-41-001000	612-XX-310-41-002000	612-XX-310-41-003000	612-XX-310-41-004000	
14	17,7	7,62	10,1	28	612-XX-314-41-001000	612-XX-314-41-002000	612-XX-314-41-003000	612-XX-314-41-004000	
16	20,3	7,62	10,1	25	612-XX-316-41-001000	612-XX-316-41-002000	612-XX-316-41-003000	612-XX-316-41-004000	
18	22,8	7,62	10,1	22	612-XX-318-41-001000	612-XX-318-41-002000	612-XX-318-41-003000	612-XX-318-41-004000	
20	25,3	7,62	10,1	20	612-XX-320-41-001000	612-XX-320-41-002000	612-XX-320-41-003000	612-XX-320-41-004000	
22	27,8	7,62	10,1	18	612-XX-322-41-001000	612-XX-322-41-002000	612-XX-322-41-003000	612-XX-322-41-004000	
24	30,4	7,62	10,1	16	612-XX-324-41-001000	612-XX-324-41-002000	612-XX-324-41-003000	612-XX-324-41-004000	
28	35,5	7,62	10,1	14	612-XX-328-41-001000	612-XX-328-41-002000	612-XX-328-41-003000	612-XX-328-41-004000	
20	25,4	10,16	12,7	20	612-XX-420-41-001000	612-XX-420-41-002000	612-XX-420-41-003000	612-XX-420-41-004000	
22	27,8	10,16	12,7	18	612-XX-422-41-001000	612-XX-422-41-002000	612-XX-422-41-003000	612-XX-422-41-004000	
24	30,4	10,16	12,7	16	612-XX-424-41-001000	612-XX-424-41-002000	612-XX-424-41-003000	612-XX-424-41-004000	
28	35,5	10,16	12,7	14	612-XX-428-41-001000	612-XX-428-41-002000	612-XX-428-41-003000	612-XX-428-41-004000	
32	40,6	10,16	12,7	12	612-XX-432-41-001000	612-XX-432-41-002000	612-XX-432-41-003000	612-XX-432-41-004000	
24	30,4	15,24	17,7	16	612-XX-624-41-001000	612-XX-624-41-002000	612-XX-624-41-003000	612-XX-624-41-004000	
28	35,5	15,24	17,7	14	612-XX-628-41-001000	612-XX-628-41-002000	612-XX-628-41-003000	612-XX-628-41-004000	
32	40,6	15,24	17,7	12	612-XX-632-41-001000	612-XX-632-41-002000	612-XX-632-41-003000	612-XX-632-41-004000	
36	45,7	15,24	17,7	11	612-XX-636-41-001000	612-XX-636-41-002000	612-XX-636-41-003000	612-XX-636-41-004000	
40	50,8	15,24	17,7	10	612-XX-640-41-001000	612-XX-640-41-002000	612-XX-640-41-003000	612-XX-640-41-004000	
42	53,3	15,24	17,7	9	612-XX-642-41-001000	612-XX-642-41-002000	612-XX-642-41-003000	612-XX-642-41-004000	
48	60,9	15,24	17,7	8	612-XX-648-41-001000	612-XX-648-41-002000	612-XX-648-41-003000	612-XX-648-41-004000	
50	63,5	15,24	17,7	8	612-XX-650-41-001000	612-XX-650-41-002000	612-XX-650-41-003000	612-XX-650-41-004000	
52	66,0	15,24	17,7	7	612-XX-652-41-001000	612-XX-652-41-002000	612-XX-652-41-003000	612-XX-652-41-004000	
50	63,5	22,86	25,3	8	612-XX-950-41-001000	612-XX-950-41-002000	612-XX-950-41-003000	612-XX-950-41-004000	
52	66,0	22,86	25,3	7	612-XX-952-41-001000	612-XX-952-41-002000	612-XX-952-41-003000	612-XX-952-41-004000	
64	81,2	22,86	25,3	6	612-XX-964-41-001000	612-XX-964-41-002000	612-XX-964-41-003000	612-XX-964-41-004000	
SPECIFY PLATING CODE XX =					13 ◆	91	93	41 ◆	43 ◆
Sleeve (Pin) 					0,25µm Au	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn
Contact (Clip) 					0,76µm Au	0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au

XX=Plating Code
See to Left

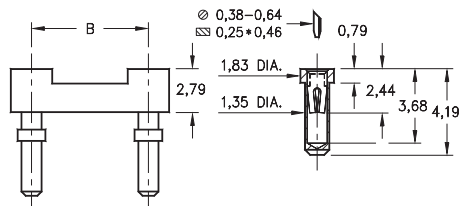
XX=Plating Code
See to Left



Mill-Max Mfg. Corp. • 190 Pine Hollow Road, P.O. Box 300, Oyster Bay, NY 11771 • 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com

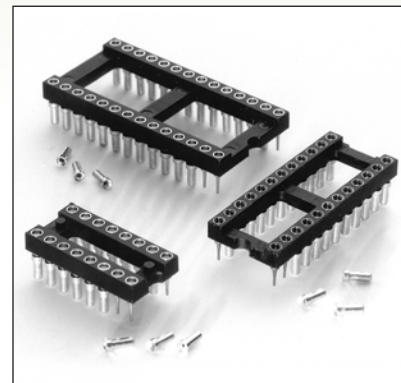
DUAL-IN-LINE SOCKETS

SERIES 614...001 • CARRIER TYPE, LOW PROFILE • OPEN FRAME

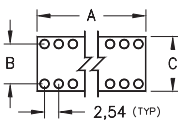


See page 130 for Insulator Details

- Convenient way to load loose receptacles on a PC board
- Removable plastic carriers can be returned for reloading
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 614 uses MM #1401 pins. See page 170 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins				Quantity per tube	ORDERING INFORMATION						
	A	B	C								
10	12,6	5,08	7,6	40	614-XX-210-41-001000						
4	5,0	7,62	10,1	102	614-XX-304-41-001000						
6	7,6	7,62	10,1	67	614-XX-306-41-001000						
8	10,1	7,62	10,1	50	614-XX-308-41-001000						
10	12,6	7,62	10,1	40	614-XX-310-41-001000						
14	17,7	7,62	10,1	28	614-XX-314-41-001000						
16	20,3	7,62	10,1	25	614-XX-316-41-001000						
18	22,8	7,62	10,1	22	614-XX-318-41-001000						
20	25,3	7,62	10,1	20	614-XX-320-41-001000						
22	27,8	7,62	10,1	18	614-XX-322-41-001000						
24	30,4	7,62	10,1	16	614-XX-324-41-001000						
28	35,5	7,62	10,1	14	614-XX-328-41-001000						
20	25,4	10,16	12,7	20	614-XX-420-41-001000						
22	27,8	10,16	12,7	18	614-XX-422-41-001000						
24	30,4	10,16	12,7	16	614-XX-424-41-001000						
28	35,5	10,16	12,7	14	614-XX-428-41-001000						
32	40,6	10,16	12,7	12	614-XX-432-41-001000						
24	30,4	15,24	17,7	16	614-XX-624-41-001000						
28	35,5	15,24	17,7	14	614-XX-628-41-001000						
32	40,6	15,24	17,7	12	614-XX-632-41-001000						
36	45,7	15,24	17,7	11	614-XX-636-41-001000						
40	50,8	15,24	17,7	10	614-XX-640-41-001000						
42	53,3	15,24	17,7	9	614-XX-642-41-001000						
48	60,9	15,24	17,7	8	614-XX-648-41-001000						
50	63,5	15,24	17,7	8	614-XX-650-41-001000						
52	66,0	15,24	17,7	7	614-XX-652-41-001000						
50	63,5	22,86	25,3	8	614-XX-950-41-001000						
52	66,0	22,86	25,3	7	614-XX-952-41-001000						
64	81,2	22,86	25,3	6	614-XX-964-41-001000						
SPECIFY PLATING CODE XX =						91	93		41 ◆	43 ◆	
Sleeve (Pin) 						5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn	
Contact (Clip) 						0,25µm Au	0,76µm Au		0,25µm Au	0,76µm Au	

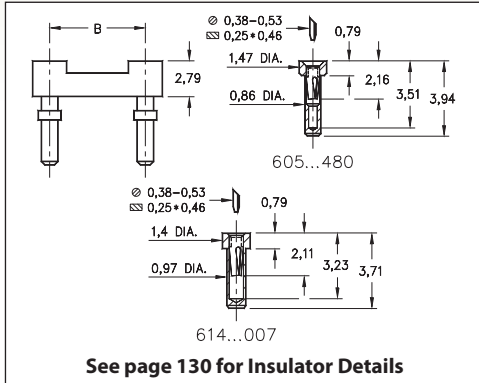
XX=Plating Code
See Below

RoHS-2
2011/65/EU

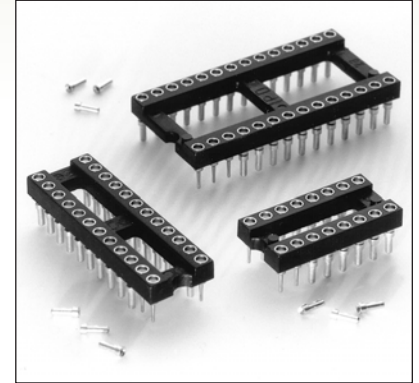


DUAL-IN-LINE SOCKETS

SERIES 605, 614 • CARRIER TYPE, LOW PROFILE • OPEN FRAME



- Low profile receptacles sit only 0,79 high above the board
- Removable plastic carriers can be returned for reloading
- Hi-Rel, 3-finger BeCu #11 contact is rated at 3 amps. See page 251 for details
- Series 605 and 614 use MM #1407 & #0548 pins. See page 157 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins				Quantity per tube	ORDERING INFORMATION					
	A	B	C		Length = 3,71 (0,99 Min. Mounting Hole)	Length = 3,94 (0,89 Min. Mounting Hole)				
10	12,6	5,08	7,6	40	614-XX-210-31-007000	605-XX-210-11-480000				
4	5,0	7,62	10,1	102	614-XX-304-31-007000	605-XX-304-11-480000				
6	7,6	7,62	10,1	68	614-XX-306-31-007000	605-XX-306-11-480000				
8	10,1	7,62	10,1	50	614-XX-308-31-007000	605-XX-308-11-480000				
10	12,6	7,62	10,1	40	614-XX-310-31-007000	605-XX-310-11-480000				
14	17,7	7,62	10,1	28	614-XX-314-31-007000	605-XX-314-11-480000				
16	20,3	7,62	10,1	25	614-XX-316-31-007000	605-XX-316-11-480000				
18	22,8	7,62	10,1	22	614-XX-318-31-007000	605-XX-318-11-480000				
20	25,3	7,62	10,1	20	614-XX-320-31-007000	605-XX-320-11-480000				
22	27,8	7,62	10,1	18	614-XX-322-31-007000	605-XX-322-11-480000				
24	30,4	7,62	10,1	16	614-XX-324-31-007000	605-XX-324-11-480000				
28	35,5	7,62	10,1	14	614-XX-328-31-007000	605-XX-328-11-480000				
20	25,4	10,16	12,7	20	614-XX-420-31-007000	605-XX-420-11-480000				
22	27,8	10,16	12,7	18	614-XX-422-31-007000	605-XX-422-11-480000				
24	30,4	10,16	12,7	16	614-XX-424-31-007000	605-XX-424-11-480000				
28	35,5	10,16	12,7	14	614-XX-428-31-007000	605-XX-428-11-480000				
32	40,6	10,16	12,7	12	614-XX-432-31-007000	605-XX-432-11-480000				
24	30,4	15,24	17,7	16	614-XX-624-31-007000	605-XX-624-11-480000				
28	35,5	15,24	17,7	14	614-XX-628-31-007000	605-XX-628-11-480000				
32	40,6	15,24	17,7	12	614-XX-632-31-007000	605-XX-632-11-480000				
36	45,7	15,24	17,7	11	614-XX-636-31-007000	605-XX-636-11-480000				
40	50,8	15,24	17,7	10	614-XX-640-31-007000	605-XX-640-11-480000				
42	53,3	15,24	17,7	9	614-XX-642-31-007000	605-XX-642-11-480000				
48	60,9	15,24	17,7	8	614-XX-648-31-007000	605-XX-648-11-480000				
50	63,5	15,24	17,7	8	614-XX-650-31-007000	605-XX-650-11-480000				
52	66,0	15,24	17,7	7	614-XX-652-31-007000	605-XX-652-11-480000				
50	63,5	22,86	25,3	8	614-XX-950-31-007000	605-XX-950-11-480000				
52	66,0	22,86	25,3	7	614-XX-952-31-007000	605-XX-952-11-480000				
64	81,2	22,86	25,3	6	614-XX-964-31-007000	605-XX-964-11-480000				
SPECIFY PLATING CODE XX =					91	93	41	43		
Sleeve (Pin)					5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn		
Contact (Clip)					0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au		

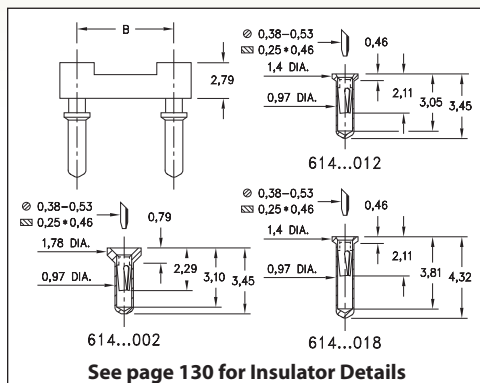


XX=Plating Code
See Below

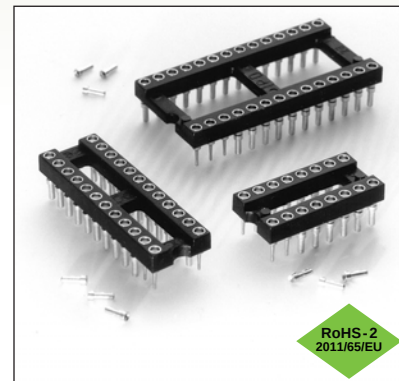


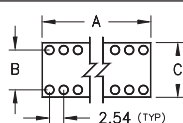
DUAL-IN-LINE SOCKETS

SERIES 614 • CARRIER TYPE, ULTRA LOW PROFILE • OPEN FRAME



- Ultra low profile receptacles sit only 0,46 to 0,79 high above the board
- Removable plastic carriers can be returned for reloading
- Hi-Rel, 3-finger BeCu #11 contact is rated at 3 amps. See page 251 for details
- Series 614 uses MM #0552-1, #0442-0, #0552-2 pins. See pages 157 and 158 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details

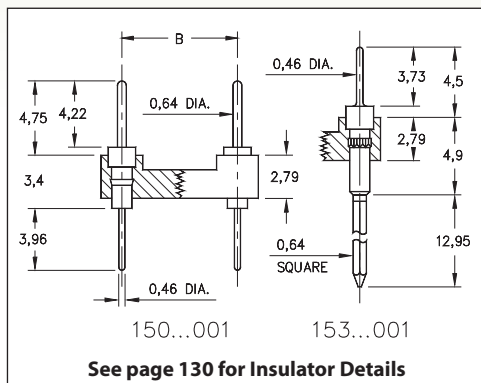


Total number of pins				Quantity per tube	ORDERING INFORMATION					
	A	B	C		Length = 3,45 (1,0 Min. Mounting Hole)	Length = 3,45 (1,0 Min. Mounting Hole)	Length = 4,32 (1,0 Min. Mounting Hole)			
10	12,6	5,08	7,6	40	614-XX-210-31-012000	614-XX-210-31-002000	614-XX-210-31-018000			
4	5,0	7,62	10,1	102	614-XX-304-31-012000	614-XX-304-31-002000	614-XX-304-31-018000			
6	7,6	7,62	10,1	67	614-XX-306-31-012000	614-XX-306-31-002000	614-XX-306-31-018000			
8	10,1	7,62	10,1	50	614-XX-308-31-012000	614-XX-308-31-002000	614-XX-308-31-018000			
10	12,6	7,62	10,1	40	614-XX-310-31-012000	614-XX-310-31-002000	614-XX-310-31-018000			
14	17,7	7,62	10,1	28	614-XX-314-31-012000	614-XX-314-31-002000	614-XX-314-31-018000			
16	20,3	7,62	10,1	25	614-XX-316-31-012000	614-XX-316-31-002000	614-XX-316-31-018000			
18	22,8	7,62	10,1	22	614-XX-318-31-012000	614-XX-318-31-002000	614-XX-318-31-018000			
20	25,3	7,62	10,1	20	614-XX-320-31-012000	614-XX-320-31-002000	614-XX-320-31-018000			
22	27,8	7,62	10,1	18	614-XX-322-31-012000	614-XX-322-31-002000	614-XX-322-31-018000			
24	30,4	7,62	10,1	16	614-XX-324-31-012000	614-XX-324-31-002000	614-XX-324-31-018000			
28	35,5	7,62	10,1	14	614-XX-328-31-012000	614-XX-328-31-002000	614-XX-328-31-018000			
20	25,4	10,16	12,7	20	614-XX-420-31-012000	614-XX-420-31-002000	614-XX-420-31-018000			
22	27,8	10,16	12,7	18	614-XX-422-31-012000	614-XX-422-31-002000	614-XX-422-31-018000			
24	30,4	10,16	12,7	16	614-XX-424-31-012000	614-XX-424-31-002000	614-XX-424-31-018000			
28	35,5	10,16	12,7	14	614-XX-428-31-012000	614-XX-428-31-002000	614-XX-428-31-018000			
32	40,6	10,16	12,7	12	614-XX-432-31-012000	614-XX-432-31-002000	614-XX-432-31-018000			
24	30,4	15,24	17,7	16	614-XX-624-31-012000	614-XX-624-31-002000	614-XX-624-31-018000			
28	35,5	15,24	17,7	14	614-XX-628-31-012000	614-XX-628-31-002000	614-XX-628-31-018000			
32	40,6	15,24	17,7	12	614-XX-632-31-012000	614-XX-632-31-002000	614-XX-632-31-018000			
36	45,7	15,24	17,7	11	614-XX-636-31-012000	614-XX-636-31-002000	614-XX-636-31-018000			
40	50,8	15,24	17,7	10	614-XX-640-31-012000	614-XX-640-31-002000	614-XX-640-31-018000			
42	53,3	15,24	17,7	9	614-XX-642-31-012000	614-XX-642-31-002000	614-XX-642-31-018000			
48	60,9	15,24	17,7	8	614-XX-648-31-012000	614-XX-648-31-002000	614-XX-648-31-018000			
50	63,5	15,24	17,7	8	614-XX-650-31-012000	614-XX-650-31-002000	614-XX-650-31-018000			
52	66,0	15,24	17,7	7	614-XX-652-31-012000	614-XX-652-31-002000	614-XX-652-31-018000			
50	63,5	22,86	25,3	8	614-XX-950-31-012000	614-XX-950-31-002000	614-XX-950-31-018000			
52	66,0	22,86	25,3	7	614-XX-952-31-012000	614-XX-952-31-002000	614-XX-952-31-018000			
64	81,2	22,86	25,3	6	614-XX-964-31-012000	614-XX-964-31-002000	614-XX-964-31-018000			
SPECIFY PLATING CODE XX =						91	93	41 ◆	43 ◆	XX=Plating Code See to Left
Sleeve (Pin) 						5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	
Contact (Clip) 						0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	

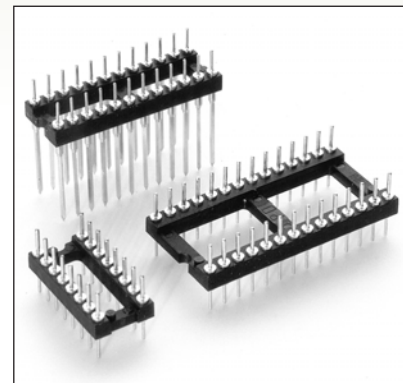


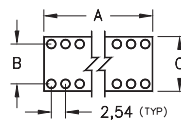
DUAL-IN-LINE HEADERS

SERIES 150, 153 • SOLDER TAIL AND WRAPOST • OPEN FRAME



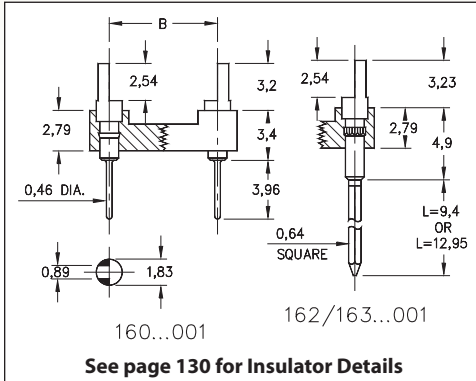
- Series 150 DIL Headers are equipped with 0,64 dia. pins MM #0290. See page 215 for details
- Series 153 DIL Headers have 3-level wraposts MM #5301. See page 227 for details
- Both series have 0,46 dia. solder tails which are pluggable into standard contacts
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins				Quantity per tube	ORDERING INFORMATION					
	A	B	C		Solder Tail		3 Level Wrapost			
10	12,6	5,08	7,6	40	150-XX-210-00-001000	153-XX-210-00-001000	RoHS - 2 2011/65/EU XX=Plating Code See Below			
4	5,0	7,62	10,1	102	150-XX-304-00-001000	153-XX-304-00-001000				
6	7,6	7,62	10,1	67	150-XX-306-00-001000	153-XX-306-00-001000				
8	10,1	7,62	10,1	50	150-XX-308-00-001000	153-XX-308-00-001000				
10	12,6	7,62	10,1	40	150-XX-310-00-001000	153-XX-310-00-001000				
14	17,7	7,62	10,1	29	150-XX-314-00-001000	153-XX-314-00-001000				
16	20,3	7,62	10,1	25	150-XX-316-00-001000	153-XX-316-00-001000				
18	22,8	7,62	10,1	22	150-XX-318-00-001000	153-XX-318-00-001000				
20	25,3	7,62	10,1	20	150-XX-320-00-001000	153-XX-320-00-001000				
22	27,8	7,62	10,1	18	150-XX-322-00-001000	153-XX-322-00-001000				
24	30,4	7,62	10,1	16	150-XX-324-00-001000	153-XX-324-00-001000				
28	35,5	7,62	10,1	14	150-XX-328-00-001000	153-XX-328-00-001000				
20	25,4	10,16	12,7	20	150-XX-420-00-001000	153-XX-420-00-001000				
22	27,8	10,16	12,7	18	150-XX-422-00-001000	153-XX-422-00-001000				
24	30,4	10,16	12,7	16	150-XX-424-00-001000	153-XX-424-00-001000				
28	35,5	10,16	12,7	14	150-XX-428-00-001000	153-XX-428-00-001000				
32	40,6	10,16	12,7	12	150-XX-432-00-001000	153-XX-432-00-001000				
24	30,4	15,24	17,7	16	150-XX-624-00-001000	153-XX-624-00-001000				
28	35,5	15,24	17,7	14	150-XX-628-00-001000	153-XX-628-00-001000				
32	40,6	15,24	17,7	12	150-XX-632-00-001000	153-XX-632-00-001000				
36	45,7	15,24	17,7	11	150-XX-636-00-001000	153-XX-636-00-001000				
40	50,8	15,24	17,7	10	150-XX-640-00-001000	153-XX-640-00-001000				
42	53,3	15,24	17,7	9	150-XX-642-00-001000	153-XX-642-00-001000				
48	60,9	15,24	17,7	8	150-XX-648-00-001000	153-XX-648-00-001000				
50	63,5	15,24	17,7	8	150-XX-650-00-001000	153-XX-650-00-001000				
52	66,0	15,24	17,7	7	150-XX-652-00-001000	153-XX-652-00-001000				
50	63,5	22,86	25,3	8	150-XX-950-00-001000	153-XX-950-00-001000				
52	66,0	22,86	25,3	7	150-XX-952-00-001000	153-XX-952-00-001000				
64	81,2	22,86	25,3	6	150-XX-964-00-001000	153-XX-964-00-001000				
					SPECIFY PLATING CODE XX =			10 	90	40 
					Pin Plating 		0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

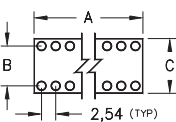
DUAL-IN-LINE HEADERS

SERIES 160, 162, 163 • SLOTTED, SOLDER TAIL & WRAPOST • OPEN FRAME



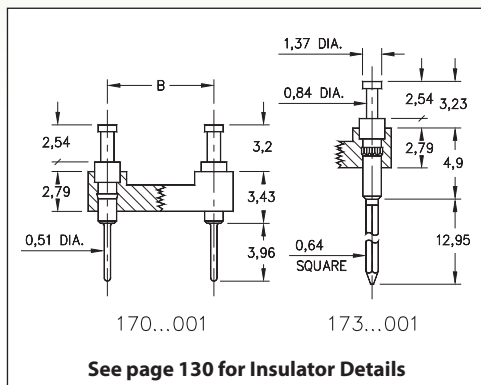
- Series 160, 162, and 163 DIL Headers are equipped with slotted heads to accept wires or component leads
- Series 160 terminations are pluggable 0,46 dia. solder tails MM #0282, See page 216 for details. Series 162 and 163 terminations are two or three level wraposts MM #1106. See page 228 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



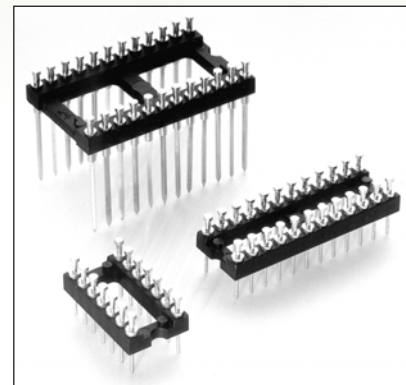
Total number of pins				Quantity per tube	ORDERING INFORMATION					
	A	B	C		Solder Tail	L = 9,4 (2 Level Wrapost)	L = 12,95 (3 Level Wrapost)			
10	12,6	5,08	7,6	41	160-XX-210-00-001000	162-XX-210-00-001000	163-XX-210-00-001000			
4	5,0	7,62	10,1	102	160-XX-304-00-001000	162-XX-304-00-001000	163-XX-304-00-001000			
6	7,6	7,62	10,1	67	160-XX-306-00-001000	162-XX-306-00-001000	163-XX-306-00-001000			
8	10,1	7,62	10,1	50	160-XX-308-00-001000	162-XX-308-00-001000	163-XX-308-00-001000			
10	12,6	7,62	10,1	40	160-XX-310-00-001000	162-XX-310-00-001000	163-XX-310-00-001000			
14	17,7	7,62	10,1	28	160-XX-314-00-001000	162-XX-314-00-001000	163-XX-314-00-001000			
16	20,3	7,62	10,1	25	160-XX-316-00-001000	162-XX-316-00-001000	163-XX-316-00-001000			
18	22,8	7,62	10,1	22	160-XX-318-00-001000	162-XX-318-00-001000	163-XX-318-00-001000			
20	25,3	7,62	10,1	20	160-XX-320-00-001000	162-XX-320-00-001000	163-XX-320-00-001000			
22	27,8	7,62	10,1	18	160-XX-322-00-001000	162-XX-322-00-001000	163-XX-322-00-001000			
24	30,4	7,62	10,1	16	160-XX-324-00-001000	162-XX-324-00-001000	163-XX-324-00-001000			
28	35,5	7,62	10,1	14	160-XX-328-00-001000	162-XX-328-00-001000	163-XX-328-00-001000			
20	25,4	10,16	12,7	20	160-XX-420-00-001000	162-XX-420-00-001000	163-XX-420-00-001000			
22	27,8	10,16	12,7	18	160-XX-422-00-001000	162-XX-422-00-001000	163-XX-422-00-001000			
24	30,4	10,16	12,7	16	160-XX-424-00-001000	162-XX-424-00-001000	163-XX-424-00-001000			
28	35,5	10,16	12,7	14	160-XX-428-00-001000	162-XX-428-00-001000	163-XX-428-00-001000			
32	40,6	10,16	12,7	12	160-XX-432-00-001000	162-XX-432-00-001000	163-XX-432-00-001000			
24	30,4	15,24	17,7	16	160-XX-624-00-001000	162-XX-624-00-001000	163-XX-624-00-001000			
28	35,5	15,24	17,7	14	160-XX-628-00-001000	162-XX-628-00-001000	163-XX-628-00-001000			
32	40,6	15,24	17,7	12	160-XX-632-00-001000	162-XX-632-00-001000	163-XX-632-00-001000			
36	45,7	15,24	17,7	11	160-XX-636-00-001000	162-XX-636-00-001000	163-XX-636-00-001000			
40	50,8	15,24	17,7	10	160-XX-640-00-001000	162-XX-640-00-001000	163-XX-640-00-001000			
42	53,3	15,24	17,7	9	160-XX-642-00-001000	162-XX-642-00-001000	163-XX-642-00-001000			
48	60,9	15,24	17,7	8	160-XX-648-00-001000	162-XX-648-00-001000	163-XX-648-00-001000			
50	63,5	15,24	17,7	8	160-XX-650-00-001000	162-XX-650-00-001000	163-XX-650-00-001000			
52	66,0	15,24	17,7	7	160-XX-652-00-001000	162-XX-652-00-001000	163-XX-652-00-001000			
50	63,5	22,86	25,3	8	160-XX-950-00-001000	162-XX-950-00-001000	163-XX-950-00-001000			
52	66,0	22,86	25,3	7	160-XX-952-00-001000	162-XX-952-00-001000	163-XX-952-00-001000			
64	81,2	22,86	25,3	6	160-XX-964-00-001000	162-XX-964-00-001000	163-XX-964-00-001000			
XX=Plating Code See to Right					SPECIFY PLATING CODE XX =		10 ◆	90	40 ◆	
					Pin Plating 		0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

DUAL-IN-LINE HEADERS

SERIES 170, 173 • TURRET, SOLDER TAIL & WRAPOST • OPEN FRAME



- Series 170 & 173 DIL headers are equipped with turret heads for wiring applications
- Series 170 terminations are pluggable 0,51 dia. solder tails MM #0700, See page 216 for details. Series 173 terminations are three level wraposts MM #0730. See page 228 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



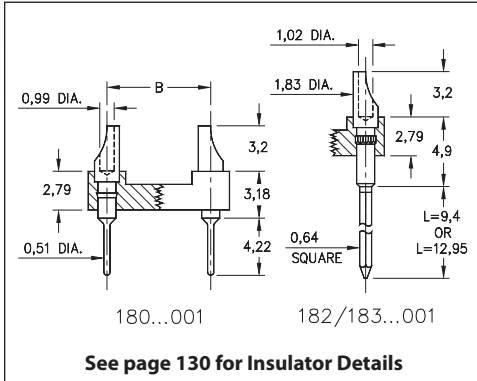
Total number of pins				Quantity per tube	ORDERING INFORMATION			
	A	B	C		Solder Tail	3 Level Wrapost		
10	12,6	5,08	7,6	41	170-XX-210-00-001000	173-XX-210-00-001000		
4	5,0	7,62	10,1	102	170-XX-304-00-001000	173-XX-304-00-001000		
6	7,6	7,62	10,1	67	170-XX-306-00-001000	173-XX-306-00-001000		
8	10,1	7,62	10,1	50	170-XX-308-00-001000	173-XX-308-00-001000		
10	12,6	7,62	10,1	40	170-XX-310-00-001000	173-XX-310-00-001000		
14	17,7	7,62	10,1	28	170-XX-314-00-001000	173-XX-314-00-001000		
16	20,3	7,62	10,1	25	170-XX-316-00-001000	173-XX-316-00-001000		
18	22,8	7,62	10,1	22	170-XX-318-00-001000	173-XX-318-00-001000		
20	25,3	7,62	10,1	20	170-XX-320-00-001000	173-XX-320-00-001000		
22	27,8	7,62	10,1	18	170-XX-322-00-001000	173-XX-322-00-001000		
24	30,4	7,62	10,1	16	170-XX-324-00-001000	173-XX-324-00-001000		
28	35,5	7,62	10,1	14	170-XX-328-00-001000	173-XX-328-00-001000		
20	25,4	10,16	12,7	20	170-XX-420-00-001000	173-XX-420-00-001000		
22	27,8	10,16	12,7	18	170-XX-422-00-001000	173-XX-422-00-001000		
24	30,4	10,16	12,7	16	170-XX-424-00-001000	173-XX-424-00-001000		
28	35,5	10,16	12,7	14	170-XX-428-00-001000	173-XX-428-00-001000		
32	40,6	10,16	12,7	12	170-XX-432-00-001000	173-XX-432-00-001000		
24	30,4	15,24	17,7	16	170-XX-624-00-001000	173-XX-624-00-001000		
28	35,5	15,24	17,7	14	170-XX-628-00-001000	173-XX-628-00-001000		
32	40,6	15,24	17,7	12	170-XX-632-00-001000	173-XX-632-00-001000		
36	45,7	15,24	17,7	11	170-XX-636-00-001000	173-XX-636-00-001000		
40	50,8	15,24	17,7	10	170-XX-640-00-001000	173-XX-640-00-001000		
42	53,3	15,24	17,7	9	170-XX-642-00-001000	173-XX-642-00-001000		
48	60,9	15,24	17,7	8	170-XX-648-00-001000	173-XX-648-00-001000		
50	63,5	15,24	17,7	8	170-XX-650-00-001000	173-XX-650-00-001000		
52	66,0	15,24	17,7	7	170-XX-652-00-001000	173-XX-652-00-001000		
50	63,5	22,86	25,3	8	170-XX-950-00-001000	173-XX-950-00-001000		
52	66,0	22,86	25,3	7	170-XX-952-00-001000	173-XX-952-00-001000		
64	81,2	22,86	25,3	6	170-XX-964-00-001000	173-XX-964-00-001000		
					SPECIFY PLATING CODE XX =	10 ◆	90	40 ◆
					Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn

RoHS-2
2011/65/EU

XX=Plating Code
See Below

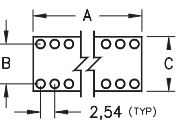
DUAL-IN-LINE HEADERS

SERIES 180, 182, 183 • SOLDER CUP, SOLDER TAIL & WRAPOST • OPEN FRAME



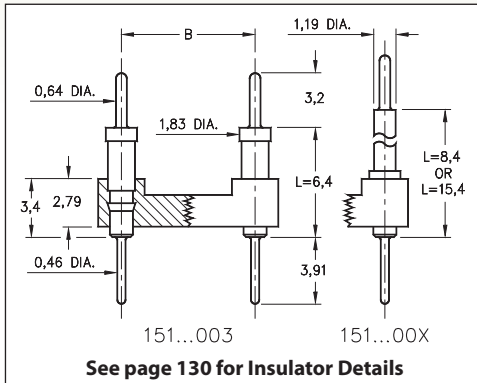
- Series 180, 182, and 183 DIL Headers are equipped with solder cups for wiring applications
- Series 180 terminations are pluggable 0,51 dia. solder tails MM #8000, See page 216 for details. Series 182 and 183 terminations are two or three level wraposts MM #8301. See page 227 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins				Quantity per tube	ORDERING INFORMATION				
	A	B	C		Solder Tail	L = 9,4 (2 Level Wrapost)	L = 12,95 (3 Level Wrapost)		
10	12,6	5,08	7,6	41	180-10-210-00-001000	182-10-210-00-001000	183-10-210-00-001000		
4	5,0	7,62	10,1	102	180-10-304-00-001000	182-10-304-00-001000	183-10-304-00-001000		
6	7,6	7,62	10,1	67	180-10-306-00-001000	182-10-306-00-001000	183-10-306-00-001000		
8	10,1	7,62	10,1	50	180-10-308-00-001000	182-10-308-00-001000	183-10-308-00-001000		
10	12,6	7,62	10,1	40	180-10-310-00-001000	182-10-310-00-001000	183-10-310-00-001000		
14	17,7	7,62	10,1	28	180-10-314-00-001000	182-10-314-00-001000	183-10-314-00-001000		
16	20,3	7,62	10,1	25	180-10-316-00-001000	182-10-316-00-001000	183-10-316-00-001000		
18	22,8	7,62	10,1	22	180-10-318-00-001000	182-10-318-00-001000	183-10-318-00-001000		
20	25,3	7,62	10,1	20	180-10-320-00-001000	182-10-320-00-001000	183-10-320-00-001000		
22	27,8	7,62	10,1	18	180-10-322-00-001000	182-10-322-00-001000	183-10-322-00-001000		
24	30,4	7,62	10,1	16	180-10-324-00-001000	182-10-324-00-001000	183-10-324-00-001000		
28	35,5	7,62	10,1	14	180-10-328-00-001000	182-10-328-00-001000	183-10-328-00-001000		
20	25,4	10,16	12,7	20	180-10-420-00-001000	182-10-420-00-001000	183-10-420-00-001000		
22	27,8	10,16	12,7	18	180-10-422-00-001000	182-10-422-00-001000	183-10-422-00-001000		
24	30,4	10,16	12,7	16	180-10-424-00-001000	182-10-424-00-001000	183-10-424-00-001000		
28	35,5	10,16	12,7	14	180-10-428-00-001000	182-10-428-00-001000	183-10-428-00-001000		
32	40,6	10,16	12,7	12	180-10-432-00-001000	182-10-432-00-001000	183-10-432-00-001000		
24	30,4	15,24	17,7	16	180-10-624-00-001000	182-10-624-00-001000	183-10-624-00-001000		
28	35,5	15,24	17,7	14	180-10-628-00-001000	182-10-628-00-001000	183-10-628-00-001000		
32	40,6	15,24	17,7	12	180-10-632-00-001000	182-10-632-00-001000	183-10-632-00-001000		
36	45,7	15,24	17,7	11	180-10-636-00-001000	182-10-636-00-001000	183-10-636-00-001000		
40	50,8	15,24	17,7	10	180-10-640-00-001000	182-10-640-00-001000	183-10-640-00-001000		
42	53,3	15,24	17,7	9	180-10-642-00-001000	182-10-642-00-001000	183-10-642-00-001000		
48	60,9	15,24	17,7	8	180-10-648-00-001000	182-10-648-00-001000	183-10-648-00-001000		
50	63,5	15,24	17,7	8	180-10-650-00-001000	182-10-650-00-001000	183-10-650-00-001000		
52	66,0	15,24	17,7	7	180-10-652-00-001000	182-10-652-00-001000	183-10-652-00-001000		
50	63,5	22,86	25,3	8	180-10-950-00-001000	182-10-950-00-001000	183-10-950-00-001000		
52	66,0	22,86	25,3	7	180-10-952-00-001000	182-10-952-00-001000	183-10-952-00-001000		
64	81,2	22,86	25,3	6	180-10-964-00-001000	182-10-964-00-001000	183-10-964-00-001000		
XX=Plating Code See to Right					SPECIFY PLATING CODE XX =		10 ◆		
					Pin Plating 		0,25µm Au		

DUAL-IN-LINE HEADERS

SERIES 151...003, 004, 005 • INTERCONNECT • OPEN FRAME



- Series 151 DIL Headers combine 0,64 dia. tails with pluggable 0,46 dia. solder tails

- Series:
151...003 uses MM #5503 pins
151...004 uses MM #5504 pins
151...005 uses MM #5505 pins
See page 214 for details

- Insulators are high temperature thermoplastic, suitable for all soldering operations

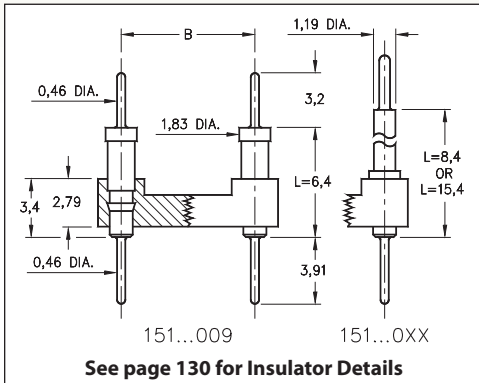
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins				Quantity per tube	ORDERING INFORMATION		
	A	B	C		L = 6,4	L = 8,4	L = 15,4
10	12,6	5,08	7,6	41	151-10-210-00-003000	151-10-210-00-004000	151-10-210-00-005000
4	5,0	7,62	10,1	102	151-10-304-00-003000	151-10-304-00-004000	151-10-304-00-005000
6	7,6	7,62	10,1	67	151-10-306-00-003000	151-10-306-00-004000	151-10-306-00-005000
8	10,1	7,62	10,1	50	151-10-308-00-003000	151-10-308-00-004000	151-10-308-00-005000
10	12,6	7,62	10,1	40	151-10-310-00-003000	151-10-310-00-004000	151-10-310-00-005000
14	17,7	7,62	10,1	28	151-10-314-00-003000	151-10-314-00-004000	151-10-314-00-005000
16	20,3	7,62	10,1	25	151-10-316-00-003000	151-10-316-00-004000	151-10-316-00-005000
18	22,8	7,62	10,1	22	151-10-318-00-003000	151-10-318-00-004000	151-10-318-00-005000
20	25,3	7,62	10,1	20	151-10-320-00-003000	151-10-320-00-004000	151-10-320-00-005000
22	27,8	7,62	10,1	18	151-10-322-00-003000	151-10-322-00-004000	151-10-322-00-005000
24	30,4	7,62	10,1	16	151-10-324-00-003000	151-10-324-00-004000	151-10-324-00-005000
28	35,5	7,62	10,1	14	151-10-328-00-003000	151-10-328-00-004000	151-10-328-00-005000
20	25,4	10,16	12,7	20	151-10-420-00-003000	151-10-420-00-004000	151-10-420-00-005000
22	27,8	10,16	12,7	18	151-10-422-00-003000	151-10-422-00-004000	151-10-422-00-005000
24	30,4	10,16	12,7	16	151-10-424-00-003000	151-10-424-00-004000	151-10-424-00-005000
28	35,5	10,16	12,7	14	151-10-428-00-003000	151-10-428-00-004000	151-10-428-00-005000
32	40,6	10,16	12,7	12	151-10-432-00-003000	151-10-432-00-004000	151-10-432-00-005000
24	30,4	15,24	17,7	16	151-10-624-00-003000	151-10-624-00-004000	151-10-624-00-005000
28	35,5	15,24	17,7	14	151-10-628-00-003000	151-10-628-00-004000	151-10-628-00-005000
32	40,6	15,24	17,7	12	151-10-632-00-003000	151-10-632-00-004000	151-10-632-00-005000
36	45,7	15,24	17,7	11	151-10-636-00-003000	151-10-636-00-004000	151-10-636-00-005000
40	50,8	15,24	17,7	10	151-10-640-00-003000	151-10-640-00-004000	151-10-640-00-005000
42	53,3	15,24	17,7	9	151-10-642-00-003000	151-10-642-00-004000	151-10-642-00-005000
48	60,9	15,24	17,7	8	151-10-648-00-003000	151-10-648-00-004000	151-10-648-00-005000
50	63,5	15,24	17,7	8	151-10-650-00-003000	151-10-650-00-004000	151-10-650-00-005000
52	66,0	15,24	17,7	7	151-10-652-00-003000	151-10-652-00-004000	151-10-652-00-005000
50	63,5	22,86	25,3	8	151-10-950-00-003000	151-10-950-00-004000	151-10-950-00-005000
52	66,0	22,86	25,3	7	151-10-952-00-003000	151-10-952-00-004000	151-10-952-00-005000
64	81,2	22,86	25,3	6	151-10-964-00-003000	151-10-964-00-004000	151-10-964-00-005000
XX=Plating Code See to Right					SPECIFY PLATING CODE XX =	10 ◆	
					Pin Plating	0,25µm Au	

DUAL-IN-LINE HEADERS

SERIES 151...009, 010, 011 • INTERCONNECT • OPEN FRAME



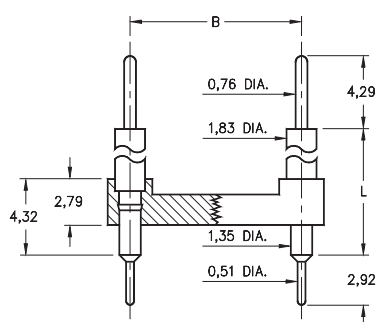
- Series 151 DIL Headers feature 0,46 dia. solder tails at both ends making these headers entirely pluggable
- Series:
 - 151...009 uses MM #5509 pins
 - 151...010 uses MM #5510 pins
 - 151...011 uses MM #5511 pins
 See pages 212 and 214 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins				Quantity per tube	ORDERING INFORMATION		
	A	B	C		L = 6,4	L = 8,4	L = 15,4
10	12,6	5,08	7,6	41	151-10-210-00-009000	151-10-210-00-010000	151-10-210-00-011000
4	5,0	7,62	10,1	102	151-10-304-00-009000	151-10-304-00-010000	151-10-304-00-011000
6	7,6	7,62	10,1	67	151-10-306-00-009000	151-10-306-00-010000	151-10-306-00-011000
8	10,1	7,62	10,1	50	151-10-308-00-009000	151-10-308-00-010000	151-10-308-00-011000
10	12,6	7,62	10,1	40	151-10-310-00-009000	151-10-310-00-010000	151-10-310-00-011000
14	17,7	7,62	10,1	28	151-10-314-00-009000	151-10-314-00-010000	151-10-314-00-011000
16	20,3	7,62	10,1	25	151-10-316-00-009000	151-10-316-00-010000	151-10-316-00-011000
18	22,8	7,62	10,1	22	151-10-318-00-009000	151-10-318-00-010000	151-10-318-00-011000
20	25,3	7,62	10,1	20	151-10-320-00-009000	151-10-320-00-010000	151-10-320-00-011000
22	27,8	7,62	10,1	18	151-10-322-00-009000	151-10-322-00-010000	151-10-322-00-011000
24	30,4	7,62	10,1	16	151-10-324-00-009000	151-10-324-00-010000	151-10-324-00-011000
28	35,5	7,62	10,1	14	151-10-328-00-009000	151-10-328-00-010000	151-10-328-00-011000
20	25,4	10,16	12,7	20	151-10-420-00-009000	151-10-420-00-010000	151-10-420-00-011000
22	27,8	10,16	12,7	18	151-10-422-00-009000	151-10-422-00-010000	151-10-422-00-011000
24	30,4	10,16	12,7	16	151-10-424-00-009000	151-10-424-00-010000	151-10-424-00-011000
28	35,5	10,16	12,7	14	151-10-428-00-009000	151-10-428-00-010000	151-10-428-00-011000
32	40,6	10,16	12,7	12	151-10-432-00-009000	151-10-432-00-010000	151-10-432-00-011000
24	30,4	15,24	17,7	16	151-10-624-00-009000	151-10-624-00-010000	151-10-624-00-011000
28	35,5	15,24	17,7	14	151-10-628-00-009000	151-10-628-00-010000	151-10-628-00-011000
32	40,6	15,24	17,7	12	151-10-632-00-009000	151-10-632-00-010000	151-10-632-00-011000
36	45,7	15,24	17,7	11	151-10-636-00-009000	151-10-636-00-010000	151-10-636-00-011000
40	50,8	15,24	17,7	10	151-10-640-00-009000	151-10-640-00-010000	151-10-640-00-011000
42	53,3	15,24	17,7	9	151-10-642-00-009000	151-10-642-00-010000	151-10-642-00-011000
48	60,9	15,24	17,7	8	151-10-648-00-009000	151-10-648-00-010000	151-10-648-00-011000
50	63,5	15,24	17,7	8	151-10-650-00-009000	151-10-650-00-010000	151-10-650-00-011000
52	66,0	15,24	17,7	7	151-10-652-00-009000	151-10-652-00-010000	151-10-652-00-011000
50	63,5	22,86	25,3	8	151-10-950-00-009000	151-10-950-00-010000	151-10-950-00-011000
52	66,0	22,86	25,3	7	151-10-952-00-009000	151-10-952-00-010000	151-10-952-00-011000
64	81,2	22,86	25,3	6	151-10-964-00-009000	151-10-964-00-010000	151-10-964-00-011000
XX=Plating Code See to Right					SPECIFY PLATING CODE XX =		
					Pin Plating	10	
						0,25µm Au	

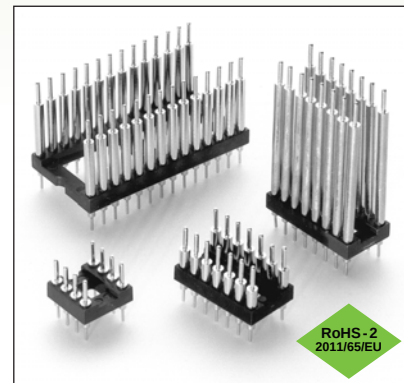
DUAL-IN-LINE HEADERS

SERIES 134 • INTERCONNECT • OPEN FRAME



See page 130 for Insulator Details

- Series 134 DIL Headers combine 0,76 diameter pins with pluggable 0,51 diameter solder tails
- Series:
134...020 uses MM #3402 pins
134...010 uses MM #3401 pins
134...050 uses MM #3405 pins
134...000 uses MM #3400 pins
134...100 uses MM #3410 pins
See page 215 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



RoHS-2
2011/65/EU

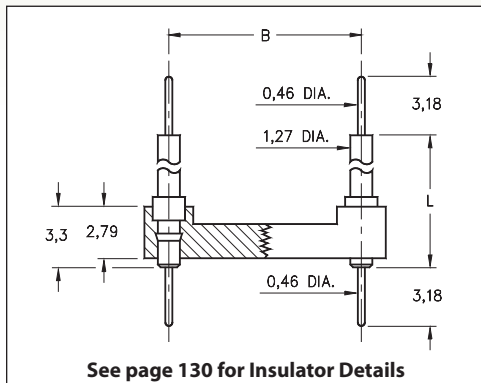
Total number of pins				Quantity per tube	ORDERING INFORMATION				
	A	B	C		L = 4,83	L = 5,99	L = 8,0	L = 15,37	L = 27,18
10	12,6	5,08	7,6	41	134-10-210-00-020000	134-10-210-00-010000	134-10-210-00-050000	134-10-210-00-000000	134-10-210-00-100000
4	5,0	7,62	10,1	102	134-10-304-00-020000	134-10-304-00-010000	134-10-304-00-050000	134-10-304-00-000000	134-10-304-00-100000
6	7,6	7,62	10,1	67	134-10-306-00-020000	134-10-306-00-010000	134-10-306-00-050000	134-10-306-00-000000	134-10-306-00-100000
8	10,1	7,62	10,1	50	134-10-308-00-020000	134-10-308-00-010000	134-10-308-00-050000	134-10-308-00-000000	134-10-308-00-100000
10	12,6	7,62	10,1	40	134-10-310-00-020000	134-10-310-00-010000	134-10-310-00-050000	134-10-310-00-000000	134-10-310-00-100000
14	17,7	7,62	10,1	28	134-10-314-00-020000	134-10-314-00-010000	134-10-314-00-050000	134-10-314-00-000000	134-10-314-00-100000
16	20,3	7,62	10,1	25	134-10-316-00-020000	134-10-316-00-010000	134-10-316-00-050000	134-10-316-00-000000	134-10-316-00-100000
18	22,8	7,62	10,1	22	134-10-318-00-020000	134-10-318-00-010000	134-10-318-00-050000	134-10-318-00-000000	134-10-318-00-100000
20	25,3	7,62	10,1	20	134-10-320-00-020000	134-10-320-00-010000	134-10-320-00-050000	134-10-320-00-000000	134-10-320-00-100000
22	27,8	7,62	10,1	18	134-10-322-00-020000	134-10-322-00-010000	134-10-322-00-050000	134-10-322-00-000000	134-10-322-00-100000
24	30,4	7,62	10,1	16	134-10-324-00-020000	134-10-324-00-010000	134-10-324-00-050000	134-10-324-00-000000	134-10-324-00-100000
28	35,5	7,62	10,1	14	134-10-328-00-020000	134-10-328-00-010000	134-10-328-00-050000	134-10-328-00-000000	134-10-328-00-100000
20	25,4	10,16	12,7	20	134-10-420-00-020000	134-10-420-00-010000	134-10-420-00-050000	134-10-420-00-000000	134-10-420-00-100000
22	27,8	10,16	12,7	18	134-10-422-00-020000	134-10-422-00-010000	134-10-422-00-050000	134-10-422-00-000000	134-10-422-00-100000
24	30,4	10,16	12,7	16	134-10-424-00-020000	134-10-424-00-010000	134-10-424-00-050000	134-10-424-00-000000	134-10-424-00-100000
28	35,5	10,16	12,7	14	134-10-428-00-020000	134-10-428-00-010000	134-10-428-00-050000	134-10-428-00-000000	134-10-428-00-100000
32	40,6	10,16	12,7	12	134-10-432-00-020000	134-10-432-00-010000	134-10-432-00-050000	134-10-432-00-000000	134-10-432-00-100000
24	30,4	15,24	17,7	16	134-10-624-00-020000	134-10-624-00-010000	134-10-624-00-050000	134-10-624-00-000000	134-10-624-00-100000
28	35,5	15,24	17,7	14	134-10-628-00-020000	134-10-628-00-010000	134-10-628-00-050000	134-10-628-00-000000	134-10-628-00-100000
32	40,6	15,24	17,7	12	134-10-632-00-020000	134-10-632-00-010000	134-10-632-00-050000	134-10-632-00-000000	134-10-632-00-100000
36	45,7	15,24	17,7	11	134-10-636-00-020000	134-10-636-00-010000	134-10-636-00-050000	134-10-636-00-000000	134-10-636-00-100000
40	50,8	15,24	17,7	10	134-10-640-00-020000	134-10-640-00-010000	134-10-640-00-050000	134-10-640-00-000000	134-10-640-00-100000
42	53,3	15,24	17,7	9	134-10-642-00-020000	134-10-642-00-010000	134-10-642-00-050000	134-10-642-00-000000	134-10-642-00-100000
48	60,9	15,24	17,7	8	134-10-648-00-020000	134-10-648-00-010000	134-10-648-00-050000	134-10-648-00-000000	134-10-648-00-100000
50	63,5	15,24	17,7	8	134-10-650-00-020000	134-10-650-00-010000	134-10-650-00-050000	134-10-650-00-000000	134-10-650-00-100000
52	66,0	15,24	17,7	7	134-10-652-00-020000	134-10-652-00-010000	134-10-652-00-050000	134-10-652-00-000000	134-10-652-00-100000
50	63,5	22,86	25,3	8	134-10-950-00-020000	134-10-950-00-010000	134-10-950-00-050000	134-10-950-00-000000	134-10-950-00-100000
52	66,0	22,86	25,3	7	134-10-952-00-020000	134-10-952-00-010000	134-10-952-00-050000	134-10-952-00-000000	134-10-952-00-100000
64	81,2	22,86	25,3	6	134-10-964-00-020000	134-10-964-00-010000	134-10-964-00-050000	134-10-964-00-000000	134-10-964-00-100000
XX=Plating Code See to Right					SPECIFY PLATING CODE XX =		10 ◆		
					Pin Plating		0,25µm Au		



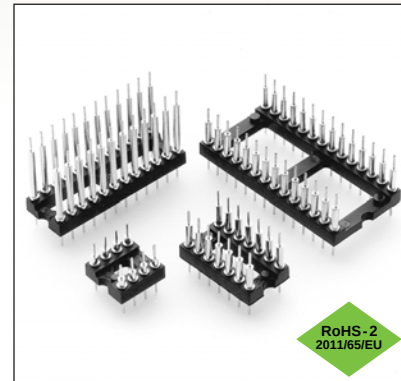
Mill-Max Mfg. Corp. • 190 Pine Hollow Road, P.O. Box 300, Oyster Bay, NY 11771 • 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com

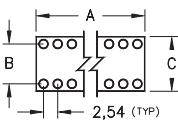
DUAL-IN-LINE HEADERS

SERIES 142 • INTERCONNECT • OPEN FRAME



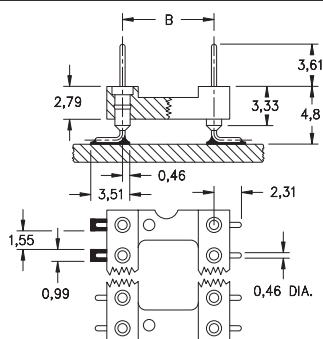
- Series 142 DIL Headers have double-ended 0,46 diameter pluggable solder tails
- Used to interconnect PC Boards with spacings of 5,33, 8,51, 14,86 or 21,21. Series 142 uses MM #4259-1, -2, -3 or -4 pins. See page 212 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins				Quantity per tube	ORDERING INFORMATION					
	A	B	C		L = 5,33	L = 8,51	L = 14,86	L = 21,21		
6	7,6	7,62	10,1	67	142-XX-306-00-591000	142-XX-306-00-592000	142-XX-306-00-593000	142-XX-306-00-594000		
8	10,1	7,62	10,1	50	142-XX-308-00-591000	142-XX-308-00-592000	142-XX-308-00-593000	142-XX-308-00-594000		
14	17,7	7,62	10,1	29	142-XX-314-00-591000	142-XX-314-00-592000	142-XX-314-00-593000	142-XX-314-00-594000		
16	20,3	7,62	10,1	25	142-XX-316-00-591000	142-XX-316-00-592000	142-XX-316-00-593000	142-XX-316-00-594000		
18	22,8	7,62	10,1	22	142-XX-318-00-591000	142-XX-318-00-592000	142-XX-318-00-593000	142-XX-318-00-594000		
20	25,3	7,62	10,1	40	142-XX-320-00-591000	142-XX-320-00-592000	142-XX-320-00-593000	142-XX-320-00-594000		
24	30,4	7,62	10,1	17	142-XX-324-00-591000	142-XX-324-00-592000	142-XX-324-00-593000	142-XX-324-00-594000		
22	27,8	10,16	12,7	14	142-XX-422-00-591000	142-XX-422-00-592000	142-XX-422-00-593000	142-XX-422-00-594000		
24	30,4	15,24	17,7	16	142-XX-624-00-591000	142-XX-624-00-592000	142-XX-624-00-593000	142-XX-624-00-594000		
28	35,5	15,24	17,7	14	142-XX-628-00-591000	142-XX-628-00-592000	142-XX-628-00-593000	142-XX-628-00-594000		
32	40,6	15,24	17,7	12	142-XX-632-00-591000	142-XX-632-00-592000	142-XX-632-00-593000	142-XX-632-00-594000		
40	50,8	15,24	17,7	10	142-XX-640-00-591000	142-XX-640-00-592000	142-XX-640-00-593000	142-XX-640-00-594000		
XX=Plating Code See to Right					SPECIFY PLATING CODE XX =		10 ◆	90	40 ◆	
					Pin Plating 		0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

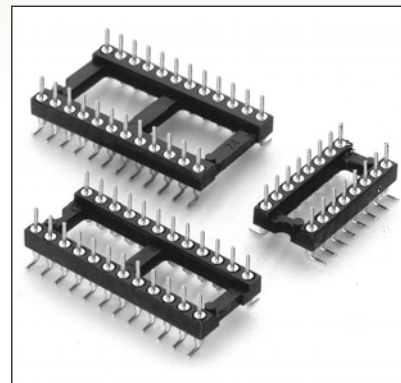
DUAL-IN-LINE HEADERS

SERIES 150 • SURFACE MOUNT, GULL WING • OPEN FRAME

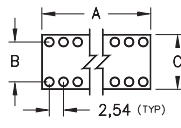


See page 130 for Insulator Details

- Surface mount Gull Wing DIP headers for adapters and board stacking on 2,54 lead spacing
- Gull wing terminals provide maximum strength and permit easy visual inspection of solder joints
- Series 150 uses MM #3404 pins. See page 212 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



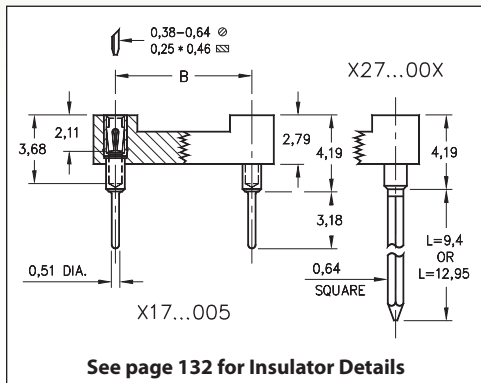
ORDERING INFORMATION

Total number of pins				Quantity per tube					
	A	B	C						
10	12,6	5,08	7,6	40	150-10-210-00-106000				
4	5,0	7,62	10,1	102	150-10-304-00-106000				
6	7,6	7,62	10,1	67	150-10-306-00-106000				
8	10,1	7,62	10,1	50	150-10-308-00-106000				
10	12,6	7,62	10,1	40	150-10-310-00-106000				
14	17,7	7,62	10,1	29	150-10-314-00-106000				
16	20,3	7,62	10,1	25	150-10-316-00-106000				
18	22,8	7,62	10,1	22	150-10-318-00-106000				
20	25,3	7,62	10,1	20	150-10-320-00-106000				
22	27,8	7,62	10,1	18	150-10-322-00-106000				
24	30,4	7,62	10,1	16	150-10-324-00-106000				
28	35,5	7,62	10,1	14	150-10-328-00-106000				
20	25,4	10,16	12,7	20	150-10-420-00-106000				
22	27,8	10,16	12,7	18	150-10-422-00-106000				
24	30,4	10,16	12,7	16	150-10-424-00-106000				
28	35,5	10,16	12,7	14	150-10-428-00-106000				
32	40,6	10,16	12,7	12	150-10-432-00-106000				
24	30,4	15,24	17,7	16	150-10-624-00-106000				
28	35,5	15,24	17,7	14	150-10-628-00-106000				
32	40,6	15,24	17,7	12	150-10-632-00-106000				
36	45,7	15,24	17,7	11	150-10-636-00-106000				
40	50,8	15,24	17,7	10	150-10-640-00-106000				
42	53,3	15,24	17,7	9	150-10-642-00-106000				
48	60,9	15,24	17,7	8	150-10-648-00-106000				
50	63,5	15,24	17,7	8	150-10-650-00-106000				
52	66,0	15,24	17,7	7	150-10-652-00-106000				
50	63,5	22,86	25,3	8	150-10-950-00-106000				
52	66,0	22,86	25,3	7	150-10-952-00-106000				
64	81,2	22,86	25,3	6	150-10-964-00-106000				
See page 264 for coplanarity information					XX=Plating Code See Below 				
					SPECIFY PLATING CODE XX = 10 ◆ 0,25µm Au				

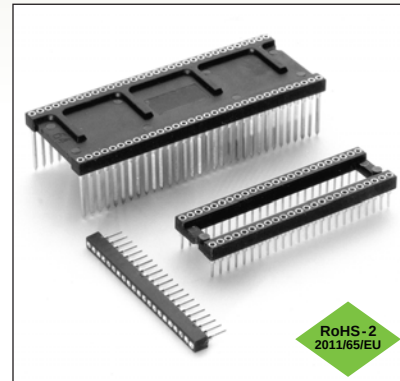


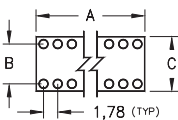
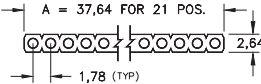
DUAL-IN-LINE SOCKETS

SERIES 117, 127, 217, 227, 317, 327 • SHRINK DIP, SOLDER TAIL & WRAPOST



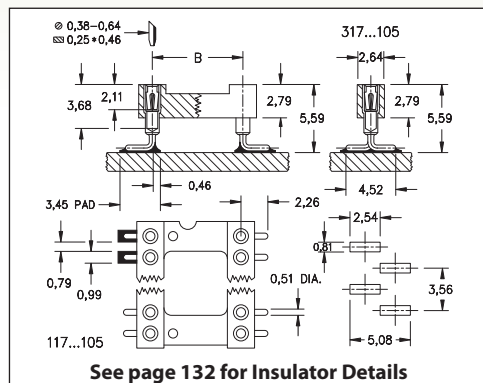
- High density DIP sockets and strips for devices featuring 1,78 lead spacing
- Solder tails use MM #1802 receptacles, See page 169 for details. Wraposts use MM #1702-2 or 1703-3 receptacles, See page 198 for details
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



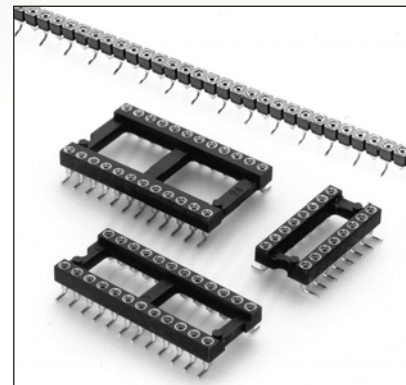
Total number of pins				Quantity per tube	ORDERING INFORMATION								
	A	B	C		Solder Tail	L = 9,4 (2 Level Wrapost)	L = 12,95 (3 Level Wrapost)						
					OPEN FRAME DIP SOCKET								
16	14,53	7,62	9,91	35	117-XX-316-41-005000	127-XX-316-41-002000	127-XX-316-41-003000						
28	25,2	10,16	12,45	20	117-XX-428-41-005000	127-XX-428-41-002000	127-XX-428-41-003000						
30	26,97	10,16	12,45	18	117-XX-430-41-005000	127-XX-430-41-002000	127-XX-430-41-003000						
48	42,98	10,16	12,45	12	117-XX-448-41-005000	127-XX-448-41-002000	127-XX-448-41-003000						
20	18,08	15,24	17,53	28	117-XX-620-41-005000	127-XX-620-41-002000	127-XX-620-41-003000						
28	25,2	15,24	17,53	20	117-XX-628-41-005000	127-XX-628-41-002000	127-XX-628-41-003000						
40	35,86	15,24	17,53	14	117-XX-640-41-005000	127-XX-640-41-002000	127-XX-640-41-003000						
42	37,64	15,24	17,53	13	117-XX-642-41-005000	127-XX-642-41-002000	127-XX-642-41-003000						
48	42,98	15,24	17,53	11	117-XX-648-41-005000	127-XX-648-41-002000	127-XX-648-41-003000						
52	46,53	15,24	17,53	11	117-XX-652-41-005000	127-XX-652-41-002000	127-XX-652-41-003000						
56	50,1	15,24	17,53	10	117-XX-656-41-005000	127-XX-656-41-002000	127-XX-656-41-003000						
64	57,2	15,24	17,53	8	117-XX-664-41-005000	127-XX-664-41-002000	127-XX-664-41-003000						
68	60,76	15,24	17,53	8	117-XX-668-41-005000	127-XX-668-41-002000	127-XX-668-41-003000						
64	57,2	19,05	21,34	8	117-XX-764-41-005000	127-XX-764-41-002000	127-XX-764-41-003000						
					CLOSED FRAME DIP SOCKET								
64	57,2	19,05	21,34	8	217-XX-764-41-005000	227-XX-764-41-002000	227-XX-764-41-003000						
					SINGLE ROW STRIP SOCKET								
					If desired, we will supply any length up to 21 pins.								
21	37,64	---	2,64	-	317-XX-121-41-005000	327-XX-121-41-002000	327-XX-121-41-003000						
XX=Plating Code See to Right					SPECIFY PLATING CODE XX=			91	93		41 	43 	
					Sleeve (Pin) 		5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn		
					Contact (Clip) 		0,25µm Au	0,76µm Au		0,25µm Au	0,76µm Au		

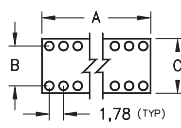
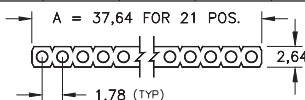
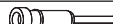
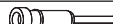
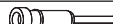
DUAL-IN-LINE SOCKETS

SERIES 117, 317 • GULL WING SHRINK DIP SOCKETS & STRIPS, SMT SOLDER TAIL



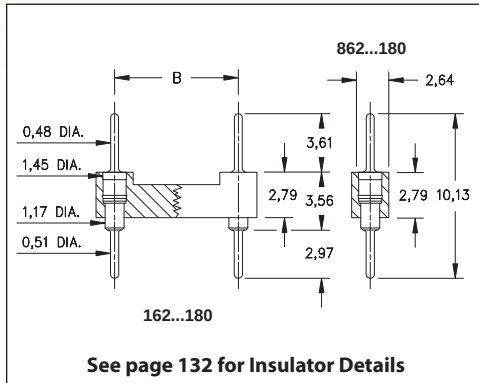
- Surface mount Gull Wing DIP & strip sockets for devices featuring 1,78 lead spacing
- Gull wing terminals provide maximum strength and permit easy visual inspection of solder joints
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 117 and 317 use MM #1802 pins. See page 169 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



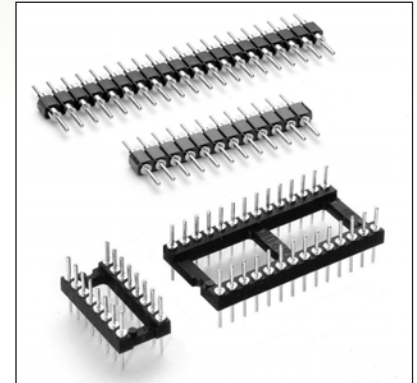
Total number of pins				Quantity per tube																						
	A	B	C																							
16	14,53	7,62	9,91	35	117-XX-316-41-105000																					
28	25,20	10,16	12,45	20	117-XX-428-41-105000																					
30	26,97	10,16	12,45	18	117-XX-430-41-105000																					
48	42,98	10,16	12,45	12	117-XX-448-41-105000																					
20	18,08	15,24	17,53	28	117-XX-620-41-105000																					
28	25,20	15,24	17,53	20	117-XX-628-41-105000																					
40	35,86	15,24	17,53	14	117-XX-640-41-105000																					
42	37,64	15,24	17,53	13	117-XX-642-41-105000																					
48	42,98	15,24	17,53	12	117-XX-648-41-105000																					
52	46,53	15,24	17,53	11	117-XX-652-41-105000																					
56	50,09	15,24	17,53	10	117-XX-656-41-105000																					
64	57,20	15,24	17,53	9	117-XX-664-41-105000																					
68	60,76	15,24	17,53	8	117-XX-668-41-105000																					
64	57,20	19,05	21,34	8	117-XX-764-41-105000																					
XX=Plating Code See Below					RoHS - 2 2011/65/EU																					
					SINGLE ROW STRIP SOCKET If desired, we will supply any length up to 21 pins.																					
21	37,64	---	2,64	-	317-XX-121-41-105000																					
See page 264 for coplanarity information					<table><tr><td>SPECIFY PLATING CODE XX=</td><td>91</td><td></td><td></td><td>41</td><td>43</td><td></td></tr><tr><td>Sleeve (Pin) </td><td>5,08µm Sn/Pb</td><td></td><td></td><td>5,08µm Sn</td><td>5,08µm Sn</td><td></td></tr><tr><td>Contact (Clip) </td><td>0,25µm Au</td><td></td><td></td><td>0,25µm Au</td><td>0,76µm Au</td><td></td></tr></table>	SPECIFY PLATING CODE XX=	91			41	43		Sleeve (Pin) 	5,08µm Sn/Pb			5,08µm Sn	5,08µm Sn		Contact (Clip) 	0,25µm Au			0,25µm Au	0,76µm Au	
SPECIFY PLATING CODE XX=	91			41	43																					
Sleeve (Pin) 	5,08µm Sn/Pb			5,08µm Sn	5,08µm Sn																					
Contact (Clip) 	0,25µm Au			0,25µm Au	0,76µm Au																					

DUAL-IN-LINE HEADERS

SERIES 162, 862 • SHRINK DIP HEADER AND STRIPS, SOLDER TAIL



- High density DIP headers & strips for adapters and board stacking applications with 1,78 lead spacing
- Series 162 DIP headers and Series 862 strip headers use MM #6218 pins. See page 208 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins				Quantity per tube	ORDERING INFORMATION				
	A	B	C						
16	14,53	7,62	9,91	35	162-XX-316-00-180000				
28	25,20	10,16	12,45	20	162-XX-428-00-180000				
30	26,97	10,16	12,45	18	162-XX-430-00-180000				
48	42,98	10,16	12,45	12	162-XX-448-00-180000				
20	18,08	15,24	17,53	28	162-XX-620-00-180000				
28	25,20	15,24	17,53	20	162-XX-628-00-180000				
40	35,86	15,24	17,53	14	162-XX-640-00-180000				
42	37,64	15,24	17,53	13	162-XX-642-00-180000				
48	42,98	15,24	17,53	12	162-XX-648-00-180000				
52	46,53	15,24	17,53	11	162-XX-652-00-180000				
56	50,09	15,24	17,53	10	162-XX-656-00-180000				
64	57,20	15,24	17,53	9	162-XX-664-00-180000				
68	60,76	15,24	17,53	8	162-XX-668-00-180000				
64	57,20	19,05	21,34	8	162-XX-764-00-180000				
					SINGLE ROW STRIP HEADER If desired, we will supply any length up to 21 pins.				
21	37,64	---	2,64	---	862-XX-121-00-180000				
SPECIFY PLATING CODE XX =					10 ◆	90	40 ◆		
Pin Plating					0,25µm Au	5,08µm Sn/Pb	5,08µm Sn		

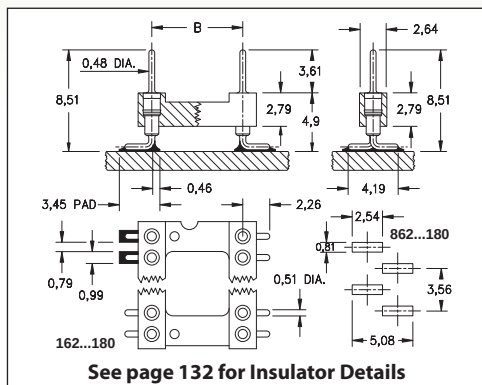
XX=Plating Code
See Below

RoHS-2
2011/65/EU

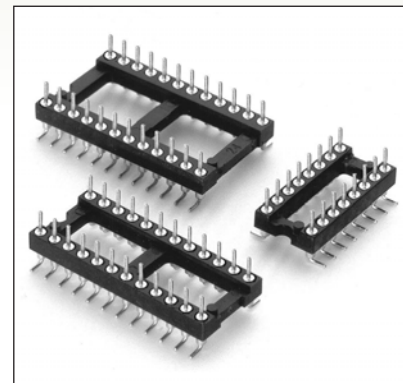


DUAL-IN-LINE HEADERS

SERIES 162, 862 • GULL WING SHRINK DIP HEADERS & STRIPS, SMT SOLDER TAIL



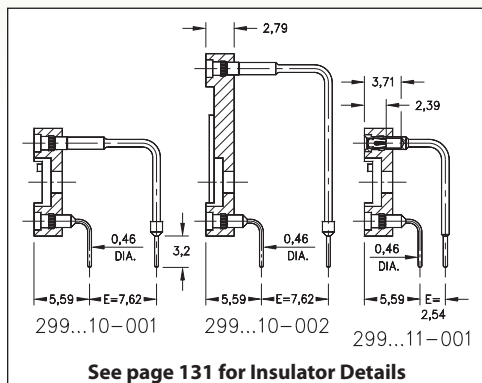
- Surface mount Gull Wing DIP headers & strips for adapters and board stacking applications with 1,78 lead spacing
- Gull wing terminals provide maximum strength and permit easy visual inspection of solder joints
- Series 162 and Series 862 use MM #6218 pins. See page 208 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



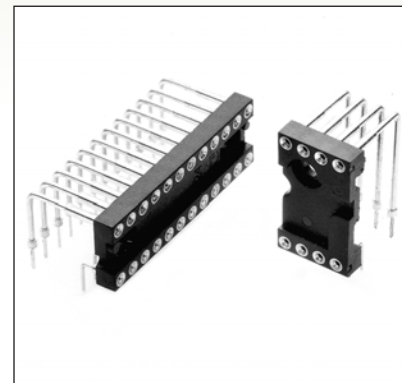
Total number of pins				Quantity per tube	ORDERING INFORMATION				
	A	B	C						
16	14,53	7,62	9,91	35	162-10-316-30-180000				
28	25,20	10,16	12,45	20	162-10-428-30-180000				
30	26,97	10,16	12,45	18	162-10-430-30-180000				
48	42,98	10,16	12,45	12	162-10-448-30-180000				
20	18,08	15,24	17,53	28	162-10-620-30-180000				
28	25,20	15,24	17,53	20	162-10-628-30-180000				
40	35,86	15,24	17,53	14	162-10-640-30-180000				
42	37,64	15,24	17,53	13	162-10-642-30-180000				
48	42,98	15,24	17,53	12	162-10-648-30-180000				
52	46,53	15,24	17,53	11	162-10-652-30-180000				
56	50,09	15,24	17,53	10	162-10-656-30-180000				
64	57,20	15,24	17,53	9	162-10-664-30-180000				
68	60,76	15,24	17,53	8	162-10-668-30-180000				
64	57,20	19,05	21,34	8	162-10-764-30-180000				
					XX=Plating Code See Below RoHS-2 2011/65/EU				
					SINGLE ROW STRIP SOCKET If desired, we will supply any length up to 21 pins.				
21	37,64	---	2,64	---	862-10-121-30-180000				
See page 264 for coplanarity information					SPECIFY PLATING CODE XX =		10 ◆		
					Pin Plating		0,25µm Au		

DUAL-IN-LINE SOCKETS

SERIES 299 • RIGHT ANGLE MOUNT • CLOSED FRAME

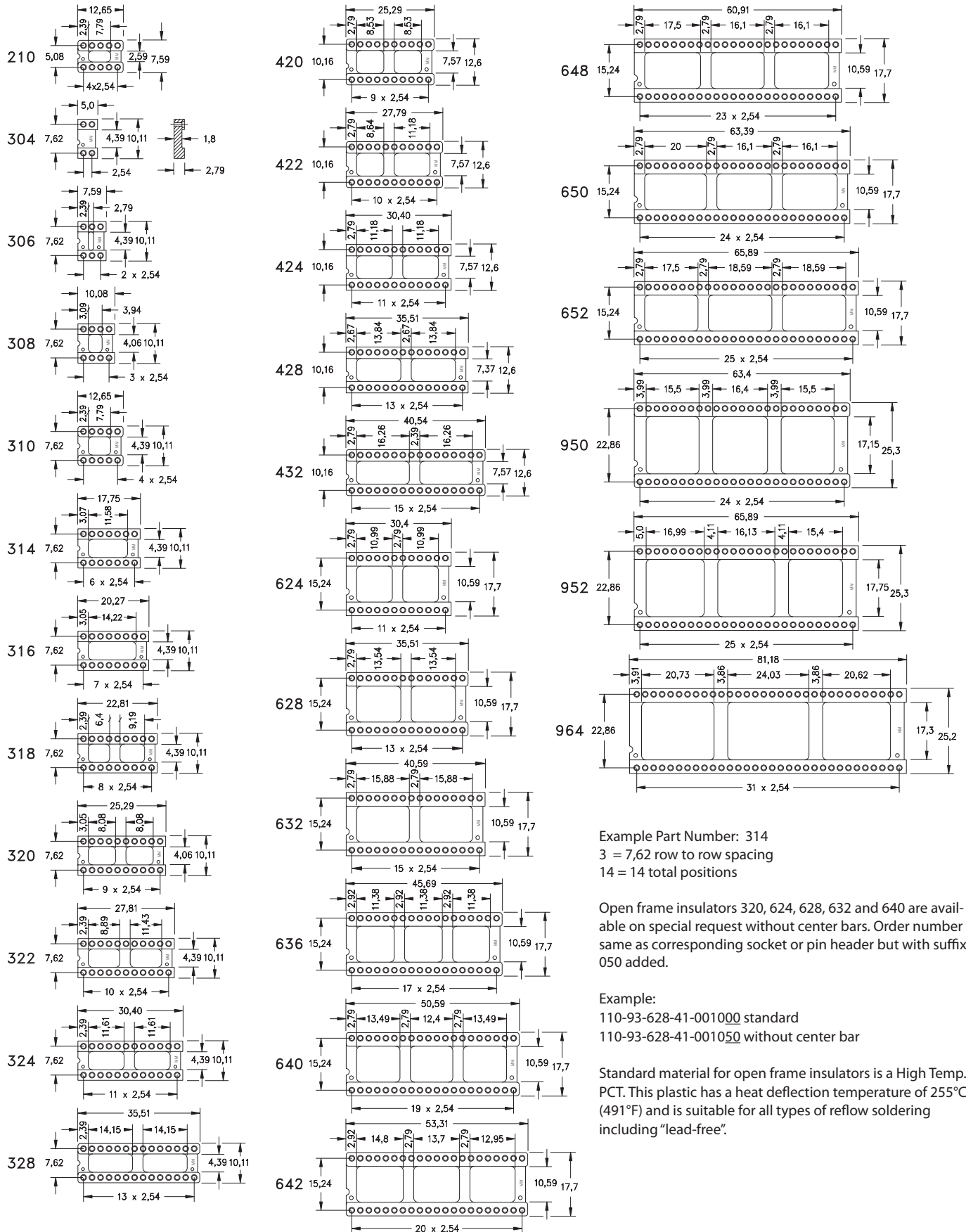


- Ideal for mounting components, such as LED displays, where the face must be parallel to the PCB surface
- Sockets have solder tail termination and are available with either 7,62 (standard) or 2,54 row spacing
- Series 299 uses MM #1103/0903, #1103/1610 or #1103/0904 pins. See pages 166 & 167 for details
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins				Quantity per tube	ORDERING INFORMATION				
	A	B	C		E = 7,62	E = 2,54			
6	7,6	7,62	10,1	33	299-XX-306-10-001000	299-XX-306-11-001000	RoHS - 2 2011/65/EU XX=Plating Code See Below		
8	10,1	7,62	10,1		299-XX-308-10-001000	299-XX-308-11-001000			
10	12,6	7,62	10,1		299-XX-310-10-001000	299-XX-310-11-001000			
12	15,2	7,62	10,1		299-XX-312-10-001000	299-XX-312-11-001000			
14	17,7	7,62	10,1	29	299-XX-314-10-001000	299-XX-314-11-001000			
16	20,3	7,62	10,1	25	299-XX-316-10-001000	299-XX-316-11-001000			
18	22,8	7,62	10,1	22	299-XX-318-10-001000	299-XX-318-11-001000			
20	25,3	7,62	10,1	20	299-XX-320-10-001000	299-XX-320-11-001000			
24	30,4	7,62	10,1	16	299-XX-324-10-001000	299-XX-324-11-001000			
8	10,1	15,24	17,7	50	299-XX-608-10-002000				
10	12,6	15,24	17,7	40	299-XX-610-10-002000				
12	15,2	15,24	17,7	34	299-XX-612-10-002000				
14	17,7	15,24	17,7	28	299-XX-614-10-002000				
16	20,3	15,24	17,7	25	299-XX-616-10-002000				
18	22,8	15,24	17,7	22	299-XX-618-10-002000				
20	25,3	15,24	17,7	20	299-XX-620-10-002000				
22	27,8	15,24	17,7	18	299-XX-622-10-002000				
24	30,4	15,24	17,7	16	299-XX-624-10-002000				
26	33,0	15,24	17,7	15	299-XX-626-10-002000				
28	35,5	15,24	17,7	14	299-XX-628-10-002000				
30	38,1	15,24	17,7	13	299-XX-630-10-002000				
32	40,6	15,24	17,7	12	299-XX-632-10-002000				
36	45,7	15,24	17,7	11	299-XX-636-10-002000				
40	50,8	15,24	17,7	10	299-XX-640-10-002000				
SPECIFY PLATING CODE XX =						93		43	
Sleeve (Pin)						5,08µm Sn/Pb		5,08µm Sn	
Contact (Clip)						0,76µm Au		0,76µm Au	

DUAL-IN-LINE INSULATORS STANDARD OPEN FRAME



Example Part Number: 314

3 = 7,62 row to row spacing

14 = 14 total positions

Open frame insulators 320, 624, 628, 632 and 640 are available on special request without center bars. Order number same as corresponding socket or pin header but with suffix 050 added.

Example:

110-93-628-41-001000 standard

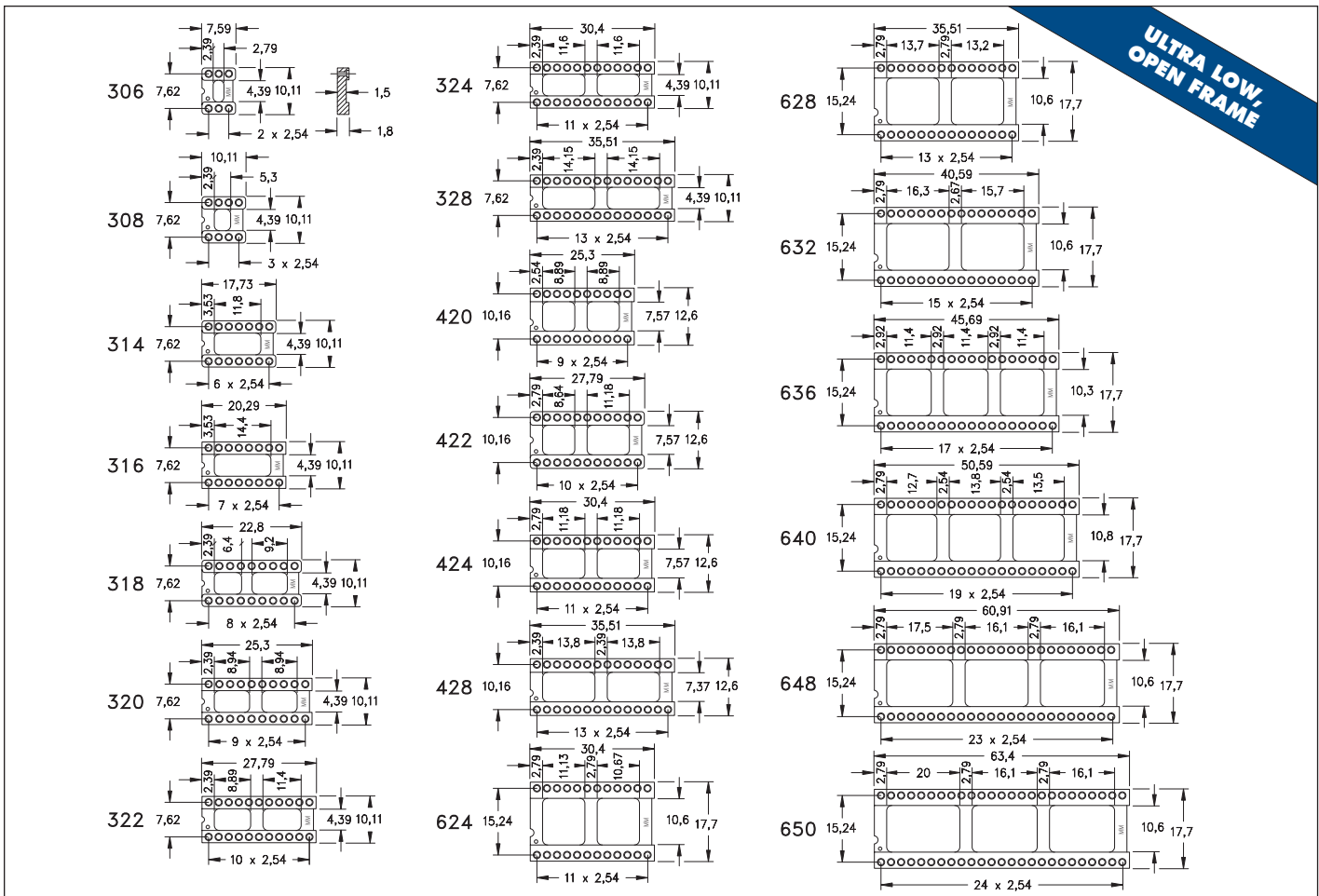
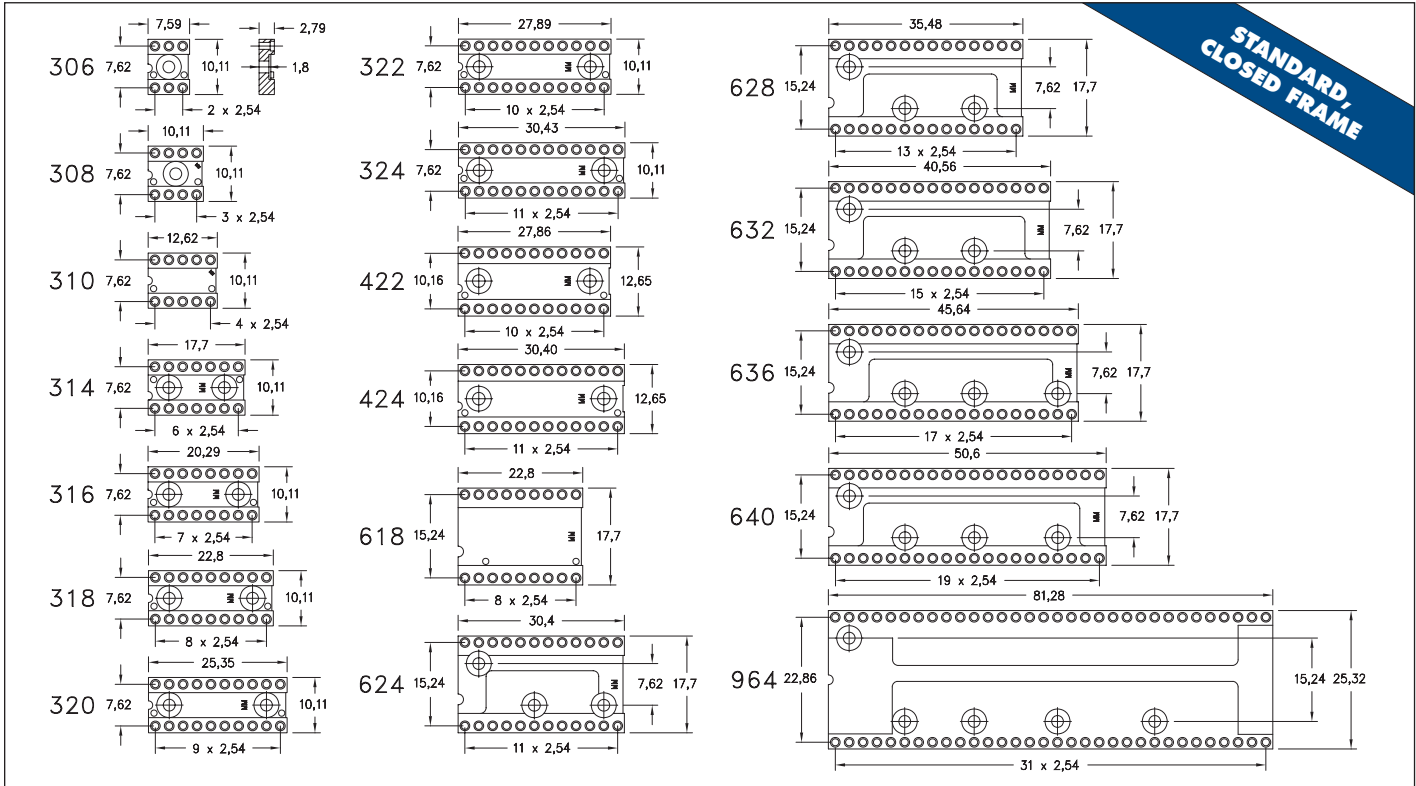
110-93-628-41-001050 without center bar

Standard material for open frame insulators is a High Temp. PCT. This plastic has a heat deflection temperature of 255°C (491°F) and is suitable for all types of reflow soldering including "lead-free".



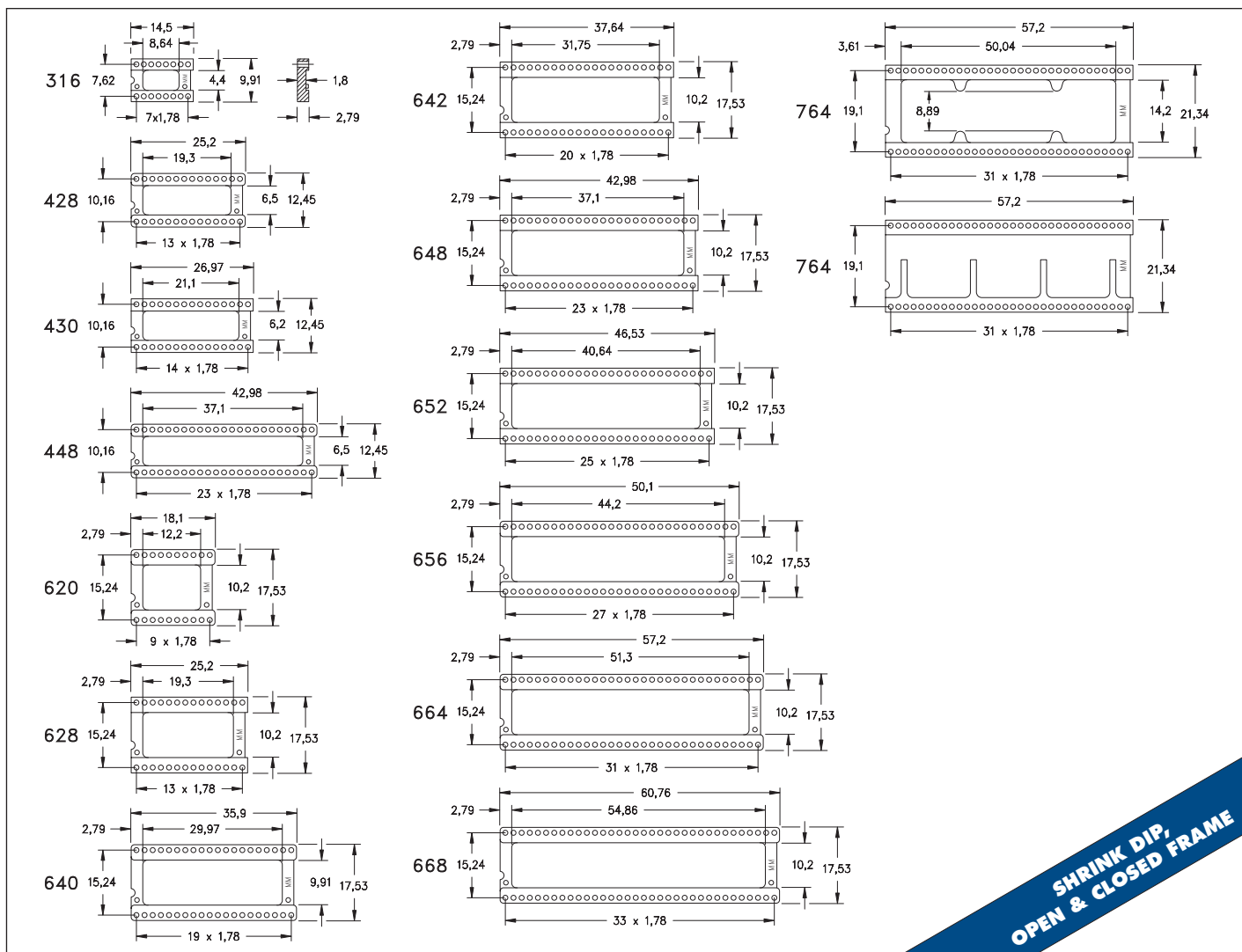
DUAL-IN-LINE INSULATORS

STANDARD, CLOSED FRAME • ULTRA LOW PROFILE, OPEN FRAME

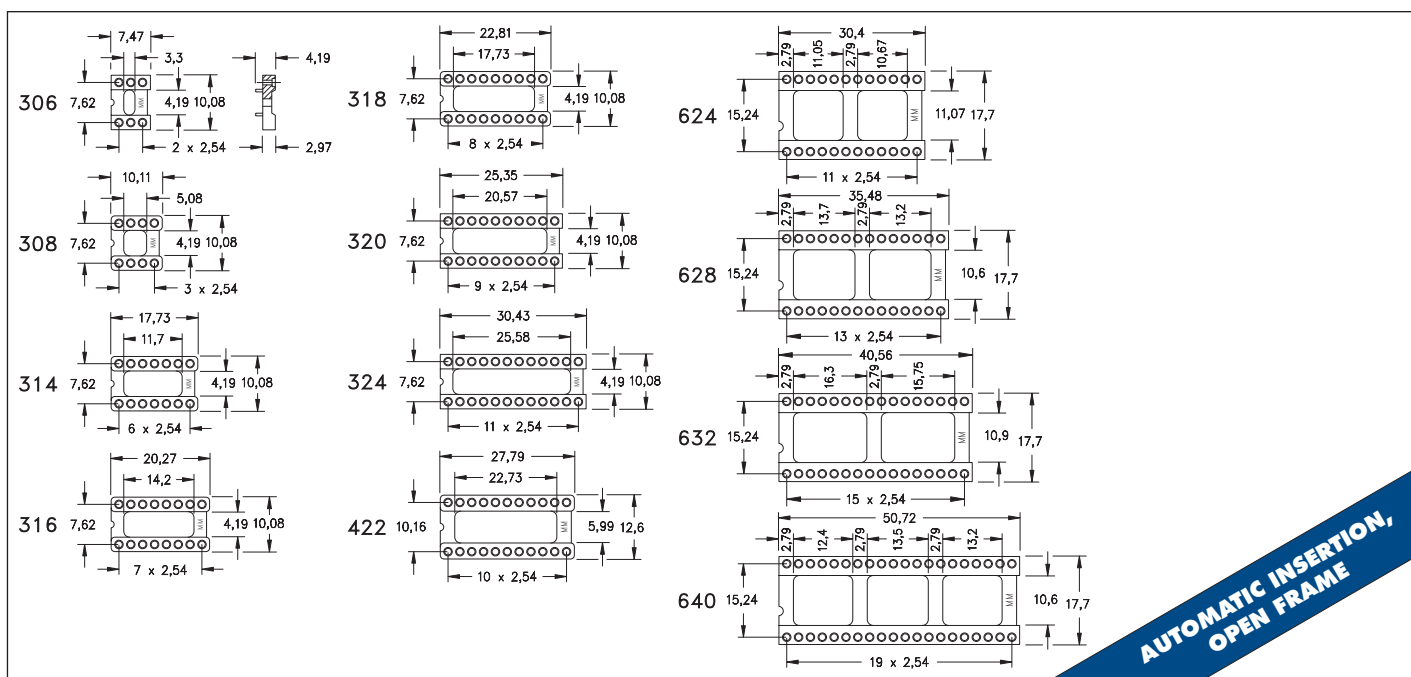


DUAL-IN-LINE INSULATORS

SHRINK DIP, OPEN & CLOSED FRAME • AUTOMATIC INSERTION, OPEN FRAME



SHRINK DIP,
OPEN & CLOSED FRAME



AUTOMATIC INSERTION,
OPEN FRAME



DUAL-IN-LINE SOCKETS

SERIES 110, 410 • RELAY AND ZIG-ZAG SOCKETS

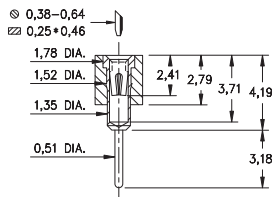


Fig. 1

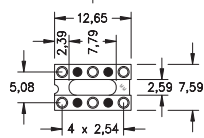


Fig. 2

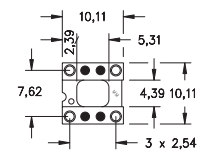


Fig. 3

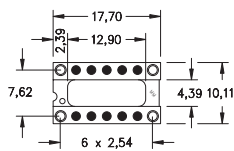
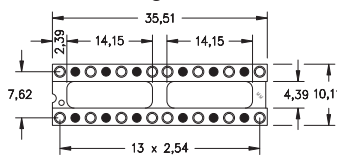
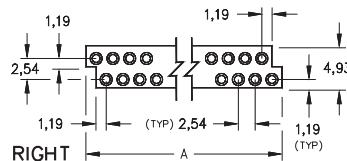
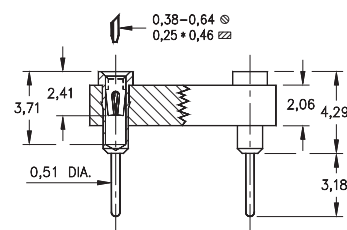
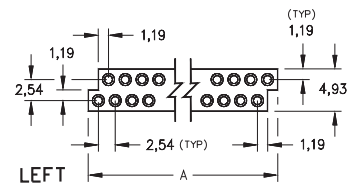


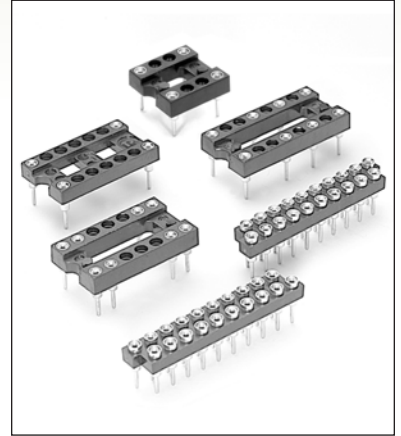
Fig. 4



○ = Loaded Position ● = Empty Position



- Relay sockets accept devices with I/O pins on 2,54 grid
- Additional Relay DIP socket patterns are available on Page 135
- Zig-Zag strip sockets are suitable for IC's and memory chips with staggered double row patterns
- Series 110 and 410 use MM #1001 receptacles. See page 165 for details
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Selectively Loaded Sockets For Dual-In-Line Relays

	Number of Pins	Ordering Information
FIG. 1	6	110-XX-210-10-001000
FIG. 2	4	110-XX-308-10-001000
FIG. 3	4	110-XX-314-10-001000
FIG. 4	16	110-XX-328-10-001000

Staggered (Zig-Zag) Strip Sockets

Dim 'A'	Number of Pins	Insulator Body	Ordering Information
18,97	14	Left, Stackable	410-XX-214-10-001000
18,97	14	Right, Stackable	410-XX-214-10-002000
21,51	16	Left, Stackable	410-XX-216-10-001000
21,51	16	Right, Stackable	410-XX-216-10-002000
26,59	20	Left, Stackable	410-XX-220-10-001000
26,59	20	Right, Stackable	410-XX-220-10-002000
31,67	24	Left, Stackable	410-XX-224-10-001000
31,67	24	Right, Stackable	410-XX-224-10-002000
36,75	28	Left, Stackable	410-XX-228-10-001000
36,75	28	Right, Stackable	410-XX-228-10-002000

XX=Plating Code
See Below

RoHS-2
2011/65/EU

SPECIFY PLATING CODE XX=	13	93	43
Sleeve (Pin)	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn
Contact (Clip)	0,76µm Au	0,76µm Au	0,76µm Au



Mill-Max Mfg. Corp. • 190 Pine Hollow Road, P.O. Box 300, Oyster Bay, NY 11771 • 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com

DUAL-IN-LINE SOCKETS

SERIES 110 • SELECTIVELY LOADED RELAY DIP SOCKET, SOLDER TAIL

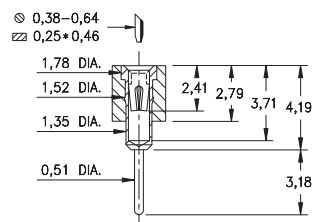


Fig. 1

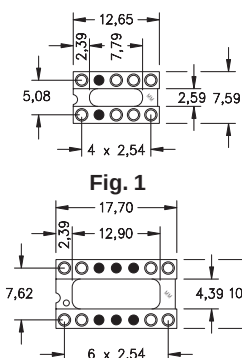


Fig. 2

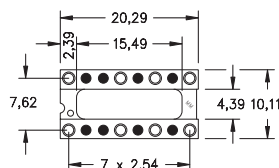


Fig. 3

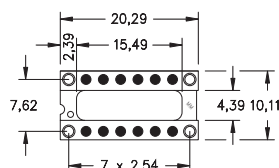


Fig. 4

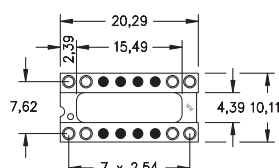


Fig. 5

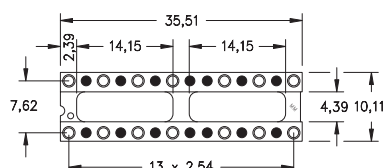


Fig. 6

○ = Loaded Position ● = Empty Position

- Relay sockets accept devices with I/O pins on 2,54 grid
- Additional Relay DIP socket patterns are available on Page 134
- Series 110 use MM #1001 receptacles. See page 165 for details
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

FIG. 1	Series 110...002	8 Position Relay Socket
	110-XX-210-10-002000	
FIG. 2	Series 110...002	8 Position Relay Socket
	110-XX-314-10-002000	
FIG. 3	Series 110...003	8 Position Relay Socket
	110-XX-316-10-003000	
FIG. 4	Series 110...004	4 Position Relay Socket
	110-XX-316-10-004000	
FIG. 5	Series 110...005	8 Position Relay Socket
	110-XX-316-10-005000	
FIG. 6	Series 110...002	14 Position Relay Socket
	110-XX-328-10-002000	

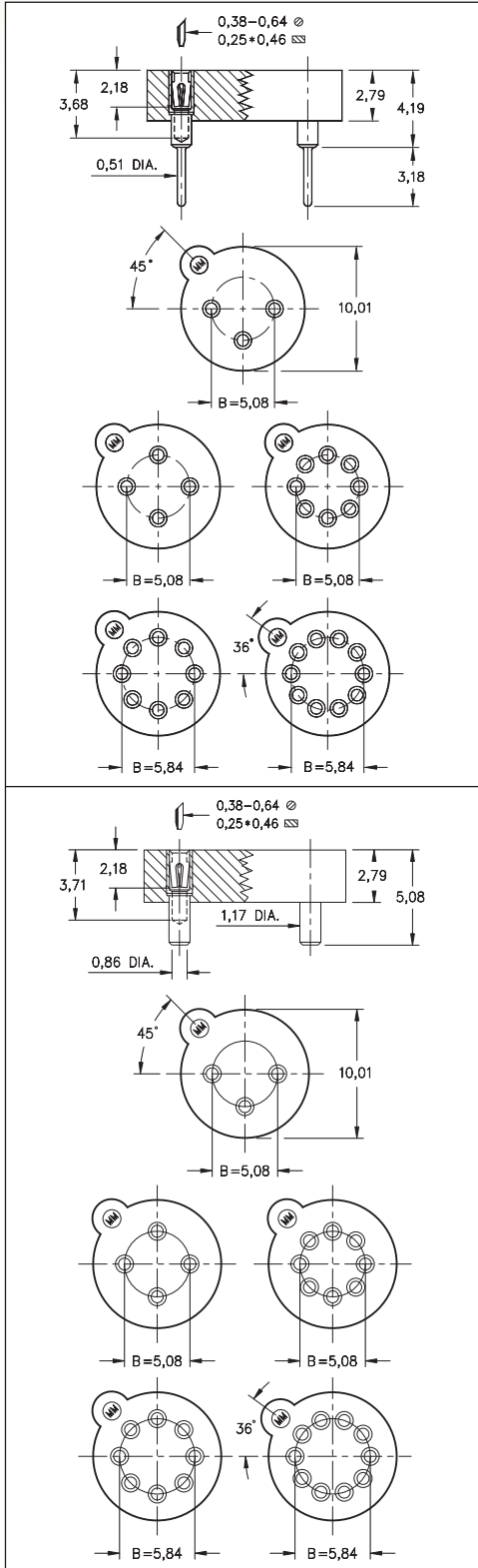
XX=Plating Code
See Below

RoHS - 2
2011/65/EU

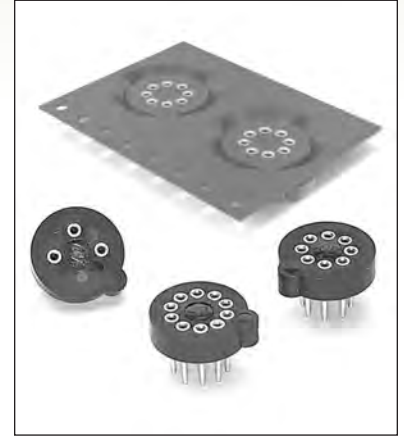
SPECIFY PLATING CODE XX=	13		93			43	
Sleeve (Pin)	0,25µm Au		5,08µm Sn/Pb			5,08µm Sn	
Contact (Clip)	0,76µm Au		0,76µm Au			0,76µm Au	

TRANSISTOR SOCKETS

SERIES 917 • SURFACE AND THROUGH-HOLE MOUNT



- Series 917 TO package sockets are available in 3, 4, 8 and 10 positions
- Two 8 pin versions feature pin centers on 5,08 or 5,84 circle
- Series 917...005 use MM #1705 and MM #1802 pins, see pages 168 and 169 for details. Receptacles use Hi-Rel, 4 finger #30 contact rated at 3 amps. See page 253 for details
- Series 917...001 uses MM #1701 pins. See page 171 for details. Receptacles use Hi-Rel, 4 finger #30 contact rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Transistor Sockets (Through-Hole Mount)

Type	Circle Dia.	Number of Pins	Ordering Information
TO-5	5,08	3	917-XX-103-41-005000
TO-5	5,08	4	917-XX-104-41-005000
TO-5	5,08	8	917-XX-108-41-005000
TO-100	5,84	8	917-XX-208-41-005000
TO-100	5,84	10	917-XX-210-41-005000

Transistor Sockets (Surface Mount)

Type	Circle Dia.	Number of Pins	Ordering Information
TO-5	5,08	3	917-XX-103-41-001000
TO-5	5,08	4	917-XX-104-41-001000
TO-5	5,08	8	917-XX-108-41-001000
TO-100	5,84	8	917-XX-208-41-001000
TO-100	5,84	10	917-XX-210-41-001000

Tape and Reel Packaging: (Surface Mount ONLY)

Ordering Information: 917-XX-XXX-41-001799

Available on 24mm wide tape, 730 parts per 330mm reel

XX=Plating Code
See Below

RoHS-2
2011/65/EU

SPECIFY PLATING CODE XX=	91	93	41	43
Sleeve (Pin)	5,08μm Sn/Pb	5,08μm Sn/Pb	5,08μm Sn	5,08μm Sn
Contact (Clip)	0,25μm Au	0,76μm Au	0,25μm Au	0,76μm Au



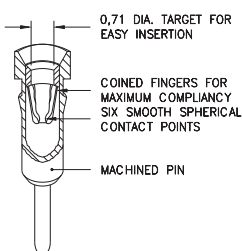
PIN GRID ARRAY SOCKETS

TECHNICAL SPECIFICATIONS

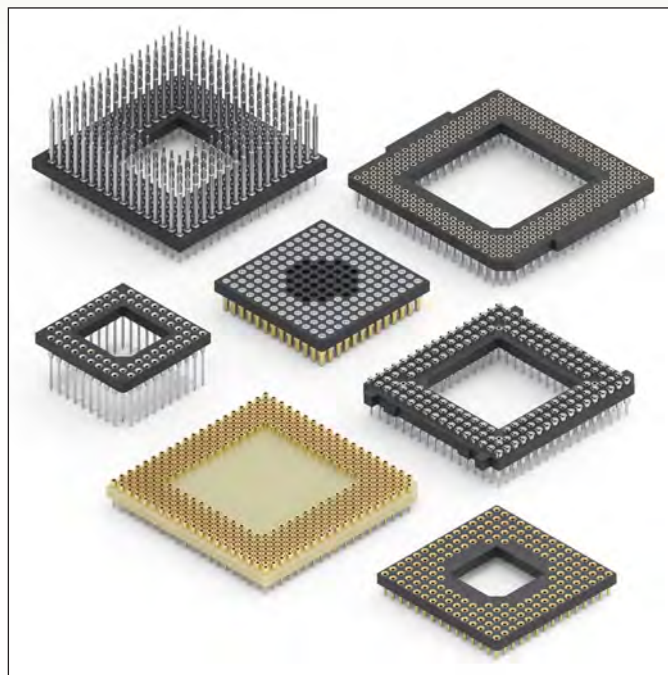
Pin grid array sockets are designed to accept high pin count IC's. They use low force 6-finger contacts to ease insertion / extraction of the device. Standard low force (MM #32) contact is used for pin counts up to 150, ultra-low force (MM #35) contact is recommended for 150 pins or more but less than 250 pins. The "ultra lite" (MM #43) is recommended for 250 pins or more.

PGA sockets all have precision-machined pins. This offers the lowest possible profile. The closed bottom design also eliminates flux and solder contamination, and the pins are in-line with contact entry.

CONTACT DETAIL



Insulator bodies are molded from high temperature PCT polyester suitable for all forms of soldering including wave, infra-red reflow and vapor phase.



TECHNICAL SPECIFICATIONS

Materials

Insulator body:

- High temperature glass-filled thermoplastic polyester (PCT)
- Heat deflection temperature (HDT @ 264 PSI) = 255°C (490°F)
- Self-extinguishing, rated UL94V-0

Receptacle (Sleeve):

- Screw machined brass (ASTM-B16-00), plated 0,25µm gold, 5,08µm tin or 5,08µm tin-lead (SnPb 90/10) over 2,54µm nickel.

Pin:

- Screw machined brass (ASTM-B16-00), plated 0,25µm gold, 5,08µm tin or 5,08µm tin-lead (SnPb 90/10) over 2,54µm nickel.

Contact (clip):

- Stamped beryllium-copper (ASTM-B194-01), plated 0,25µm or 0,76µm gold over 1,27µm nickel.

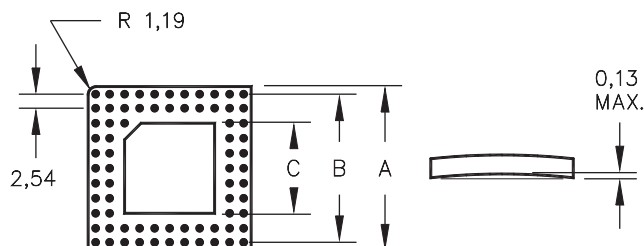
Mechanical Data

- Insertion characteristics:
 - Measured with a polished steel gauge 0,46 diameter
 - Low force MM#32 (01 suffix) typical insertion force 50 grams
typical extraction force 30 grams
 - Ultra-low force MM#35 (02 suffix) typical insertion force 25 grams
typical extraction force 15 grams
 - "Ultra lite" MM#43 (03 suffix) typical insertion force 12.5 grams
typical extraction force 7.5 grams
- Mechanical life: 100 cycles min.

Electrical & Environmental Data

- See general specifications on page 264.

DIMENSIONS OF PGA SOCKET INSULATORS



DIMENSIONS A, B, and C can be calculated as follows:

N1 = GRID SIZE (# of pins per side, outer most row only for interstitial patterns)

N2 = WINDOW SIZE

A = N1 X 2,54

B = (N1-1) X 2,54

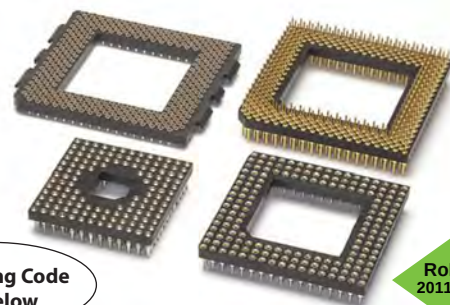
C = (N2 X 2,54) - 0,41



PIN GRID ARRAY SOCKETS

SERIES 510, 511, 514, 515, 522, 523 • 2,54 AND INTERSTITIAL GRID • SURFACE MOUNT, THROUGH-HOLE AND WIREWRAP

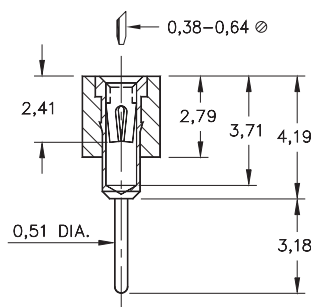
- Series 510, 511, 514, 515, 522 and 523 PGA sockets are available on 2,54 centers
- Series 513 and 518 PGA sockets are available for Interstitial patterns
- Choice of three low force clips to cover all applications
- High temperature PCT polyester insulator material suitable for all forms of soldering including lead-free
- For Electrical, Mechanical and Environmental Data, see page 137 for details



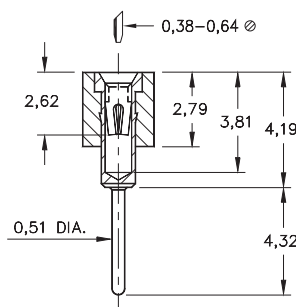
**XX=Plating Code
See Below**

**RoHS-2
2011/65/EU**

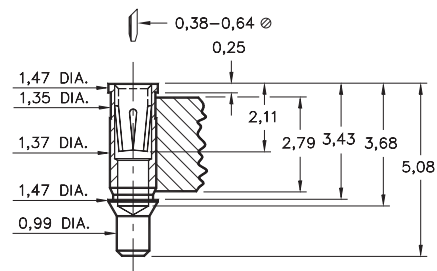
SERIES 510 (Standard Solder Tail)



SERIES 511 (Long Solder Tail)

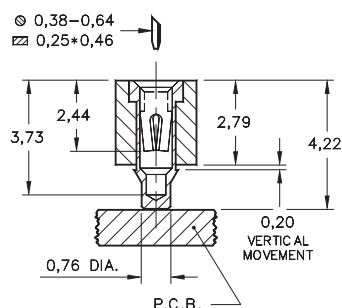


SERIES 513 (SMT Receptacle)

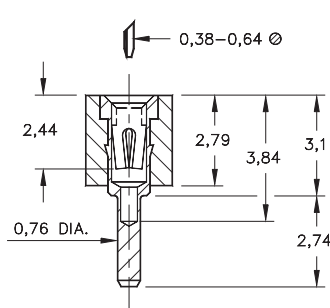


Interstitial Patterns Only

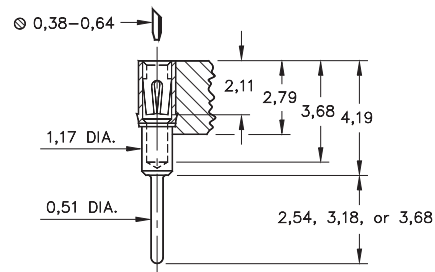
SERIES 514 (SMT Receptacle)



SERIES 515 (Low Profile Solder Tail)

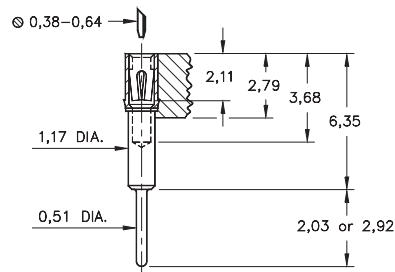


SERIES 518 (Solder Tail No, Heatsink Tabs)



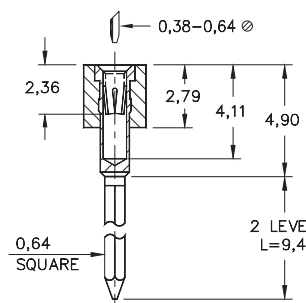
Interstitial Patterns Only

SERIES 518 (Solder Tail w/ Heatsink Tabs)

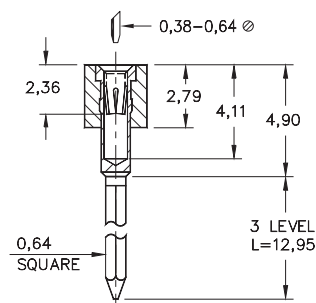


Interstitial Patterns Only

SERIES 522 (2 Level Wrapost)



SERIES 523 (3 Level Wrapost)



Visit www.mill-max.com/pgs
to configure a formal part number

SPECIFY PLATING CODE XX=

Sleeve (Pin)



Contact (Clip)



13

91

93

99

43

0,25µm Au

5,08µm Sn/Pb

5,08µm Sn/Pb

5,08µm Sn/Pb

5,08µm Sn

0,76µm Au

0,25µm Au

0,76µm Au

2,54µm Sn/Pb

0,76µm Au



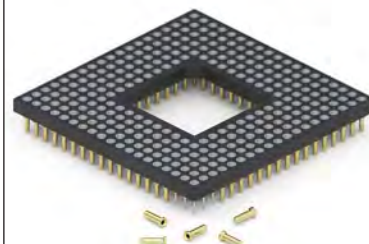
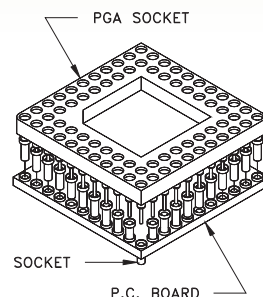
Mill-Max Mfg. Corp. • 190 Pine Hollow Road, P.O. Box 300, Oyster Bay, NY 11771 • 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com

PIN GRID ARRAY SOCKETS

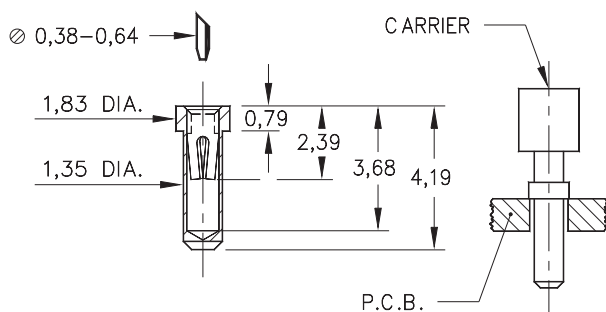
SERIES 605, 614 • 2,54 AND INTERSTITIAL GRID • CARRIER TYPE

- Series 614 & 605 PGA carrier sockets offer 4 receptacle styles
- Many combinations of receptacles and clips to cover all applications
- Carrier sockets provide a convenient way of loading groups of receptacles onto a PC board
- Removeable insulator makes carriers ideal for low profile applications
- High temperature PCT polyester insulator material suitable for all forms of soldering including lead-free
- For Electrical, Mechanical and Environmental Data, see page 137 for details

APPLICATION OF PGA SOCKET CARRIERS

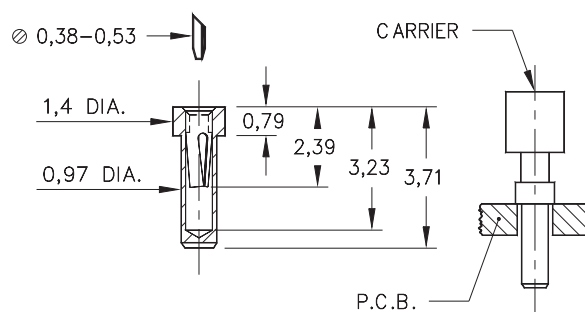


SERIES 614...001, 002, 003 LOW PROFILE SOCKET

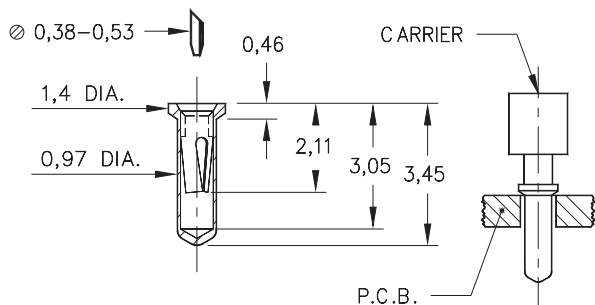


For .100" Grid Only

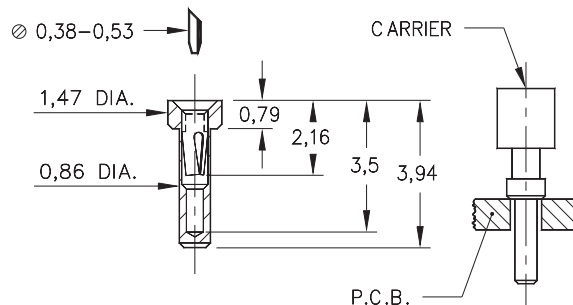
SERIES 614...007 MINIATURE SOCKET



SERIES 614...012 LOWEST PROFILE SOCKET



SERIES 605...048 REDUCED BARREL SOCKET



XX=Plating Code
See Below

RoHS-2
2011/65/EU

Visit www.mill-max.com/pga
to configure a formal part number

SPECIFY PLATING CODE XX=	13	93	43
Sleeve (Pin)	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn
Contact (Clip)	0,76µm Au	0,76µm Au	0,76µm Au

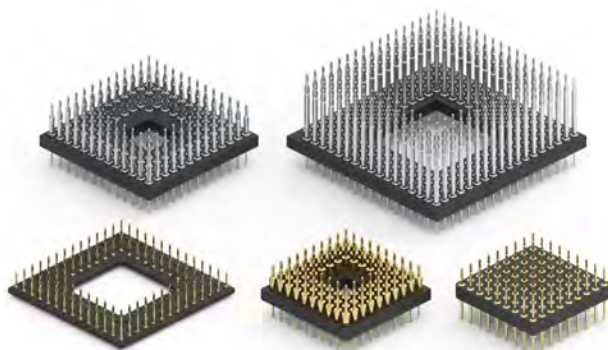


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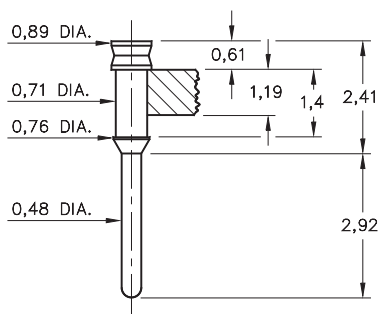
PIN GRID ARRAY HEADERS

**SERIES 507, 550, 551, 599 • 2,54 AND INTERSTITIAL GRID •
SURFACE MOUNT AND THROUGH-HOLE**

- Series 551 and 599 headers are available on 2,54 centers
- Series 507 and 550 PGA headers are available for interstitial patterns and designed for SMT adapter applications
- Series 550 and 551 are through-hole mount for adapter & board stacking applications
- Series 550 and 551 use High temperature PCT polyester insulator material suitable for all forms of soldering
- Series 507 and 599 use FR-4 epoxy insulator material
- For Electrical, Mechanical and Environmental Data, see page 137 for details

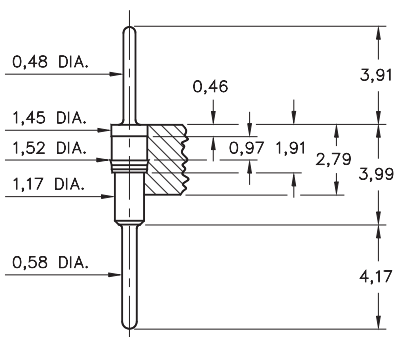


SERIES 507
SMT HEADER PIN TYPE #0737



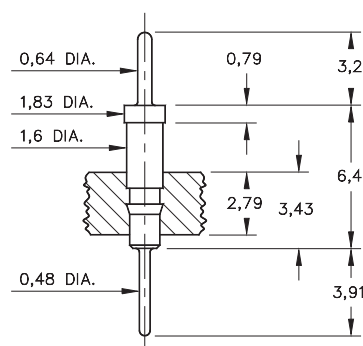
Interstitial Patterns Only

SERIES 550
HEADER PIN TYPE #5012

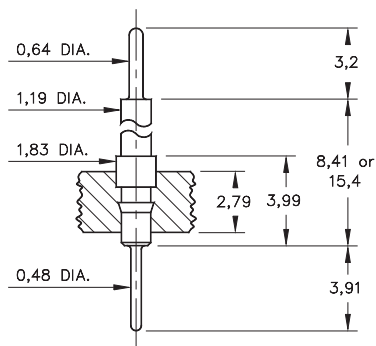


Interstitial Patterns Only

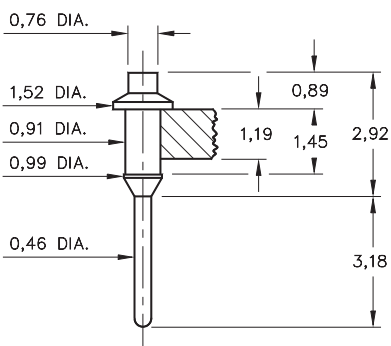
SERIES 551
HEADER PIN TYPE #5503



SERIES 551
HEADER PIN TYPE #5504 & #5505



SERIES 599
SMT HEADER PIN TYPE #9976



XX=Plating Code
See Below

RoHS-2
2011/65/EU

Visit www.mill-max.com/pga
to configure a formal part number

SPECIFY PLATING CODE XX =

Pin Plating



10

90

40

0,25µm Au

5,08µm Sn/Pb

5,08µm Sn



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SERIES 540, 579, 582, 587, 599, 940 BGA AND PLCC SPECIFICATIONS

TECHNICAL SPECIFICATIONS FOR BGA ADAPTER SYSTEM

Materials:

- Socket contact: Three finger, stamped beryllium copper alloy 172, HT (Mill-Max type #04 or #05); plated 0,25µm gold over 1,27µm nickel.
- Socket shell and adapter pins: Precision machined brass alloy; plated 0,25µm gold over 2,54µm nickel.
- Insulator material: 1,19 or 1,57 thick glass-epoxy type FR-4, rated UL94V-0. TCE = 10-13ppm/°C, $\epsilon_r = 5.0$

Mechanical:

- Insertion and withdrawal forces (using 0,25 dia. polished steel gage pin): Insertion: .36N typ. per pin
Withdrawal: .20N typ. per pin
- Insertion force of an actual 225 pin device: 90N
- Durability: 100 cycles
- Coplanarity: less than or equal to 0,13

Electrical:

- Current rating (per pin): 1A
- Working voltage: 100 VRMS/150 VDC max.
- Low level contact resistance: 10 mΩ max.
- Insulation resistance @ 500 VRMS: Initial value: 1,000,000 MΩ min.
After climatic tests: 10,000 MΩ min.

- Dielectric withstanding voltage: 500 VRMS
- Capacitance between adjacent contacts: 1 pF max.
- Self inductance per pin: 2 nH max.
- Electrical length: 31 pS

Environmental:

- Operating temperature range: -55 °C to +125 °C
BGA adapter/socket systems have withstood the following environmental tests without mechanical or electrical failure:
- Damp heat, steady state: 40 °C, 93% rH, 21 days
- Damp heat, cyclic: 25/55 °C, 6 days
- Dry heat: 100°C, 1,000 hours
- Thermal shock: -55 to +125 °C, 5 cycles
- Random vibration: 50 to 500 Hz, 8g, 20 min. per axis
- Shock: 50 g per axis
- Solderability: 235 °C, 2 seconds
- Resistance to soldering heat: 270 °C, 10 seconds
- Resistance to corrosion:
- Salt spray: 48 hours
- Sulphur dioxide: 96 hours @ 25 ppm SO₂, 25 °C, 75% rH
- Hydrogen sulphide: 96 hours @ 12 ppm H₂S, 25°C, 75% rH

TECHNICAL SPECIFICATIONS FOR 540 SERIES PLCC SOCKETS

Materials:

- Insulator: Glass filled thermoplastic, self-extinguishing rated, UL94V-0, color black.
- Contact: Plated copper alloy overall nickel underplating, tin finish.

Mechanical Data:

- Contact pressure (per contact): 150 grams min.
- Mechanical data (cycles): 50 cycles min.

Electrical Data:

- Rated current: SMD types: 1A
Through-hole types: 2A
- Contact resistance: 20 mΩ max.
- Insulation resistance: 5,000 MΩ min.
- Dielectric strength: 600 VRMS
- Capacitance: 2pF max.

Environmental Data:

- Operating temperature: -55/+125 °C
- Vibration (No electrical discontinuity greater than 1µs): 10-2000 HZ, 15 g
- Climactic category (EIA): 365-17A

TECHNICAL SPECIFICATIONS FOR 940 SERIES PLCC SOCKETS

Materials:

- Insulator: PPS Polyphenylene Sulfide, Rated UL94V-0.
- Contact: Phosphor Bronze with a tin finish and nickel underplate.

Mechanical Data:

- Contact pressure (per contact): 150 grams min.
- Mechanical data (cycles): 25 cycles min.

Electrical Data:

- Rated current: SMD types: 1A
Through-hole types: 1A
- Contact resistance: 30 mΩ max.
- Insulation resistance: 10,000 MΩ min.
- Dielectric strength: 600 VAC
- Capacitance: 1pF max.

Environmental Data:

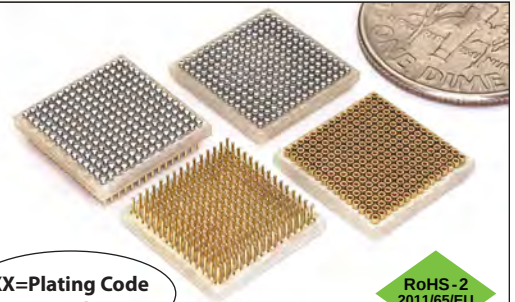
- Operating temperature: -55/+105 °C
- Vibration (No electrical discontinuity greater than 1µs): 10-2000 HZ, 15 g
- Climactic category (EIA): 365-17A



BALL GRID ARRAYS

SERIES 540,579,582,587,599 • FOR 0,8mm GRID, 1mm GRID & 1,27mm GRID • MALE PIN ADAPTERS AND FEMALE SOCKETS

- BGA adapter/socket systems are a reliable way to make BGAs pluggable. They may also be used as a high density board-to-board interconnect
- The BGA device for a 0,8mm or 1mm grid is soldered to a 9929 adapter (or a 7929 adapter is soldered to a PCB), then either one can be plugged into a 9942 (0.8mm grid) or 9928 (1mm grid) surface mount socket
- The BGA device for a 1,27mm grid is soldered to a 8737/4048 adapter (or a 4098/4054 adapter is soldered to a PCB), then either one can be plugged into a 8214 surface mount socket
- Both socket and adapter have the same footprint as the BGA device
- Insertion force is .4N per pin for standard pins 7929/9929, 8737/4098. Tapered EZ-IN pins 4048/4054 reduce insertion force to only .08N, and are recommended for pin counts greater than 500
- Insulator material is FR-4 epoxy having a TCE to match the BGA device and circuit board
- For Electrical, Mechanical and Environmental Data, see page 141 for details

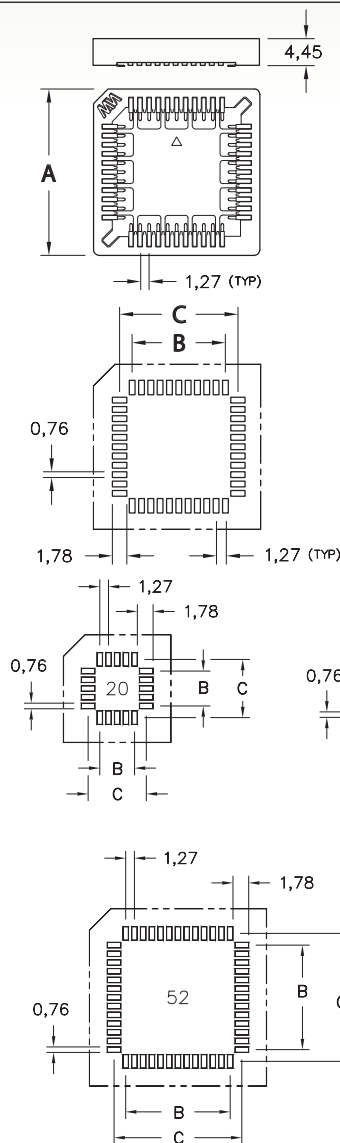


SERIES 599...429 BGA MOUNT TYPE #9929 For 0,8mm & 1mm Grid Only	SERIES 579...429 PCB MOUNT TYPE #7929 For 0,8mm & 1mm Grid Only	SERIES 587...437 BGA MOUNT TYPE #8737 For 1,27 Grid Only						
SERIES 540...448 EZ-IN BGA MOUNT TYPE #4048 For 1,27 Grid Only	SERIES 540...498 STANDARD PCB MOUNT TYPE #4098 For 1,27 Grid Only	SERIES 540...454 EZ-IN PCB MOUNT TYPE #4054 For 1,27 Grid Only						
SERIES 599...442 SURFACE MOUNT TYPE #9942 For 0,8mm Grid Only	SERIES 599...428 SURFACE MOUNT TYPE #9928 For 1mm Grid Only	SERIES 582...414 SURFACE MOUNT TYPE #8214 For 1,27 Grid Only						
Visit www.mill-max.com/bga to configure a formal part number								
SPECIFY PLATING CODE XX = <table border="1"> <tr> <td>Sleeve (Pin)</td> <td></td> <td>0,25µm Au</td> </tr> <tr> <td>Contact (Clip)</td> <td></td> <td>0,25µm Au</td> </tr> </table>			Sleeve (Pin)		0,25µm Au	Contact (Clip)		0,25µm Au
Sleeve (Pin)		0,25µm Au						
Contact (Clip)		0,25µm Au						
SPECIFY PLATING CODE XX = <table border="1"> <tr> <td>Pin Plating</td> <td></td> <td>0,25µm Au</td> </tr> </table>			Pin Plating		0,25µm Au			
Pin Plating		0,25µm Au						

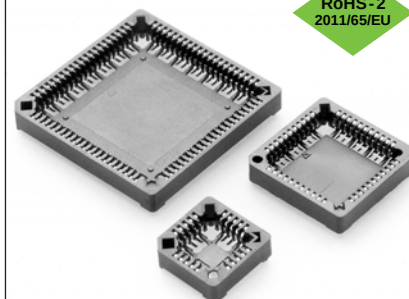


STANDARD PLCC SOCKETS

SERIES 940 • SURFACE MOUNT

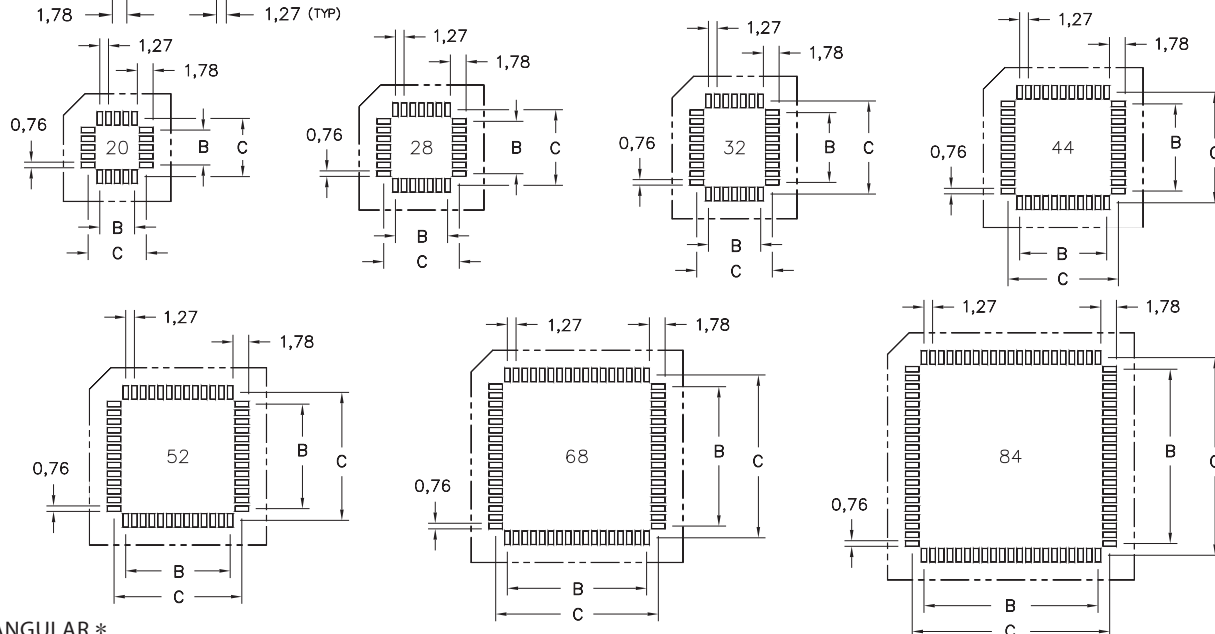


- Note: Not end stackable
- Accepts JEDEC PLCCs MO-047 and MO-052
- Low profile for high density PC board stacking
- Standoffs provide clearance for heat dissipation and cleaning
- Contacts are plated with 3,81µm tin
- Insulator material is glass reinforced PPS
- For Electrical, Mechanical and Environmental Data, see page 141 for details



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PCB LAYOUT FOR SURFACE MOUNT



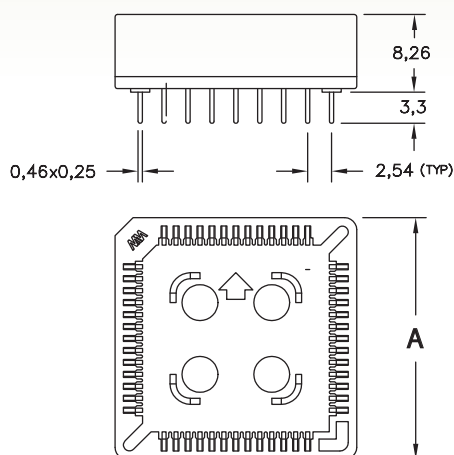
RECTANGULAR *

Number of Contacts	Ordering Information	- A -	- B -	- C -	Qty. per Tube Reel	
20	940-44-020-17-40000X	15,57	5,08	8,48	32	470
28	940-44-028-17-40000X	18,11	7,62	11,02	27	390
32 *	940-44-032-17-40000X *	20,6 / 18,1	10,2 / 7,62	13,6 / 11,0	24	390
44	940-44-044-17-40000X	22,86	12,7	16,10	21	250
52	940-44-052-17-40000X	25,73	15,24	18,64	19	250
68	940-44-068-17-40000X	30,81	20,32	23,72	16	220
84	940-44-084-17-40000X	35,89	25,4	28,80	14	200
Packaging Codes: X = 0 (Tubes) X = 4 (Tape & Reel)						



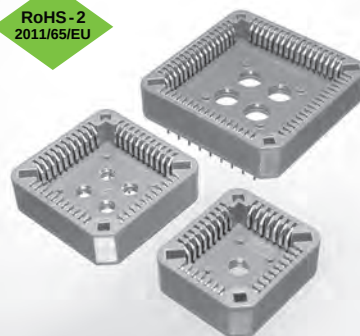
STANDARD PLCC SOCKETS

SERIES 940 • THROUGH-BOARD MOUNT



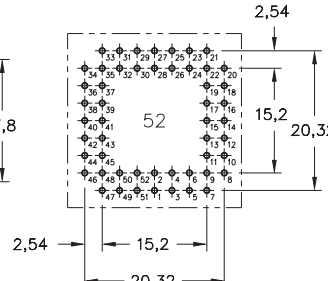
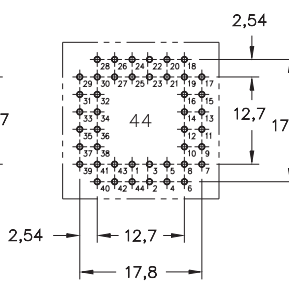
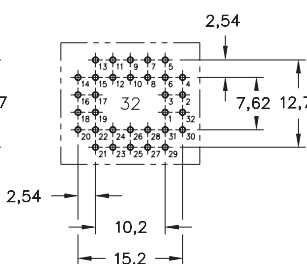
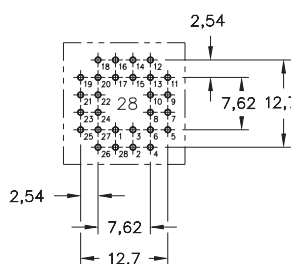
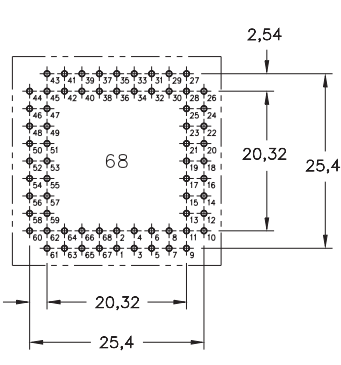
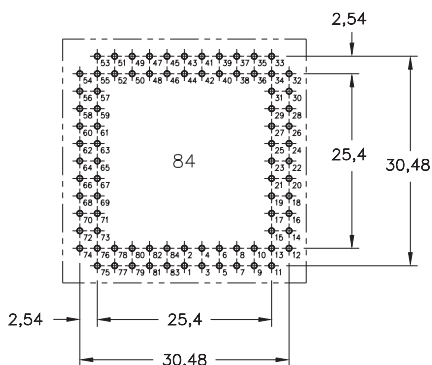
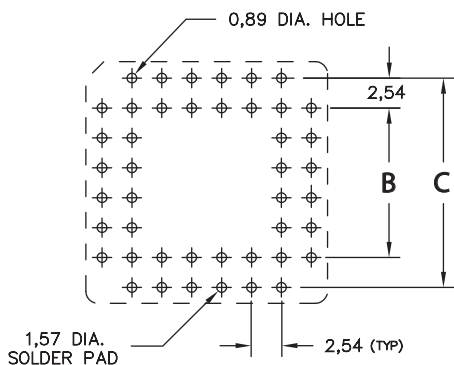
- Note: Not end stackable
- Accepts JEDEC PLCCs MS-016 & MS-018 leaded plastic substrates
- Internal standoffs insure proper positioning of chip carrier in socket
- Standoffs provide clearance for heat dissipation and cleaning
- Contacts are plated with 3,81 μ m tin
- Insulator material is glass reinforced PPS
- For Electrical, Mechanical and Environmental Data, see page 141 for details

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2011/65/EU



PRINTED CIRCUIT DRILLING PATTERNS (TOP VIEW)

0,89 dia. min. mounting holes



RECTANGULAR *

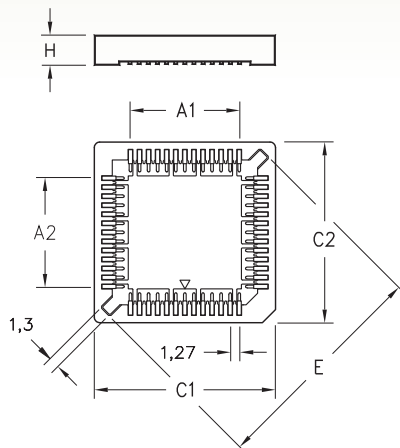
Number of Contacts	Ordering Information	- A -	- B -	- C -	Quantity per Tube
20	940-44-020-24-000000	15,57	5,08	10,16	38
28	940-44-028-24-000000	18,11	7,62	12,7	33
32 *	940-44-032-24-000000 *	20,7 / 18,1	10,2 / 7,62	15,2 / 12,7	29
44	940-44-044-24-000000	23,19	12,7	17,8	26
52	940-44-052-24-000000	25,73	15,24	20,32	23
68	940-44-068-24-000000	30,81	20,32	25,4	19
84	940-44-084-24-000000	35,89	25,4	30,48	16
100	940-44-100-24-000000	40,72	30,48	35,56	25
Plating Code 44 ♦ = 150 μ m Sn					



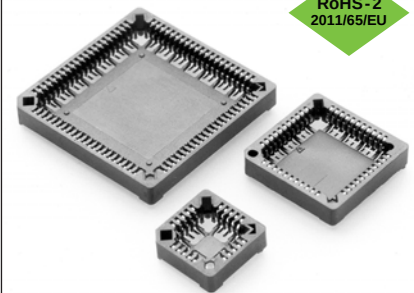
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COMPACT PLCC SOCKETS

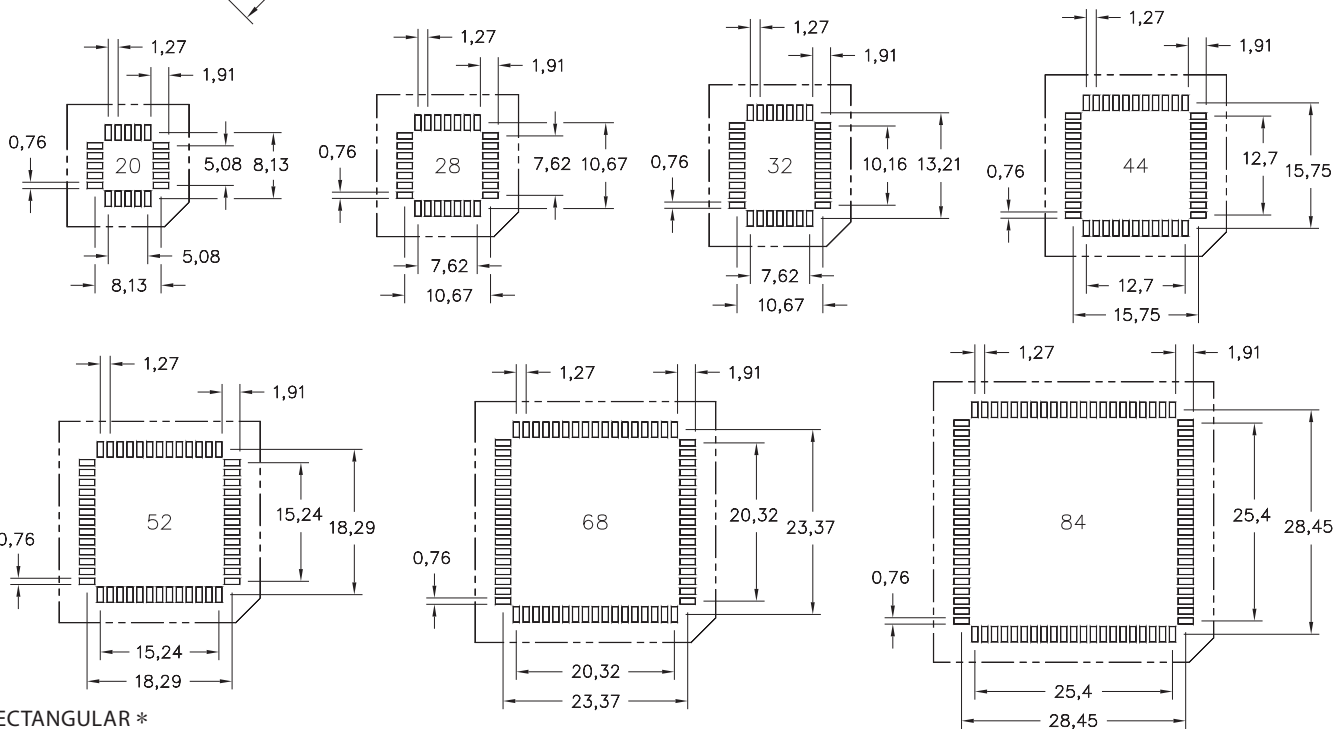
SERIES 540 • SURFACE MOUNT



- Note: Not end stackable
- Designed for JEDEC type devices
- Open frame design in solder area improves results of IR soldering and facilitates visual inspection of solder pads
- Contacts are plated with 3,81µm tin
- The insulator is molded PPS (Ryton R-4)
- For Electrical, Mechanical and Environmental Data, see page 141 for details



PCB LAYOUT FOR SURFACE MOUNT



RECTANGULAR *

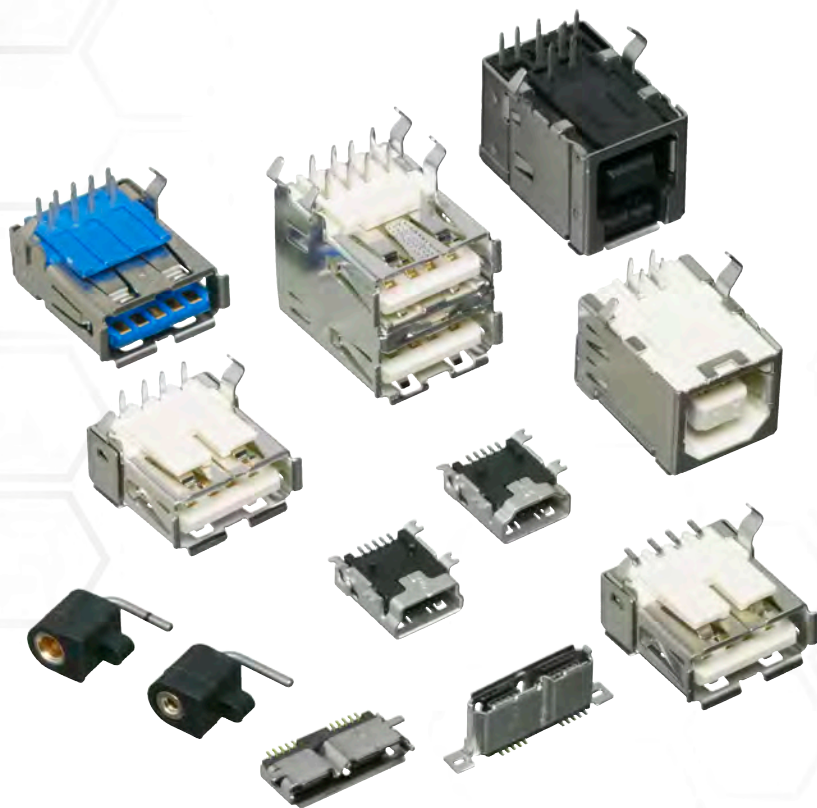
Number of Contacts	Ordering Information	- A1 -	- A2 -	- C1 -	- C2 -	- E -	- H -	Qty. per Tube	Tape Width mm	Qty. per Reel
20	540-44-020-17-40000X	5,08	5,08	14,86	14,86	16,69	4,57	34	24	490
28	540-44-028-17-40000X	7,62	7,62	17,4	17,4	20,29	4,57	29	32	400
32 *	540-44-032-17-40000X *	7,62	10,16	17,02	19,56	22,48	3,76	26	32	400
44	540-44-044-17-40000X	12,7	12,7	22,48	22,48	27,48	4,57	22	44	250
52	540-44-052-17-40000X	15,24	15,24	25,4	25,4	31,09	4,57	20	44	250
68	540-44-068-17-40000X	20,32	20,32	30,53	30,53	38,28	4,57	16	44	220
84	540-44-084-17-40000X	25,4	25,4	35,56	35,56	45,49	4,57	14	56	200
Packaging Codes: X = 0 (Tubes) X = 4 (Tape & Reel)										





WWW.MILL-MAX.COM

IO SOCKETS



SERIES 896, 897 • UNIVERSAL SERIAL BUS 3.0 • SOCKETS

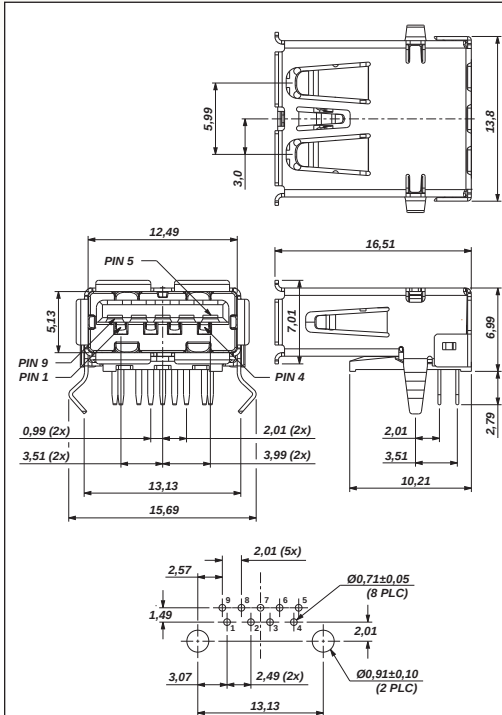


FIG. 1

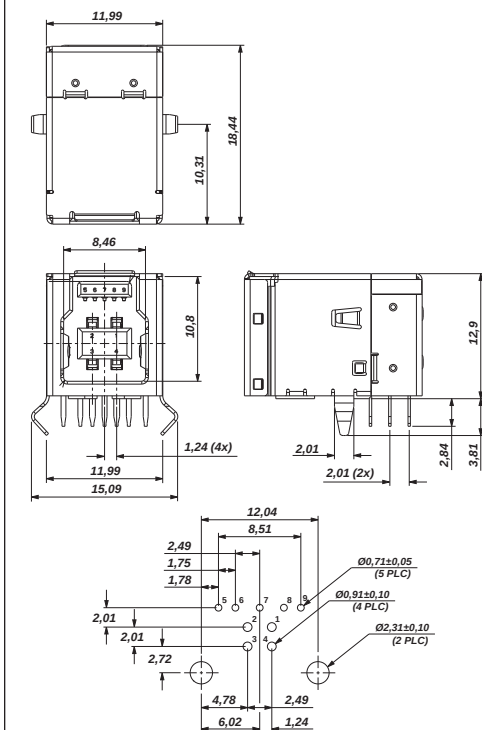


FIG. 2

- USB 3.0 receptacles for through-hole mount
- Plug retention tabs
- Kinked locating legs for secure PCB retention
- Fully shielded
- Fully backwards compatible with USB 2.0
- 10X faster than USB 2.0 and provides optimized power efficiency
- Packaged in trays:
896-46-009-90-300000 - 100 pieces per tray
897-46-009-90-300000 - 80 pieces per tray



ORDERING INFORMATION

FIG. 1	USB 3.0 Type A Receptacle, Single, Through-Hole
	896-46-009-90-300000
FIG. 2	USB 3.0 Type B Receptacle, Single, Through-Hole
	897-46-009-90-300000

Technical Specifications

Materials:

Terminals: Copper Alloy, Tin-Plated
Contacts: Copper Alloy, Gold Flash over PdNi
Casing and Shield: Stainless Steel
Insulator material: High temperature thermoplastic rated UL94V-0

Ratings:

Voltage: 30VAC (rms)
All housing materials rated for "lead-free" soldering up to 260° C

Electrical:

Contact resistance: 30mΩ max. for power and ground pins
50mΩ max. for all others
Insulation resistance: 100MΩ min.
Dielectric withstanding voltage: 100VAC at sea level
Capacitance: 2pF max.

Mechanical:

Random vibration: No discontinuity >1μs per EIA 364-28, cond. VII, letter D
Physical shock: No discontinuity >1μs per EIA 364-27, condition H
Durability: 5000 cycles min. per EIA 364-09
Mating force: 35 Newtons max. per EIA 364-13
Unmating force: Initial - 10 Newtons min. per EIA 364-13
After test - 8 Newtons min. per EIA 364-13

Environmental:

Thermal shock per EIA 364-32, condition I
Humidity per EIA 364-31
Temperature life per EIA 364-17, method A
Solderability per EIA 364-52, category 2

RoHS-2
2011/65/EU

SERIES 896, 897 • UNIVERSAL SERIAL BUS • SOCKETS

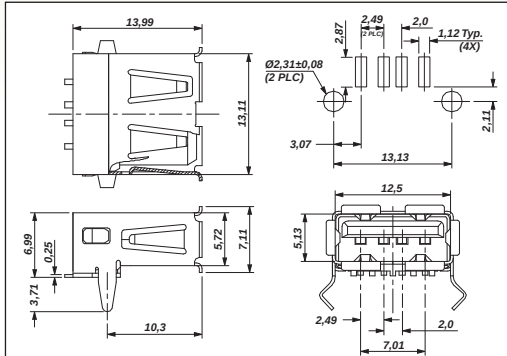


FIG. 1

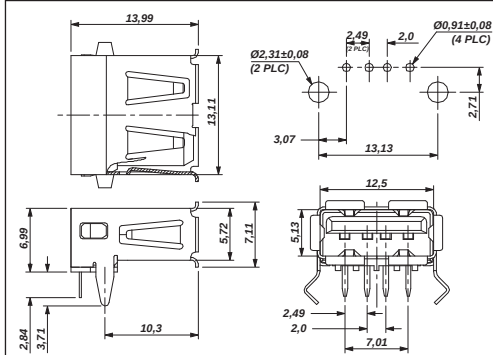


FIG. 2

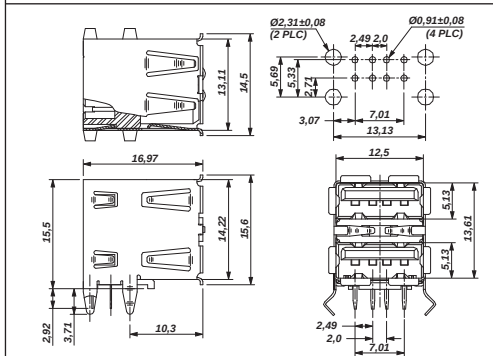


FIG. 3

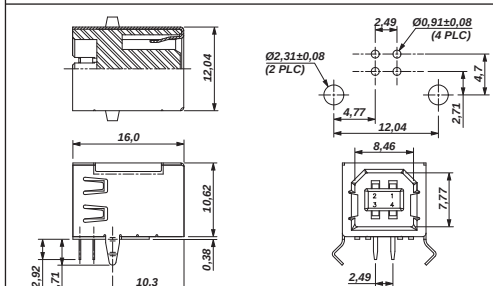


FIG. 4

- USB receptacles for through-hole and surface mount
- Plug retention tabs
- Kinked locating legs for secure PCB retention
- Fully shielded
- Fully compatible with USB 1.0 and 2.0 specifications
- Passes 16MHz signal attenuation per ASTM-D-4566
- Packaged in trays, 150 pieces per tray



ORDERING INFORMATION

FIG. 1	Type A Receptacle, Single, Surface Mount
	896-43-004-00-000000
FIG. 2	Type A Receptacle, Single, Through-Hole
	896-43-004-90-000000
FIG. 3	Type A Receptacle, Double, Through-Hole
	896-43-008-90-000000
FIG. 4	Type B Receptacle, Single, Through-Hole
	897-43-004-90-000000

Technical Specifications

Materials:

Terminals: Copper Alloy, Tin-Plated
Casing and Shield: Stainless Steel
Insulator material: High temperature thermoplastic rated UL94V-0

Ratings:

Voltage: 30VAC (rms)
Current: 1A max. per contact for 30°C temperature rise
All housing materials rated for "lead-free" soldering up to 260° C

Electrical:

Contact resistance: 30mΩ max.
Insulation resistance: 1000MΩ min.
Dielectric withstanding voltage: 750VAC at sea level
Capacitance: 2pF max.

Mechanical:

Random vibration: No discontinuity >1μs per EIA 364-28, cond. V, letter A
Physical shock: No discontinuity >1μs per EIA 364-27, condition H
Durability: 1500 cycles min. per EIA 364-09
Mating force: 35 Newtons max. per EIA 364-13
Unmating force: 10 Newtons min. per EIA 364-13

Environmental:

Thermal shock per EIA 364-32, condition I
Humidity per EIA 364-31, method II, condition A
Temperature life per EIA 364-17, condition 3, method A

RoHS - 2
2011/65/EU

SERIES 897 • UNIVERSAL SERIAL BUS 3.0 MICRO-B • SURFACE MOUNT SOCKETS

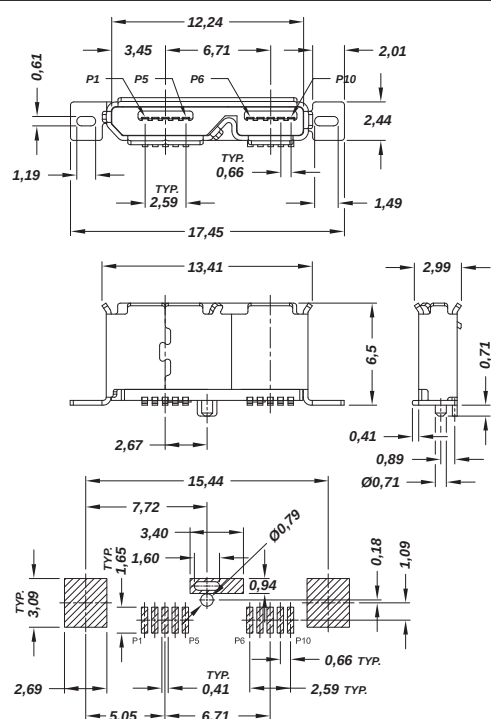


FIG. 1



ORDERING INFORMATION

FIG. 1	Micro Type B Receptacle, Single, Vertical Surface Mount
	897-10-010-00-300002
FIG. 2	Micro Type B Receptacle, Single, Surface Mount
	897-10-010-40-300002

Technical Specifications

Materials:

Terminals: Copper Alloy, Gold Flash over Ni
Contacts: Copper Alloy, 0,38µm Gold-Plated over Ni
Shell material: Stainless Steel, Nickel-Plated
Insulator material: High temperature LCP thermoplastic rated UL94V-0



Ratings:

Voltage: 30VAC (rms)
Current: 1.5A (Pin 1 and 5), .25A (other pins)
All housing materials rated for "lead-free" soldering up to 260° C

Electrical:

Contact resistance: 30mΩ max. (Pin 1 and 5)
50mΩ max. (other pins)
Insulation resistance: 100MΩ min.
Dielectric withstanding voltage: 100VAC for 1 minute at sea level

Mechanical:

Random vibration: No discontinuity >1μs per EIA 364-28, cond. V, letter A
Durability: 10,000 cycles max. per EIA 364-09
Mating force: 35 Newtons max. per EIA 364-13
Unmating force: Initial - 10 Newtons min. per EIA 364-13
After test - 8 Newtons min. per EIA 364-13

Environmental:

Operating Temperature Range: -40°C to +85°C
Humidity per EIA 364-31, method II, condition A
Temperature Life per EIA 364-17, condition 3, method A
Solderability per EIA 364-52, category 2 (260°C for 3 seconds)

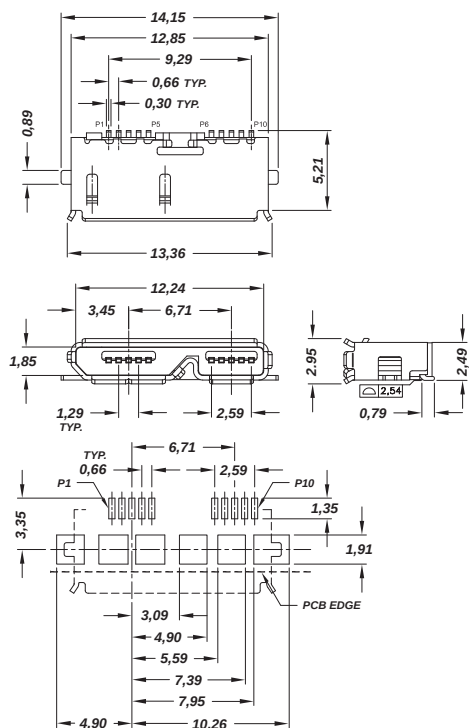


FIG. 2

SERIES 896, 897 • MINI UNIVERSAL SERIAL BUS • SURFACE MOUNT SOCKETS

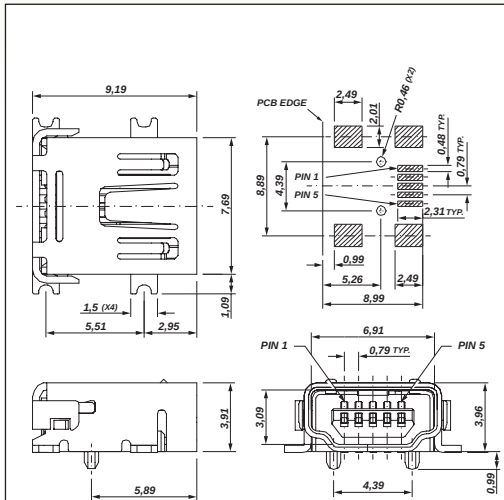


FIG. 1

- Mini USB receptacles for surface mount
- 5 Pin (one ID Pin), 0.8mm pitch, mini USB connector
- Reduced mounting space
- Fully Shielded
- Fully compliant with current USB 2.0 specifications
- Smaller and lighter than standard USB connectors for portable & handheld devices
- Packaged on Tape & Reel - 700 pieces per reel



ORDERING INFORMATION

FIG. 1	Mini Type A Receptacle, Single, Surface Mount
	896-43-005-00-100001
FIG. 2	Mini Type B Receptacle, Single, Surface Mount
	897-43-005-00-100001

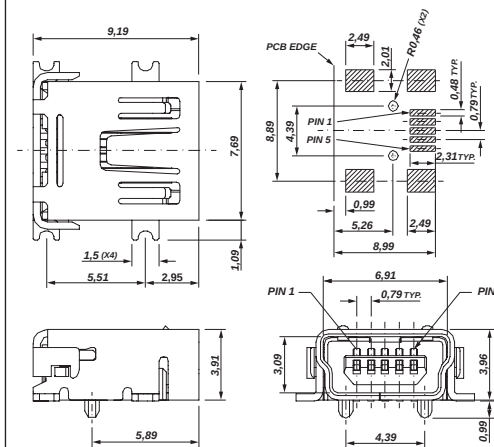


FIG. 2

Technical Specifications

Materials:

Terminals: Copper Alloy, Tin Plated
 Contacts: Copper Alloy, 0.76µm Gold Plated
 Casing and Shield: Stainless Steel
 Insulator material: High temperature thermoplastic rated UL94V-0

Ratings:

Voltage: 30VAC (rms)
 Current: 1A max. per contact for 30°C temperature rise
 All housing materials rated for "lead-free" soldering up to 260° C

Electrical:

Contact resistance: 50mΩ max.
 Insulation resistance: 100MΩ min.
 Dielectric withstanding voltage: 100VAC at sea level
 Capacitance: 2pF max.

Mechanical:

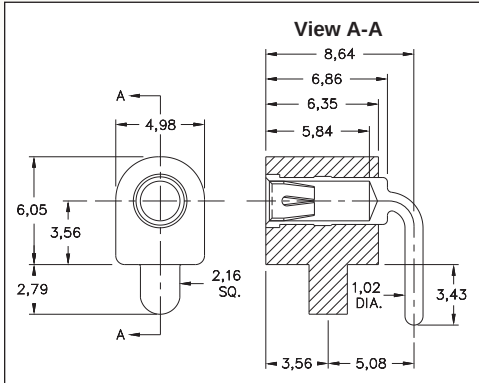
Random vibration: No discontinuity >1µs per EIA 364-28, cond. V, letter A
 Physical shock: No discontinuity >1µs per EIA 364-27, condition H
 Durability: 5000 cycles min. per EIA 364-09
 Mating force: 35 Newtons max. per EIA 364-13
 Unmating force: Initial - 7 Newtons min. per EIA 364-13
 After test - 3 Newtons min. per EIA 364-13
 Cable pull-out force per EIA 364-38

Environmental:

Thermal shock per EIA 364-32, condition I
 Humidity per EIA 364-31, method II, condition A
 Temperature life per EIA 364-17, condition 3, method A
 Solderability per EIA 364-52, category 2

RoHS-2
2011/65/EU

SERIES 395...3XX • RIGHT ANGLE SOCKET • TEST POINT

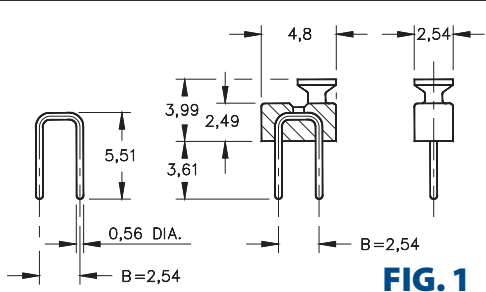


- Available to accept 3 pin sizes: 1, 1.5, & 2mm
- Uses high temperature PCT polyester insulator
- Standard insulator color is black
- For Electrical, Mechanical and Environmental Data, see page 264 for details



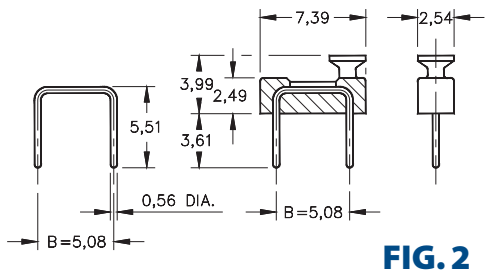
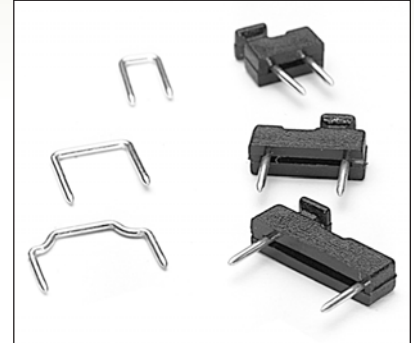
Pin Size	ORDERING INFORMATION						
1.0mm	395-XX-101-34-340000						
1.5mm	395-XX-101-03-380000						
2.0mm	395-XX-101-07-350000						
	RECOMMENDED MOUNTING HOLES Ø2,79±0,08 DRILLED or PLATED THROUGH-HOLE Ø1,14±0,08 PLATED THROUGH-HOLE 5,08 XX=Plating Code See Below RoHS - 2 2011/65/EU						
SPECIFY PLATING CODE XX =	13		93				
Sleeve (Pin)	0,25µm Au		5,08µm Sn/Pb				
Contact (Clip)	0,76µm Au		0,76µm Au				

SERIES 388, 999 • MALE SHORTING JUMPERS & MICROPHONE SOCKETS



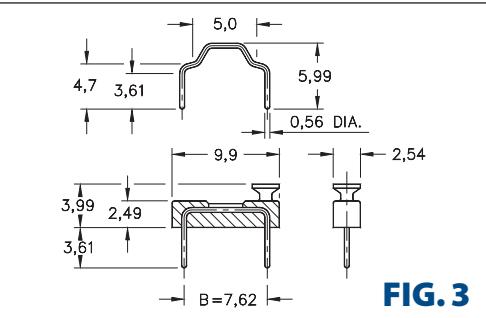
- Male shorting jumpers are available with or without insulator and have 0,56 diameter pins with 2,54, 5,08 or 7,62 center spacing
- Insulator materials are not high temperature
- For Electrical, Mechanical & Environmental Data, see page 264 for details

RoHS-2
2011/65/EU

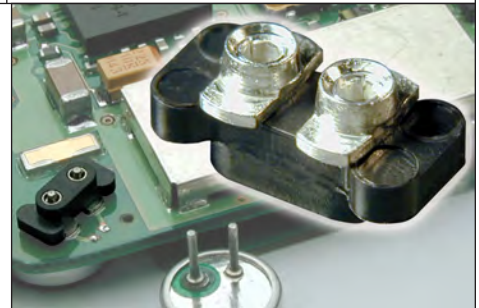


ORDERING INFORMATION

FIG. 1	Male Shorting Jumper 2,54 Spacing	
	Color / Style	Plating 0,25µm Au
	Black	999-11-210-10-000000
	Not Insulated	999-11-110-10-000000
FIG. 2	Male Shorting Jumper 5,08 Spacing	
	Color / Style	Plating 0,25µm Au
	Black	999-11-220-10-000000
	Not Insulated	999-11-112-10-000000
FIG. 3	Male Shorting Jumper 7,62 Spacing	
	Color / Style	Plating 0,25µm Au
	Black	999-11-230-10-000000
	Not Insulated	999-11-113-10-000000

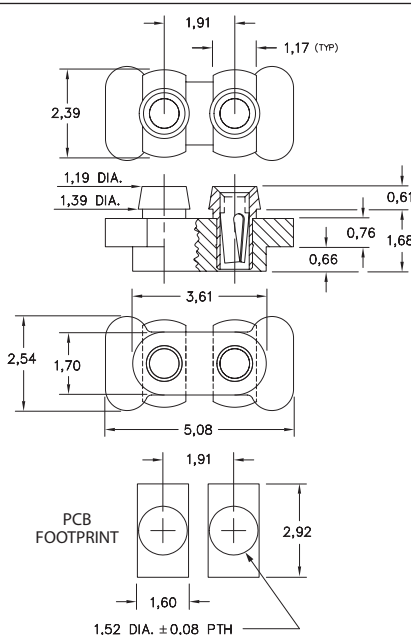


- Series 388 microphone socket is a bottom entry socket for microphones having Ø 0,46 pins on 1,91 centers
- Designed to be surface mount and intrusive reflow soldered
- Series 388 uses MM #8874 pins. See page 159 for details
- Hi-Rel, 3-finger BeCu #11 contact is rated at 3 amps. See page 251 for details
- Insulator is high temperature Nylon 46, rated UL 94 V-0



Ordering Information Microphone Socket

388-XX-102-11-740800 (Discrete socket)	
XX=Plating Code See Below	Plating Code
388-XX-102-11-740799 (Tape and Reel)	
(Supplied on 12mm wide carrier tape per EIA-481: 6,500 per 330mm reel)	
SPECIFY PLATING CODE XX=	
Sleeve (Pin)	5,08µm Sn/Pb
Contact (Clip)	5,08µm Sn/Pb





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PIN RECEPTACLES



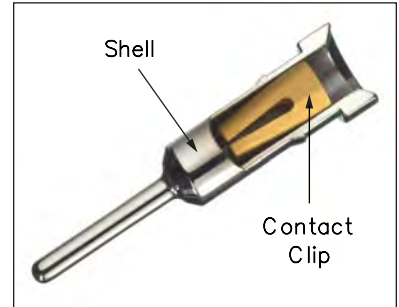


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The basic component used for making electrical connections in a wide array of electronic equipment is the pin receptacle. The Mill-Max pin receptacle provides a highly reliable, low resistance electrical path to terminate the pins of a device or discrete wires to a PCB or other mating apparatus such as cables, modules or other pins and wires. Assembled into sockets i.e. DIP, SIP, PGA, etc. or used discretely, receptacles make devices and modules pluggable for repair and replacement. The machined shell or housing of pin receptacles is available in various styles depending on the application, e.g. low profile, elevated, press-fit, SMT. The terminal end of pin receptacles has many variations: a round solder tail, a press-fit tail, a surface mount base, crimp barrel, soldercup, swage feature or no tail.



Inside every Mill-Max receptacle is a contact clip. A contact clip is a conductive, multi-finger, progressive die stamping. The standard material is beryllium copper and for high temperature applications, beryllium nickel is used. Both materials are heat treated to achieve optimal spring characteristics & durability. The contact clip engages, scores and holds the mated pin making an electrical and gas tight connection at 3, 4 or 6 points of contact, depending on the selected contact. Mill-Max receptacles are capable of 1,000 minimum insertion/extraction cycles for a broad range of applications. Mating pin size, shape and finish, along with application specific variables, will affect the life of a contact.



Mill-Max currently offers over 36 styles of contacts to engage pins from 0,20 to 2,59 in diameter. A convenient contact selector chart is located on page 248 showing the different specifications of each contact.



Pin receptacles can be utilized as discrete connectors for the plugging and unplugging of components on PC boards. They can be utilized individually or in random arrays where the usage is small. They can be handled and loaded manually in preparation for soldering or, with a different style shell, for press-fitting. When the requirement is for volume placement of receptacles, socket carriers or tape and reel packaging are tremendous labor-saving solutions for our customers.

In addition to the products found on the following pages, Mill-Max offers the following stock materials and diameters available for manufacture:

BRASS Alloy 360, 1/2 hard: 1,57/1,83/1,98/2,36/3,18/3,96/4,75/6,35 diameters

PHOSPHOR BRONZE Alloy 544: 1,57/1,83/1,98 diameters

TELLURIUM COPPER Alloy 145: 2,01/2,36/3,18/3,96 diameters

Mill-Max will gladly quote application specific products. Please complete the specification sheet on page 247 or send us your own drawings. We assure you a fast response.



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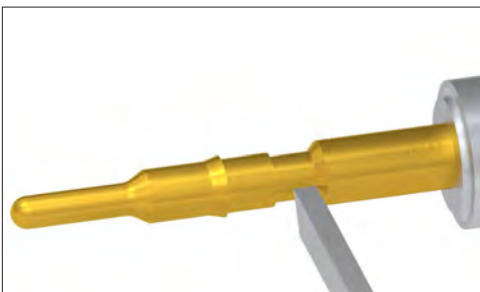
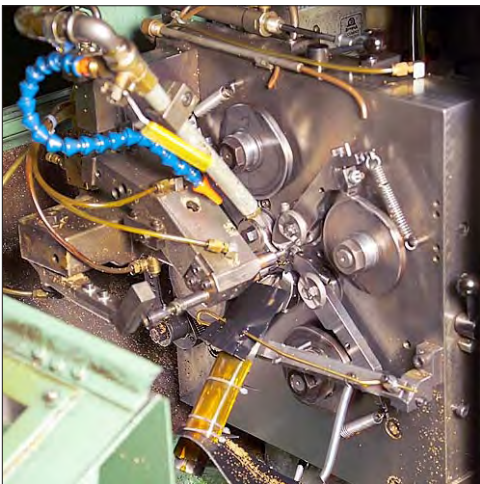
CUSTOM MACHINING CAPABILITY

DON'T SEE QUITE WHAT YOU'RE LOOKING FOR IN THE PIN & RECEPTACLE SECTION OF THE CATALOG?

Mill-Max's unique high-speed precision-machining capability enables us to provide custom-designed pins or receptacles tailored to meet your specific requirement.

With over 200 high-speed turning machines on our premises in Oyster Bay, NY, Mill-Max is readily equipped to provide custom pins, terminals and receptacles to your exacting specifications.

Moreover, our in-house, state-of-the-art plating equipment allows us to plate your custom pin with a selection of industry standard finishes. Initial quantities are typically shipped in 5-6 weeks.



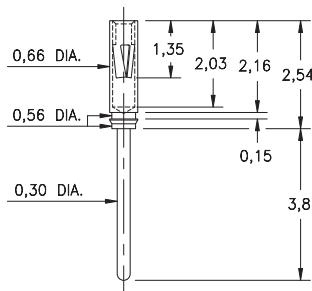
PIN RECEPTACLES

**FOR 0,20 - 0,33 DIAMETER PINS (#04 CONTACT)
AND 0,30 - 0,43 DIAMETER PINS (#10 CONTACT)
(SEE SPECIFIC CONTACT RANGE ON PAGE 250)**

8210

8210-0-15-15-04-27-04-0

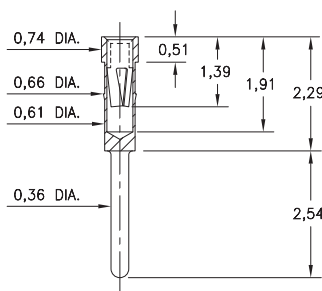
Press-fit in 0,61/0,68 stepped hole



0439

0439-0-15-15-04-27-04-0

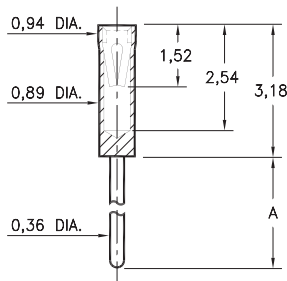
Press-fit in 0,64 mounting hole



0464

0464-X-15-XX-10-XX-04-0

Solder mount in 0,41 min. mounting hole

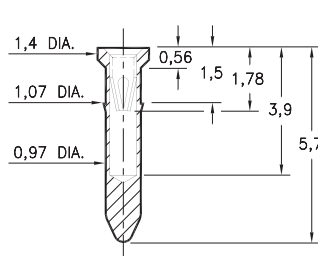


Basic Part Number	Length A
0464-0	3,18
0464-1	6,35

9225

9225-0-15-XX-10-XX-10-0

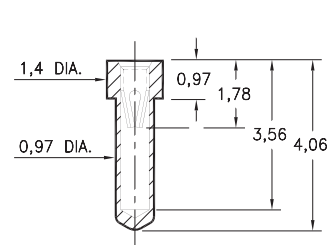
Press-fit in 1,0 mounting hole



0529

0529-0-15-XX-10-XX-10-0

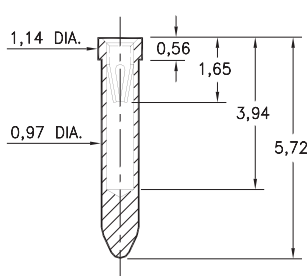
Solder mount in 1,02 min. mounting hole



8947

8947-0-15-XX-10-XX-10-0

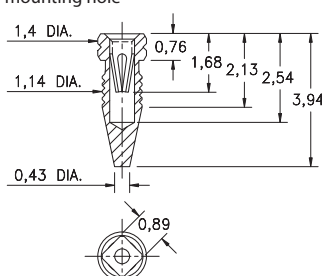
Solder mount in 1,02 min. mounting hole



4993

4993-0-15-15-10-27-10-0

Compliant press-fit in 1,04 - 1,12 Dia. mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$

RoHS-2
2011/65/EU

ORDER CODE: XXXX - X - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 5,08 μ m TIN/LEAD OVER NICKEL
- 80 5,08 μ m TIN OVER NICKEL (RoHS)
- 15 0,25 μ m GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 02 2,54 μ m TIN/LEAD OVER NICKEL
- 84 2,54 μ m TIN OVER NICKEL (RoHS)
- 27 0,76 μ m GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#04 or #10 CONTACT (DATA ON PAGE 250)
(CONTACTS #04 & #10 NOT INTERCHANGEABLE)



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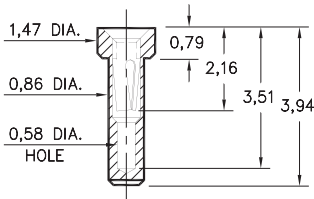
PIN RECEPTACLES

**FOR 0,38 - 0,51 DIAMETER PINS (#11 CONTACT)
AND 0,38 - 0,56 DIAMETER PINS (#21 CONTACT)
(SEE SPECIFIC CONTACT RANGE ON PAGE 251)**

0548

0548-0-15-XX-21-XX-10-0

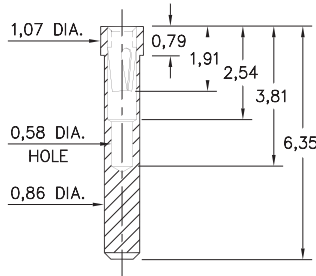
Solder mount in 0,91 min. mounting hole



8975

8975-0-15-XX-21-XX-10-0

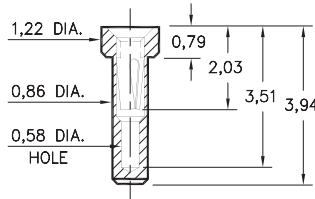
Solder mount in 0,91 min. mounting hole



3016

3016-0-15-XX-21-XX-10-0

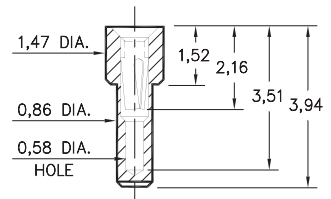
Solder mount in 0,91 min. mounting hole



9548

9548-0-15-XX-21-XX-10-0

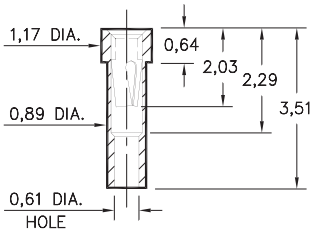
Solder mount in 0,91 min. mounting hole



8637

8637-0-15-XX-21-XX-10-0

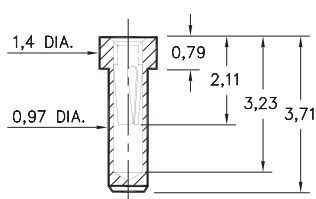
Solder mount in 0,94 min. mounting hole



1407

1407-0-15-XX-11-XX-10-0

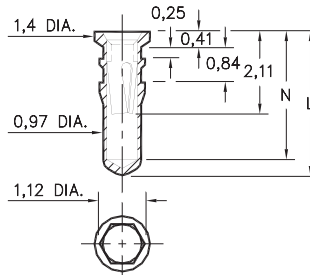
Solder mount in 1,02 min. mounting hole



0553/8553

X553-X-15-XX-X1-XX-10-0

Hex press-fit in 1,04 plated through-hole

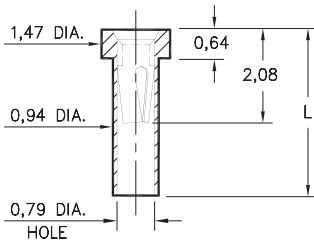


Basic Part Number	Length L	Depth N
0553-1	3,56	3,15
0553-2	4,32	3,91
0553-3	7,16	6,76
8553-0	6,22	5,82

0566

0566-X-15-XX-21-XX-10-0

Solder mount in 1,0 min. mounting hole

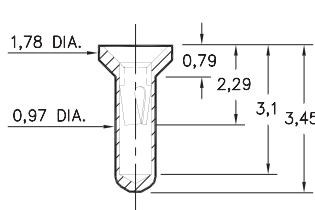


Basic Part Number	Length L
0566-1	2,11
0566-2	3,51

0442

0442-0-15-XX-11-XX-10-0

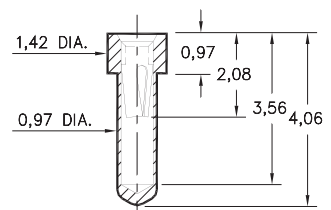
Solder mount in 1,02 min. mounting hole



0554

0554-0-15-XX-21-XX-10-0

Solder mount in 1,02 min. mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 15 - XX - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25μm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 02 2,54μm TIN/LEAD OVER NICKEL
- ◆ 84 2,54μm TIN OVER NICKEL (RoHS)
- ◆ 27 0,76μm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#11 or #21 CONTACT (DATA ON PAGE 251)

(For alternate contact choices, see group A on page 248)



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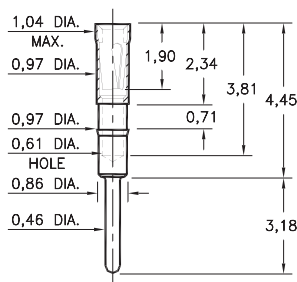
PIN RECEPTACLES

**FOR 0,38 - 0,46 DIAMETER PINS (#09 CONTACT)
FOR 0,38 - 0,51 DIAMETER PINS (#11 CONTACT)
AND 0,38 - 0,56 DIAMETER PINS (#21 CONTACT)**

0467

0467-0-15-XX-21-XX-04-0

Press-fit in 0,94 mounting hole

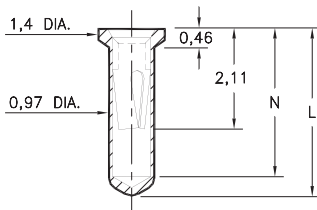


0552

0552-X-15-XX-X1-XX-10-0

Solder mount in 1,02 min. mounting hole
Also available on 16mm wide carrier tape:
1,500 parts per 330mm reel

Order as: 0552-X-57-XX-X1-XX-10-0

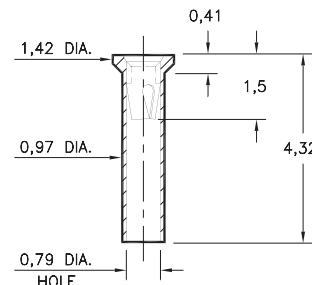


Basic Part Number	Length L	Depth N
0552-1	3,45	3,05
0552-2	4,32	3,81

5522

5522-0-15-XX-09-XX-10-0

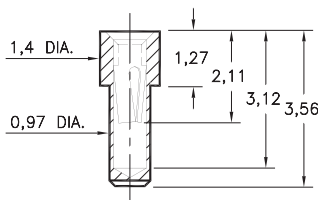
Solder mount in 1,02 min. mounting hole



0569

0569-0-15-XX-X1-XX-10-0

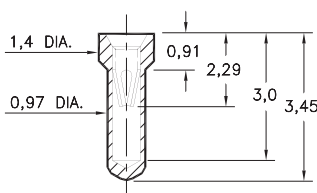
Solder mount in 1,02 min. mounting hole



6023

6023-0-15-XX-21-XX-10-0

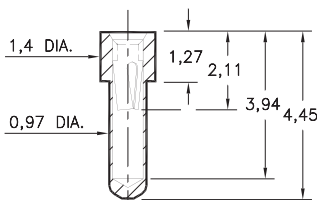
Solder mount in 1,02 min. mounting hole



6214

6214-0-15-XX-21-XX-10-0

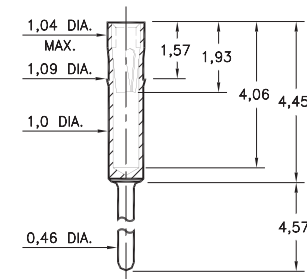
Solder mount in 1,02 min. mounting hole



2086

2086-0-15-XX-21-XX-04-0

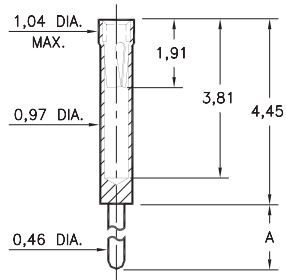
Press-fit in 1,02 mounting hole



0461

0461-X-15-XX-X1-XX-04-0

Solder mount in 0,51 min. mounting hole



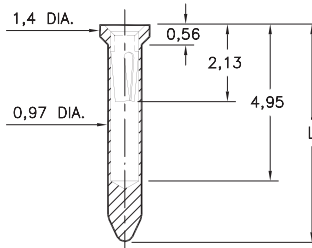
Basic Part Number	Length L
0461-0	10,16
0461-1	6,99
0461-2	4,57
0461-3	3,18
0461-4	1,52
0461-5	11,18

8579

8579-X-15-XX-X1-XX-10-0

Solder mount in 1,02 min. mounting hole
Also available on 24mm wide carrier tape:
1,200 parts per 330mm reel

Order as: 8579-0-57-XX-X1-XX-10-0



Basic Part Number	Length L
8579-0	5,94
8579-1	7,49

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 15 - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 5,08 μ m TIN/LEAD OVER NICKEL
- 80 5,08 μ m TIN OVER NICKEL (RoHS)
- 15 0,25 μ m GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 02 2,54 μ m TIN/LEAD OVER NICKEL
- 84 2,54 μ m TIN OVER NICKEL (RoHS)
- 27 0,76 μ m GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#09, #11 or #21 CONTACT (DATA ON PAGES 250 & 251)

(For alternate contact choices, see group A on page 248)



Mill-Max Mfg. Corp. • 190 Pine Hollow Road, P.O. Box 300, Oyster Bay, NY 11771 • 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com

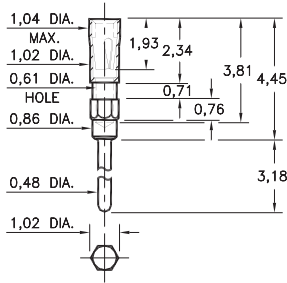
PIN RECEPTACLES

**FOR 0,38 - 0,51 DIAMETER PINS (#11 CONTACT)
AND 0,38 - 0,56 DIAMETER PINS (#21 CONTACT)
(SEE SPECIFIC CONTACT RANGE ON PAGE 251)**

8467

8467-0-15-XX-21-XX-04-0

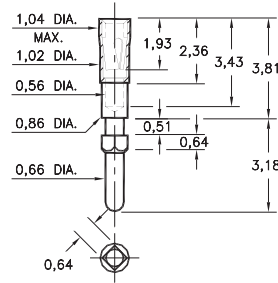
Hex press-fit in 0,91 plated through-hole



6192

6192-0-15-XX-21-XX-04-0

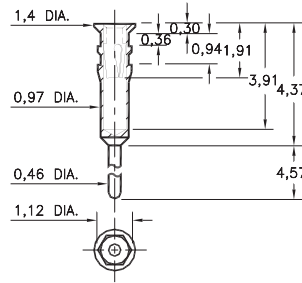
Square press-fit in 0,81 plated through-hole



9553

9553-0-15-XX-X1-XX-04-0

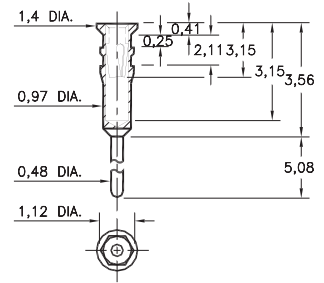
Hex press-fit in 1,04 plated through-hole



5531

5531-0-15-XX-21-XX-10-0

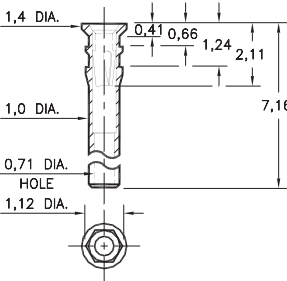
Hex press-fit in 1,04 plated through-hole



7553

7553-0-15-XX-11-XX-10-0

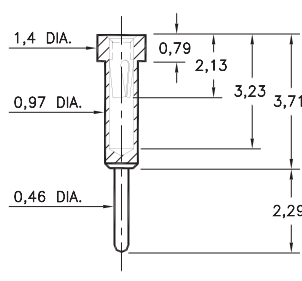
Hex press-fit in 1,04 plated through-hole



9407

9407-0-15-XX-11-XX-10-0

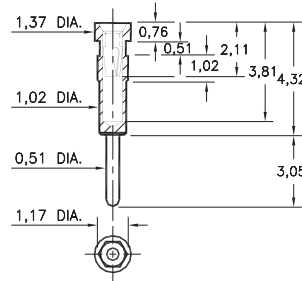
Solder mount in 1,02 min. mounting hole



9462

9462-0-15-XX-21-XX-04-0

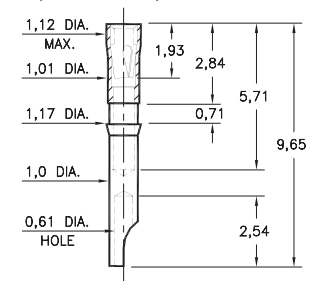
Hex press-fit in 1,09 plated through-hole



1147

1147-0-18-XX-21-XX-10-0

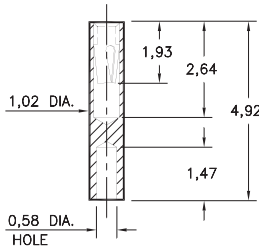
Press-fit in 1,09 min. mounting hole
Accepts wire sizes up to 0,36 dia.



3061

3061-0-19-XX-21-XX-10-0

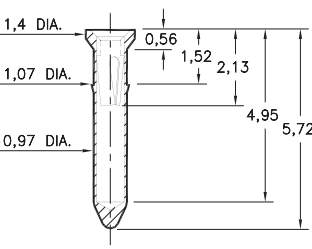
Wire Crimp Termination. Accepts wire sizes 28 AWG Max. / 32 AWG Min.



0579

0579-0-15-XX-X1-XX-10-0

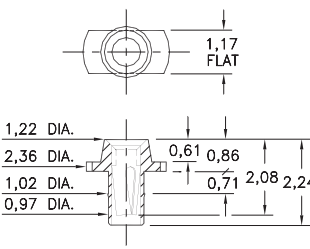
Press-fit in 1,02 mounting hole



8874

8874-0-15-XX-11-XX-10-0

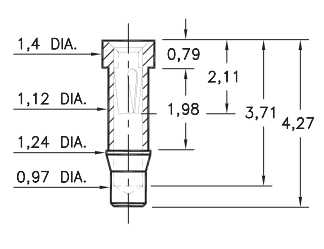
Bottom entry surface mount
See page 152 for application details



0613

0613-0-15-XX-21-XX-10-0

Press-fit in 1,19 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$

RoHS-2
2011/65/EU

ORDER CODE: XXXX - X - 1X - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

01 5,08 μ m TIN/LEAD OVER NICKEL

◆ **80** 5,08 μ m TIN OVER NICKEL (RoHS)

◆ **15** 0,25 μ m GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

02 2,54 μ m TIN/LEAD OVER NICKEL

◆ **84** 2,54 μ m TIN OVER NICKEL (RoHS)

◆ **27** 0,76 μ m GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#11 or #21 CONTACT (DATA ON PAGE 251)

(For alternate contact choices, see group A on page 248)



Mill-Max Mfg. Corp. • 190 Pine Hollow Road, P.O. Box 300, Oyster Bay, NY 11771 • 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com

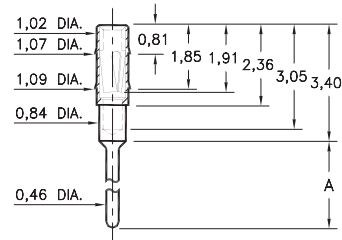
PIN RECEPTACLES

**FOR 0,38 - 0,51 DIAMETER PINS (#11 CONTACT)
AND 0,38 - 0,56 DIAMETER PINS (#05 & #21 CONTACTS)
(SEE SPECIFIC CONTACT RANGE ON PAGE 251)**

0489

0489-X-15-XX-11-XX-04-0

Press-fit in 1,04 mounting hole



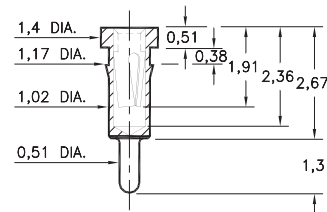
Basic Part Number	Length A
0489-0	2,59
0489-1	5,05
0489-2	7,59

0463

0463-0-15-XX-21-XX-04-0

Press-fit in 1,09 mounting hole.

Shell is Phosphor Bronze Alloy 544 (B2)

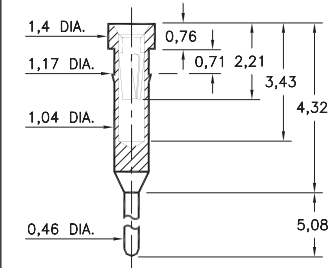


0466

0466-0-15-XX-21-XX-04-0

Press-fit in 1,09 mounting hole.

Shell is Phosphor Bronze Alloy 544 (B2)

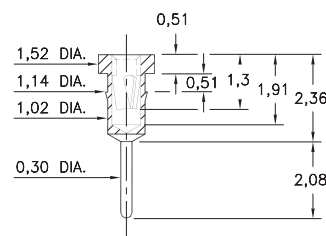


7491

7491-0-15-XX-09-XX-04-0

Press-fit in 1,07 mounting hole

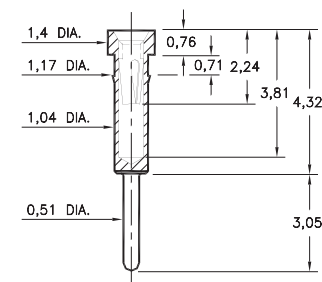
*Contact substitution not recommended



0462

0462-0-15-XX-X1-XX-04-0

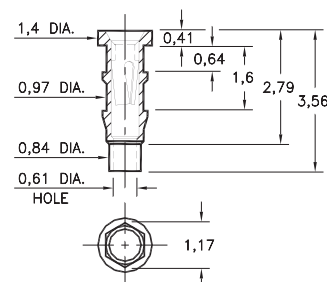
Press-fit in 1,09 mounting hole



0560

0560-0-15-XX-11-XX-10-0

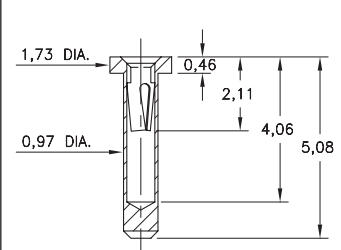
Hex press-fit in 1,09 plated through-hole



5552

5552-0-15-XX-05-XX-10-0

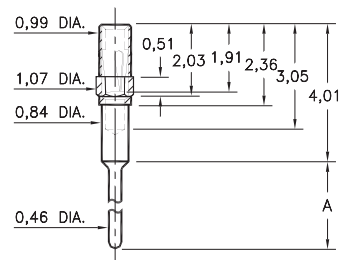
Solder mount in 1,02 min. mounting hole



4890

4890-X-15-XX-11-XX-04-0

Octagonal press-fit in 1,04 mounting hole

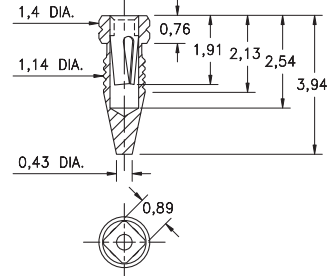


Basic Part Number	Length A
4890-0	2,59
4890-1	5,05
4890-2	7,59

4994

4994-0-15-15-11-27-10-0

Compliant press-fit in 1,04 - 1,12 dia. mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$

Diameters: $\pm 0,051$

Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 1X - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

01 5,08 μ m TIN/LEAD OVER NICKEL

80 5,08 μ m TIN OVER NICKEL (RoHS)

15 0,25 μ m GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

02 2,54 μ m TIN/LEAD OVER NICKEL

84 2,54 μ m TIN OVER NICKEL (RoHS)

27 0,76 μ m GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#05, #11 or #21 CONTACT (DATA ON PAGE 251)

(For alternate contact choices, see group A on page 248)



Mill-Max Mfg. Corp. • 190 Pine Hollow Road, P.O. Box 300, Oyster Bay, NY 11771 • 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com

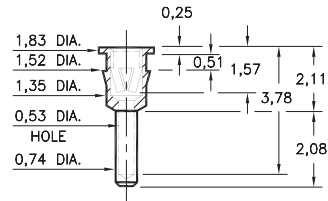
PIN RECEPTACLES

FOR 0,38 - 0,56 DIAMETER PINS

0512

0512-0-15-XX-12-XX-04-0

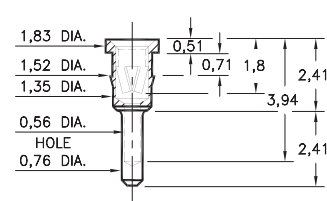
Press-fit in 1,45 mounting hole



0703

0703-0-15-XX-12-XX-04-0

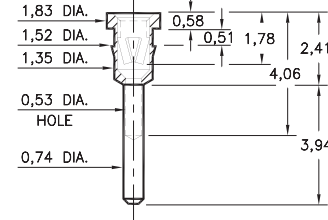
Press-fit in 1,45 mounting hole



0574

0574-0-15-XX-12-XX-04-0

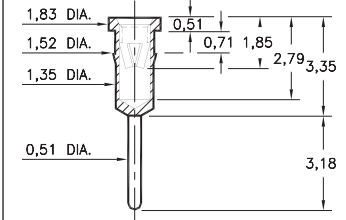
Press-fit in 1,45 mounting hole



0468 *

0468-0-15-XX-12-XX-04-0

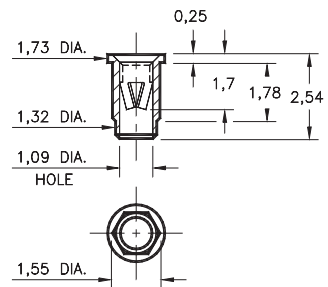
Press-fit in 1,45 mounting hole



8894 *

8894-0-15-XX-12-XX-10-0

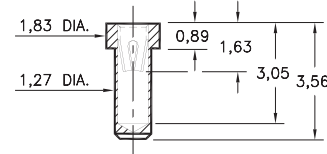
Hex press-fit in 1,5 plated through-hole



0550 *

0550-0-15-XX-22-XX-10-0

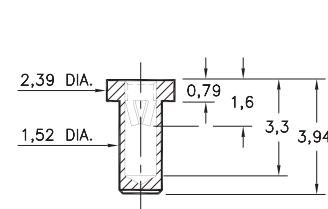
Solder mount in 1,32 min. mounting hole
Also available on 16mm wide carrier tape:
1,700 parts per 330mm reel
Order as: 0550-0-57-XX-22-XX-10-0



0671 *

0671-0-15-XX-12-XX-10-0

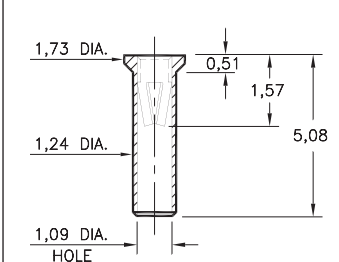
Solder mount in 1,6 min. mounting hole



0707 *

0707-0-15-XX-12-XX-10-0

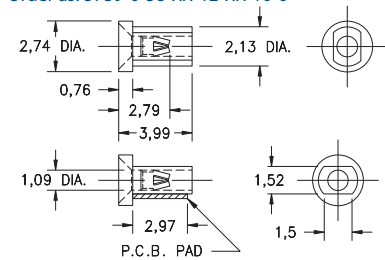
Solder mount in 1,3 min. mounting hole



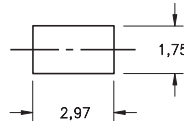
5739 *

5739-0-18-XX-12-XX-10-0

Surface mount
Also available on 16mm wide carrier tape:
3,000 parts per 330mm reel
Order as: 5739-0-58-XX-12-XX-10-0



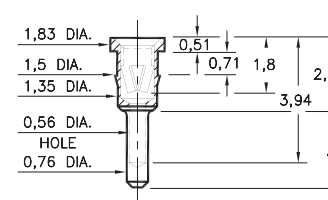
P.C.B. Layout



1534

1534-X-15-XX-12-XX-04-0

Press-fit in 1,42 mounting hole



Basic Part Number	Length A
1534-0	2,41
1534-1	3,18

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$

Diameters: $\pm 0,051$

Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 1X - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

01 5,08 μ m TIN/LEAD OVER NICKEL

◆ 80 5,08 μ m TIN OVER NICKEL (RoHS)

◆ 15 0,25 μ m GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

02 2,54 μ m TIN/LEAD OVER NICKEL

◆ 84 2,54 μ m TIN OVER NICKEL (RoHS)

◆ 27 0,76 μ m GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#12 or #22 CONTACT (DATA ON PAGE 252)

* (Contact may be interchanged with group B or C contact on page 248)



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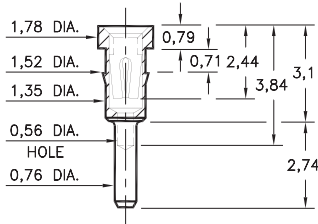
PIN RECEPTACLES

FOR 0,38 - 0,64 DIAMETER PINS

0501

0501-0-15-XX-30-XX-04-0

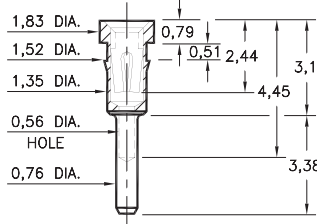
Press-fit in 1,45 mounting hole



8427

8427-0-15-XX-30-XX-04-0

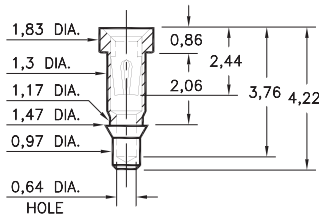
Press-fit in 1,45 mounting hole



1434

1434-0-15-XX-30-XX-10-0

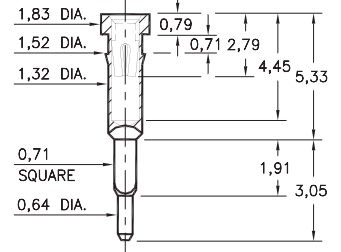
Press-fit in 1,4 mounting hole



9970

9970-0-15-XX-30-XX-04-0

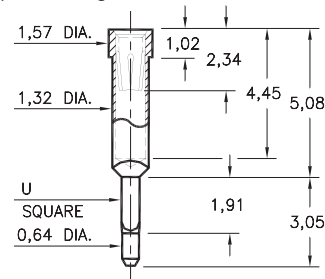
Square press-fit in 0,81 ± 0,05 plated through-hole



5970

5970-X-15-XX-32-XX-04-0

Square press-fit for 0,81 or 1,0 ± 0,05 plated through-hole

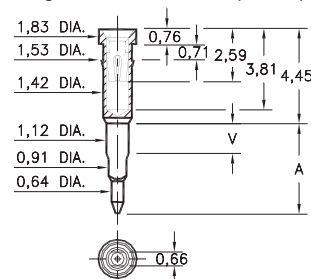


Basic Part Number	U Square	Mounting Hole
5970-1	0,71	0,81
5970-2	0,86	1,0

0477/0478

047X-0-18-XX-30-XX-04-0

Solderless press-fit in 0,97 +0,08 / -0,05 plated through-hole (use 1.1mm drill prior to plating)

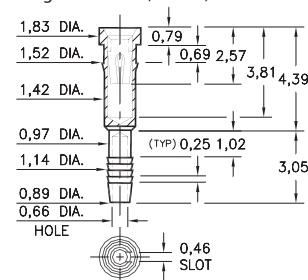


Basic Part Number	Board Thickness	Length V	Length A
0477-0	1,57	1,91	4,45
0478-0	3,18	3,56	6,35

4612

4612-0-31-XX-30-XX-04-0

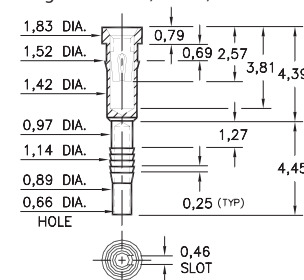
Compliant press-fit in 1,02 ± 0,08 plated through-hole. For 1,52 → 2,54 thick board



4613

4613-0-31-XX-30-XX-04-0

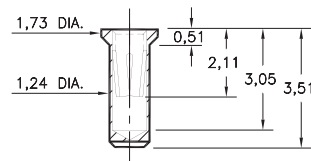
Compliant press-fit in 1,02 ± 0,08 plated through-hole. For 2,29 → 3,30 thick board



0680

0680-0-15-XX-32-XX-10-0

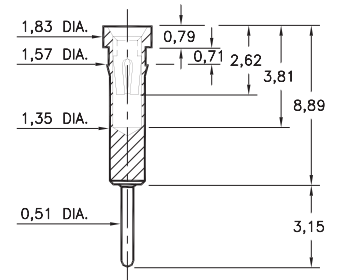
Solder mount in 1,3 min. mounting hole
Also available on 16mm wide carrier tape:
1,700 parts per 330mm reel
Order as: 0680-0-57-XX-32-XX-10-0



0149

0149-0-15-XX-30-XX-04-0

Press-fit in 1,5 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2°

RoHS-2
2011/65/EU

ORDER CODE: XXXX - X - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25μm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 02 2,54μm TIN/LEAD OVER NICKEL
- ◆ 84 2,54μm TIN OVER NICKEL (RoHS)
- ◆ 27 0,76μm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#30 or #32 CONTACT (DATA ON PAGE 253)

(For alternate contact choices, see groups B and C on page 248)



Mill-Max Mfg. Corp. • 190 Pine Hollow Road, P.O. Box 300, Oyster Bay, NY 11771 • 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com

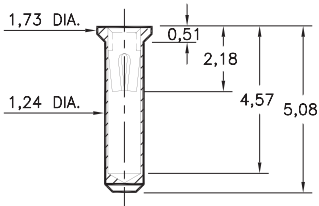
PIN RECEPTACLES

FOR 0,38 - 0,64 DIAMETER PINS

0660

0660-0-15-XX-30-XX-10-0

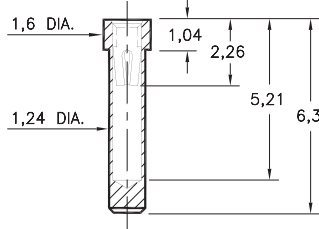
Solder mount in 1,3 min. mounting hole



0677

0677-0-15-XX-30-XX-10-0

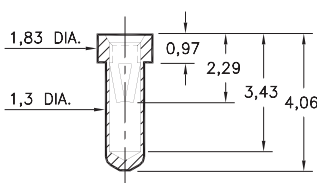
Solder mount in 1,3 min. mounting hole



0555

0555-0-15-XX-32-XX-10-0

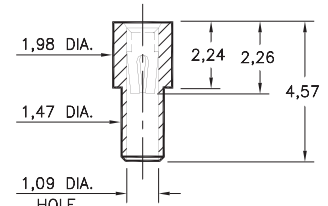
Solder mount in 1,35 min. mounting hole
Also available on 16mm wide carrier tape:
1,800 parts per 330mm reel
Order as: 0555-0-57-XX-32-XX-10-0



0558

0558-0-15-XX-30-XX-10-0

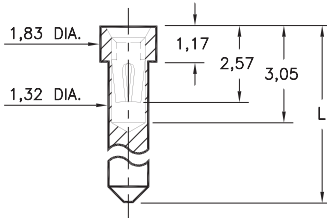
Solder mount in 1,55 min. mounting hole



0675/0679

067X-0-15-XX-30-XX-10-0

Solder mount in 1,37 min. mounting hole

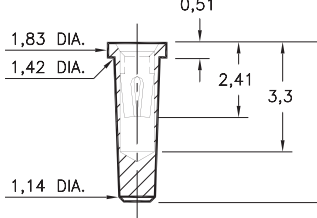


Basic Part Number	Length L
0675-0	3,68
0679-0	5,16

1065/1066/7065

X06X-0-15-XX-30-XX-10-0

Solder mount in 1,4 min. mounting hole

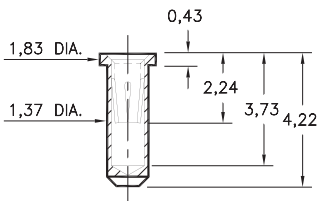


Basic Part Number	Length L
1065-0	4,83
1066-0	4,06
7065-0	4,6

0682

0682-0-15-XX-32-XX-10-0

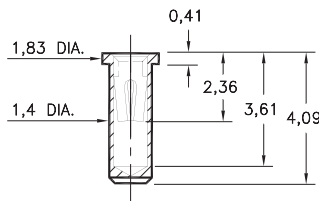
Solder mount in 1,42 min. mounting hole
Also available on 16mm wide carrier tape:
1,500 parts per 330mm reel
Order as: 0682-0-57-XX-32-XX-10-0



0667

0667-0-15-XX-30-XX-10-0

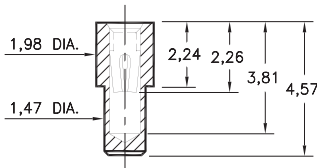
Solder mount in 1,45 min. mounting hole
Also available on 16mm wide carrier tape:
1,700 parts per 330mm reel
Order as: 0667-0-57-XX-30-XX-10-0



0665

0665-0-15-XX-30-XX-10-0

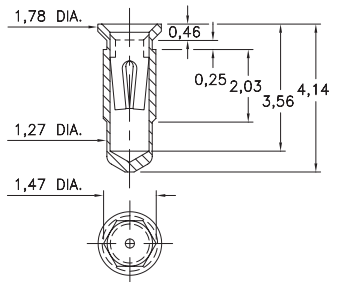
Solder mount in 1,55 min. mounting hole



4286

4286-0-15-XX-30-XX-10-0

Hex press-fit in 1,4 plated through-hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 15 - XX - XX - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25μm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 02 2,54μm TIN/LEAD OVER NICKEL
- ◆ 84 2,54μm TIN OVER NICKEL (RoHS)
- ◆ 27 0,76μm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#30 or #32 CONTACT (DATA ON PAGE 253)

(For alternate contact choices, see groups B and C on page 248)



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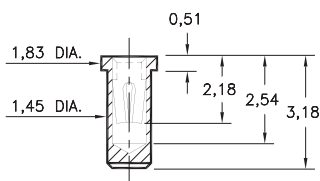
PIN RECEPTACLES

FOR 0,38 - 0,64 DIAMETER PINS

0669

0669-0-15-XX-30-XX-10-0

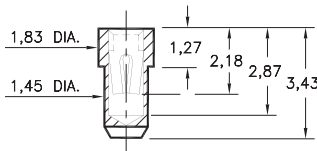
Solder mount in 1,52 min. mounting hole
Also available on 16mm wide carrier tape:
1,700 parts per 330mm reel
Order as: 0669-0-57-XX-30-XX-10-0



0670

0670-0-15-XX-30-XX-10-0

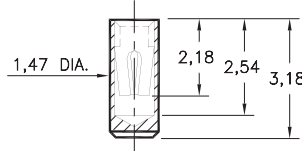
Solder mount in 1,52 min. mounting hole



0673

0673-0-15-XX-30-XX-10-0

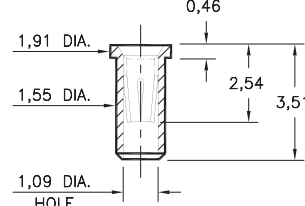
Surface mount



0666

0666-0-15-XX-32-XX-10-0

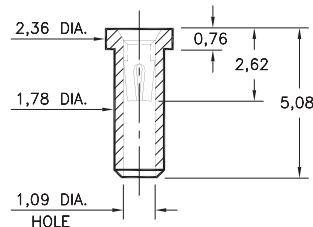
Solder mount in 1,63 min. mounting hole
Also available on 24mm wide carrier tape:
1,500 parts per 330mm reel
Order as: 0666-0-57-XX-32-XX-10-0



0341

0341-0-15-XX-30-XX-10-0

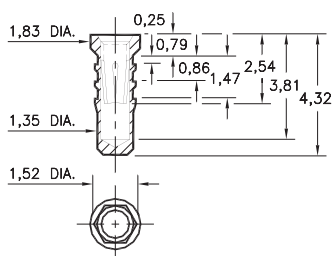
Solder mount in 1,85 mounting hole
Also available on 12mm wide carrier tape:
1,400 parts per 330mm reel
Order as: 0341-0-57-XX-30-XX-10-0



0252

0252-0-15-XX-32-XX-10-0

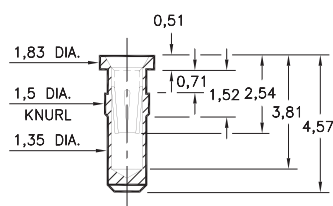
Hex press-fit in 1,45 plated through-hole



0678

0678-0-15-XX-32-XX-10-0

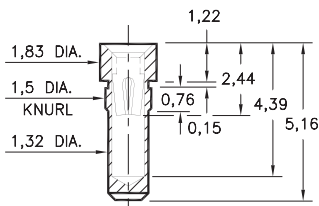
Press-fit in 1,45 mounting hole



0676

0676-0-15-XX-30-XX-10-0

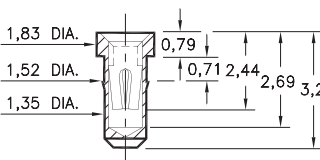
Press-fit in 1,45 mounting hole



0697

0697-0-15-XX-30-XX-10-0

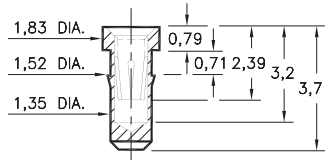
Press-fit in 1,45 mounting hole



0668

0668-0-15-XX-30-XX-10-0

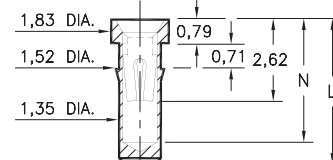
Press-fit in 1,45 mounting hole



0253/1033

XXX3-0-15-XX-30-XX-10-0

Press-fit in 1,45 mounting hole



Basic Part Number	Length L	Depth N
0253-0	4,39	3,76
1033-0	5,16	4,11

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 15 - XX - XX - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25μm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 02 2,54μm TIN/LEAD OVER NICKEL
- ◆ 84 2,54μm TIN OVER NICKEL (RoHS)
- ◆ 27 0,76μm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#30 or #32 CONTACT (DATA ON PAGE 253)

(For alternate contact choices, see groups B and C on page 248)



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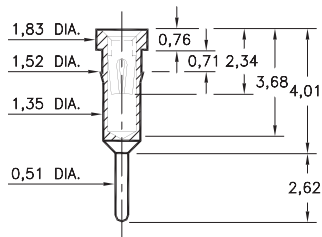
PIN RECEPTACLES

FOR 0,38 - 0,64 DIAMETER PINS

4011

4011-0-15-XX-30-XX-04-0

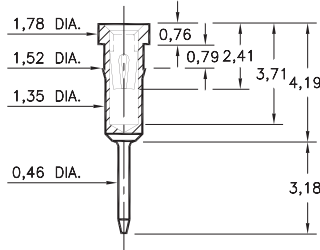
Press-fit in 1,45 mounting hole



1801

1801-0-15-XX-30-XX-04-0

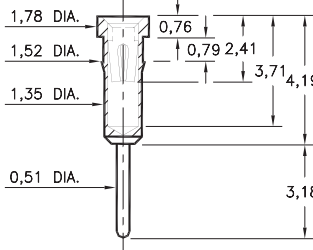
Press-fit in 1,45 mounting hole.
Shell is Phosphor Bronze Alloy 544 (B2)



1001

1001-0-15-XX-3X-XX-04-0

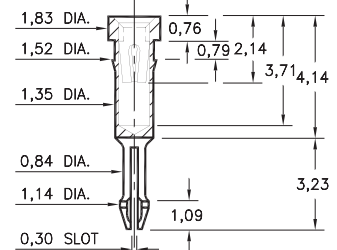
Press-fit in 1,45 mounting hole



0156

0156-0-18-XX-30-XX-04-0

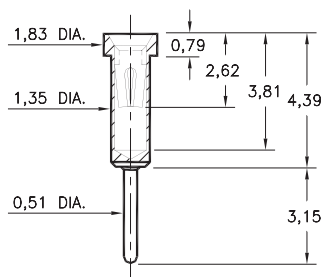
Self-retention socket pin 0,97 - 1,09 hole prior to soldering



0255

0255-0-15-XX-30-XX-04-0

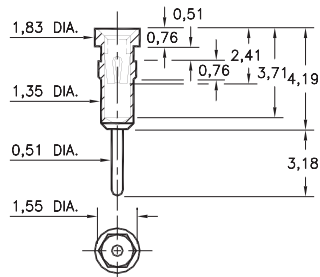
Solder mount in 0,56 min. mounting hole



1109

1109-0-15-XX-30-XX-04-0

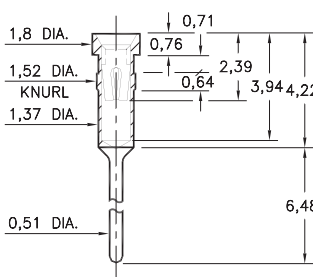
Hex press-fit in 1,45 plated through-hole



3013

3013-0-15-XX-32-XX-04-0

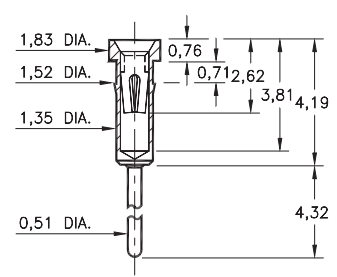
Press-fit in 1,45 mounting hole



0134

0134-0-15-XX-3X-XX-04-0

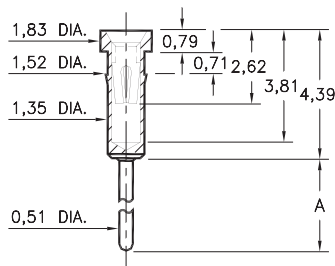
Press-fit in 1,45 mounting hole



0132/0135

013X-0-15-XX-30-XX-04-0

Press-fit in 1,45 mounting hole

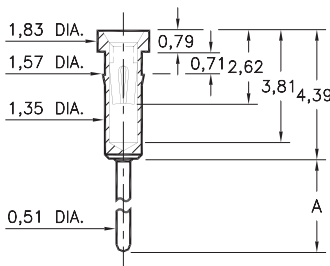


Basic Part Number	Length A
0132-0	6,93
0135-0	4,65

0133/0147

01XX-0-15-XX-30-XX-04-0

Press-fit in 1,5 mounting hole



Basic Part Number	Length A
0133-0	9,7
0147-0	14,3

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$

Diameters: $\pm 0,051$

Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 15 - XX - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25μm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 02 2,54μm TIN/LEAD OVER NICKEL
- ◆ 84 2,54μm TIN OVER NICKEL (RoHS)
- ◆ 27 0,76μm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#30 or #32 CONTACT (DATA ON PAGE 253)

(For alternate contact choices, see groups B and C on page 248)



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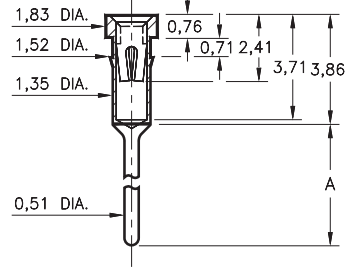
PIN RECEPTACLES

FOR 0,38 - 0,64 DIAMETER PINS

1005/1013/8898

XXXX-0-15-XX-3X-XX-04-0

Press-fit in 1,45 mounting hole
Annealed brass shell for auto-clinching *



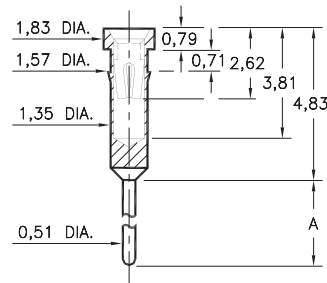
Basic Part Number	Length A
1005-0	3,51
1013-0	4,19
8898-0	5,69

* NOTE: 8898 is not annealed & not suitable for auto-clinching

0145/0146

014X-0-15-XX-30-XX-04-0

Press-fit in 1,5 mounting hole

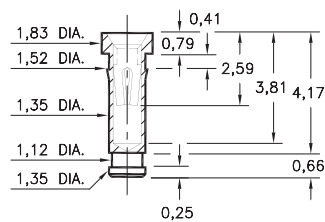


Basic Part Number	Length A
0145-0	7,62
0146-0	10,41

4378

4378-0-15-XX-30-XX-10-0

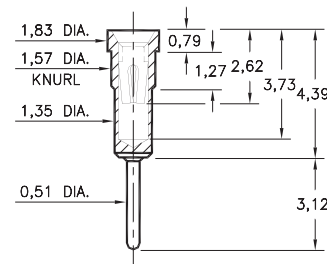
Press-fit in 1,45 mounting hole



0556

0556-0-15-XX-30-XX-04-0

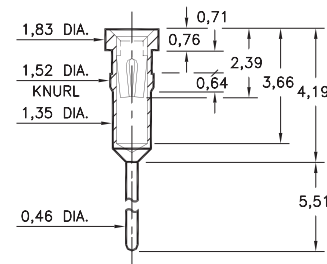
Press-fit in 1,5 mounting hole



1103

1103-0-15-XX-30-XX-04-0

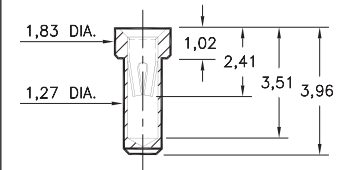
Press-fit in 1,45 mounting hole



9234

9234-0-15-XX-30-XX-10-0

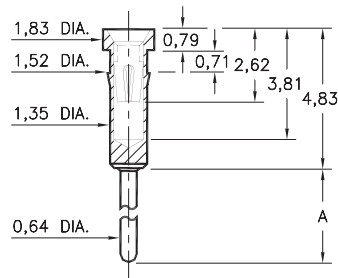
Solder mount in 1,32 min. mounting hole



0136/37/38/39/41/48/52

01XX-0-15-XX-30-XX-04-0

Press-fit in 1,45 mounting hole

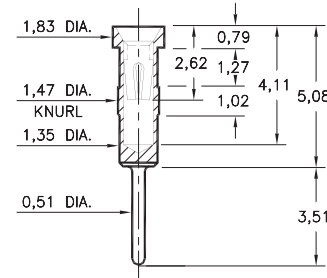


Basic Part Number	Length A
0136-0	30,86
0137-0	14,22
0138-0	5,33
0139-0	16,13
0141-0	17,78
0148-0	11,56
0152-0	10,41

0447

0447-0-15-XX-30-XX-04-0

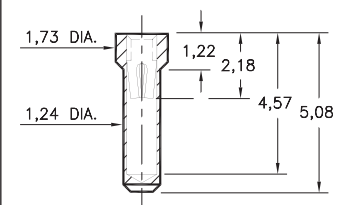
Press-fit in 1,42 mounting hole



5660

5660-0-15-XX-30-XX-10-0

Solder mount in 1,3 min. mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 15 - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 5,08µm TIN/LEAD OVER NICKEL
- ◆ 80 5,08µm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 02 2,54µm TIN/LEAD OVER NICKEL
- ◆ 84 2,54µm TIN OVER NICKEL (RoHS)
- ◆ 27 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#30 or #32 CONTACT (DATA ON PAGE 253)

(For alternate contact choices, see groups B and C on page 248)



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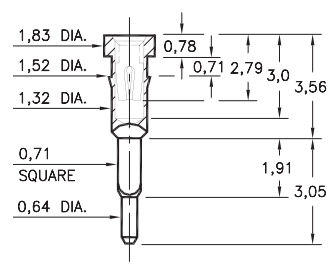
PIN RECEPTACLES

FOR 0,38 - 0,64 DIAMETER PINS

7132

7132-0-15-XX-30-XX-04-0

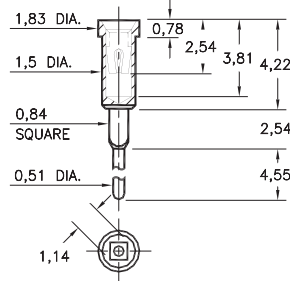
Square press-fit for $0,81 \pm 0,05$
plated through-hole



8445

8445-0-15-XX-30-XX-04-0

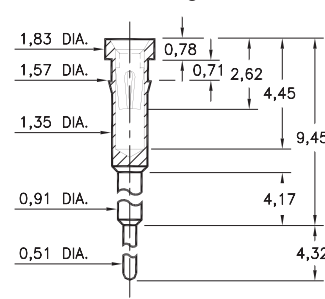
Square press-fit for $0,99 \pm 0,05$
plated through-hole



1038

1038-0-15-XX-30-XX-04-0

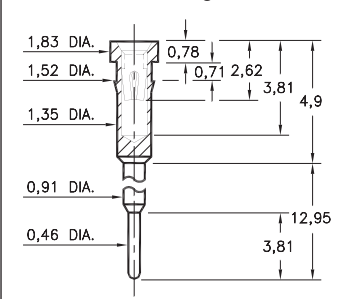
Press-fit in 1,5 mounting hole



1261

1261-0-15-XX-30-XX-04-0

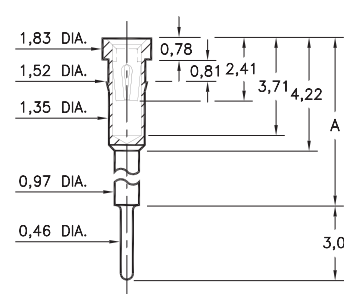
Press-fit in 1,45 mounting hole



0153

0153-X-15-XX-30-XX-04-0

Press-fit in 1,45 mounting hole

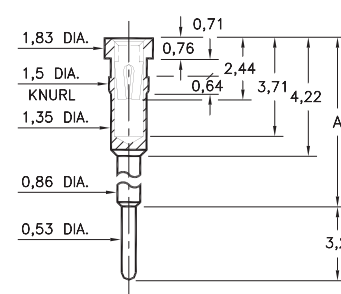


Basic Part Number	Height A
0153-1	5,99
0153-2	8,0
0153-3	10,21
0153-4	11,99
0153-5	15,09
0153-6	17,75

1602/1610

16XX-0-15-XX-30-XX-04-0

Press-fit in 1,45 mounting hole

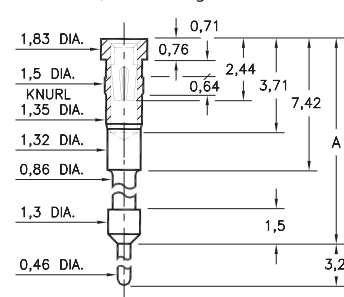


Basic Part Number	Height A
1602-0	11,2
1610-0	16,31

0903/0904

090X-0-15-XX-30-XX-04-0

Press-fit in 1,45 mounting hole

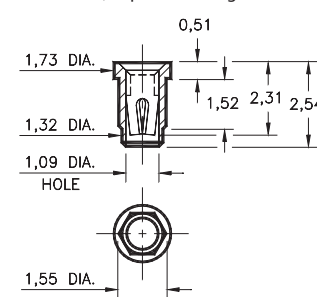


Basic Part Number	Height A
0903-0	21,36
0904-0	28,98

8252

8252-0-15-XX-30-XX-10-0

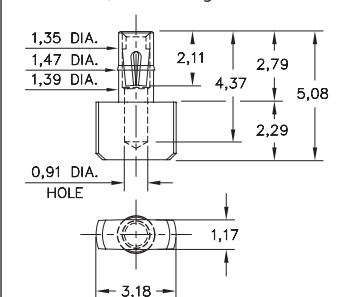
Press-fit in 1,45 plated through-hole



4078

4078-0-15-XX-30-XX-40-0

Press-fit in 1,45 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$

Diameters: $\pm 0,051$

Angles: $\pm 2^\circ$



ORDER CODE: **XXXX - X - 15 - XX - 30 - XX - XX - 0**

BASIC PART #

SPECIFY SHELL FINISH:

01 5,08μm TIN/LEAD OVER NICKEL

◆ 80 5,08μm TIN OVER NICKEL (RoHS)

◆ 15 0,25μm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

02 2,54μm TIN/LEAD OVER NICKEL

◆ 84 2,54μm TIN OVER NICKEL (RoHS)

◆ 27 0,76μm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#30 CONTACT (DATA ON PAGE 253)

(For alternate contact choices, see groups B and C on page 248)



Mill-Max Mfg. Corp. • 190 Pine Hollow Road, P.O. Box 300, Oyster Bay, NY 11771 • 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com

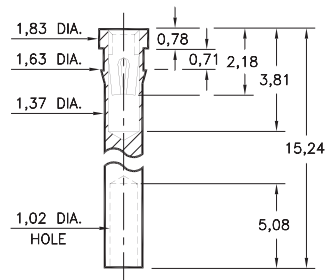
PIN RECEPTACLES

FOR 0,38 - 0,64 DIAMETER PINS

1707

1707-0-19-XX-30-XX-10-0

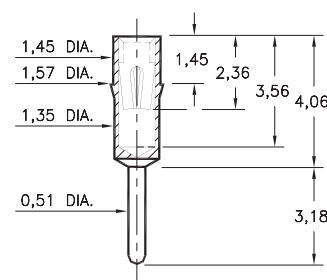
Press-fit in 1,55 mounting hole



0240

0240-0-15-XX-30-XX-04-0

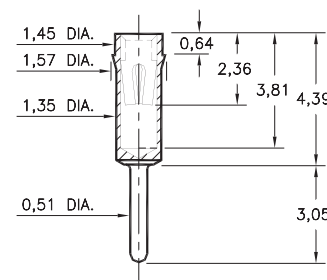
Press-fit in 1,49 mounting hole



0307

0307-0-15-XX-30-XX-04-0

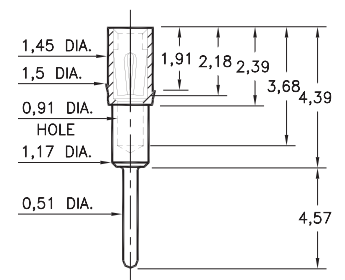
Press-fit in 1,5 mounting hole



1753

1753-0-15-XX-30-XX-04-0

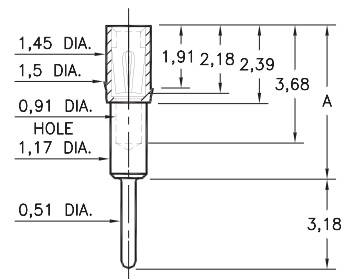
Press-fit in 1,45 mounting hole



1705/1706/1762

17XX-0-15-XX-3X-XX-04-0

Press-fit in 1,45 mounting hole

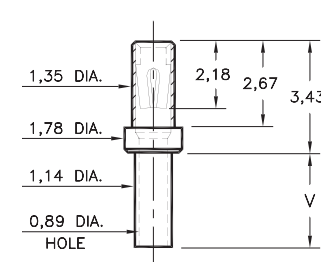


Basic Part Number	Height A
1705-0	4,19
1706-0	5,54
1762-0	7,62

0672

0672-X-15-XX-30-XX-10-0

Swage mount in 1,24 hole

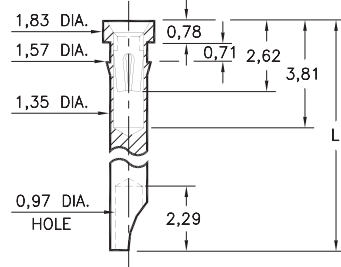


Basic Part Number	Board Thickness	Length V
0672-1	0,79	1,32
0672-2	1,57	2,13
0672-3	2,39	2,92
0672-4	3,18	3,71

1024/1104

1XX4-0-18-XX-30-XX-10-0

Press-fit in 1,5 mounting hole
Accepts wire sizes up to 0,71 dia.

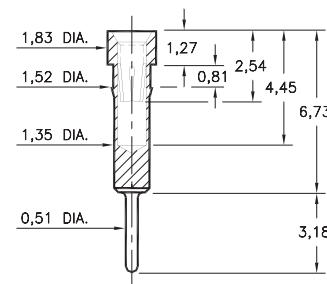


Basic Part Number	Length L
1024-0	7,37
1104-0	11,43

0498

0498-0-15-XX-35-XX-04-0

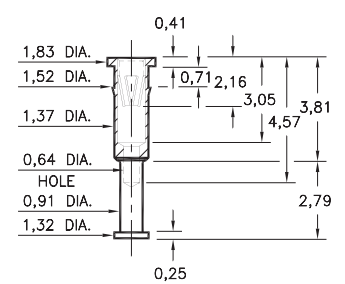
Press-fit in 1,45 mounting hole



8131

8131-0-15-XX-30-XX-10-0

Press-fit in 1,45 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$

RoHS-2
2011/65/EU

ORDER CODE: XXXX - X - 1X - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 5,08µm TIN/LEAD OVER NICKEL
- ◆ 80 5,08µm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 02 2,54µm TIN/LEAD OVER NICKEL
- ◆ 84 2,54µm TIN OVER NICKEL (RoHS)
- ◆ 27 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#30 or #35 CONTACT (DATA ON PAGE 253 & 254)

(For alternate contact choices, see groups B and C on page 248)



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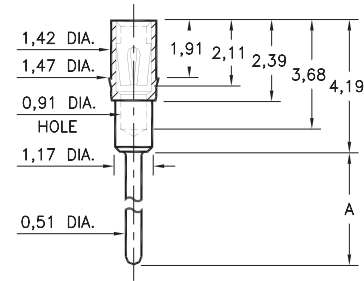
PIN RECEPTACLES

FOR 0,38 - 0,64 DIAMETER PINS

1802/3802/4030/8866

XXXX-0-15-XX-43-XX-04-0

Press-fit in 1,45 mounting hole

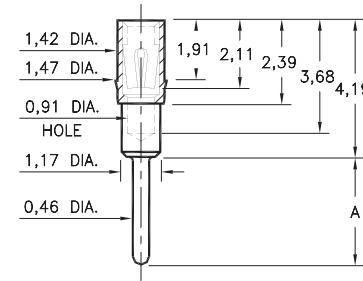


Basic Part Number	Length A
1802-0	3,18
3802-0	4,19
8866-0	19,69
4030-0	20,70

1803/1805/1808/3805

XXXX-0-15-XX-XX-XX-04-0

Press-fit in 1,45 mounting hole

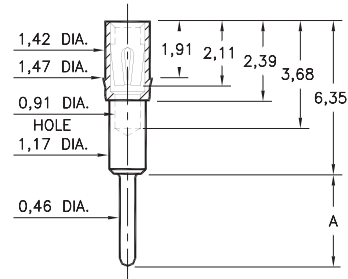


Basic Part Number	Length A
1808-0	2,54
1803-0	3,68
1805-0	5,41
3805-0	9,98

1804/1806

180X-0-15-XX-43-XX-04-0

Press-fit in 1,45 mounting hole

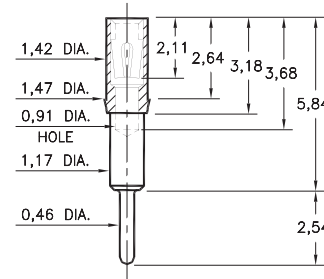


Basic Part Number	Length A
1804-0	2,03
1806-0	2,92

1807

1807-0-15-XX-43-XX-04-0

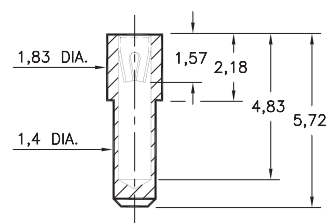
Press-fit in 1,45 mounting hole



8830

8830-15-XX-22-XX-10-0

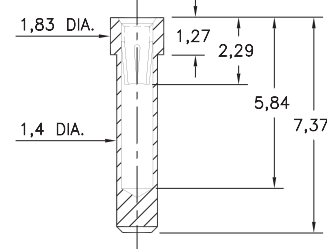
Solder mount in 1,45 min. mounting hole



8363

8363-0-15-XX-35-XX-10-0

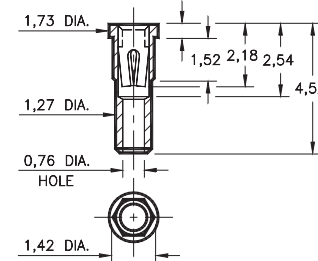
Solder mount in 1,45 min. mounting hole



4622

4622-0-15-XX-30-XX-10-0

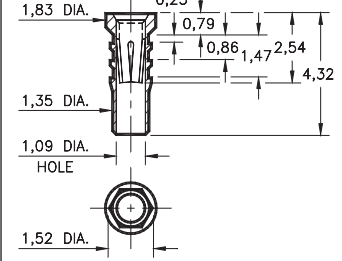
Hex press-fit in 1,35 plated through-hole



6252

6252-0-15-XX-32-XX-10-0

Hex press-fit in 1,45 plated through-hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$

Diameters: $\pm 0,051$

Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 15 - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

01 5,08 μ m TIN/LEAD OVER NICKEL

◆ 80 5,08 μ m TIN OVER NICKEL (RoHS)

◆ 15 0,25 μ m GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

02 2,54 μ m TIN/LEAD OVER NICKEL

◆ 84 2,54 μ m TIN OVER NICKEL (RoHS)

◆ 27 0,76 μ m GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#22, #30, #32 or #43 CONTACT (DATA ON PAGES 252, 253 & 254)

(For alternate contact choices, see groups B and C on page 248)



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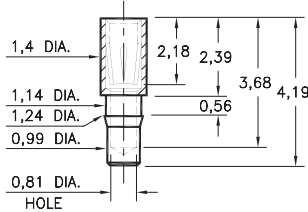
PIN RECEPTACLES

FOR 0,38 - 0,64 DIAMETER PINS

0385

0385-0-15-XX-43-XX-10-0

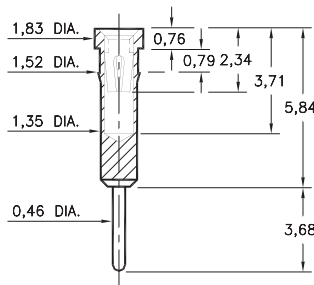
Press-fit in 1,17 mounting hole



4001

4001-0-15-XX-43-XX-04-0

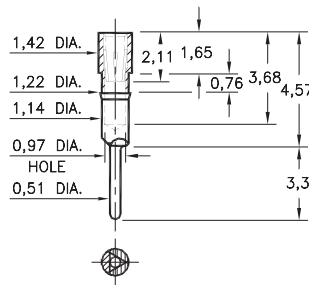
Press-fit in 1,45 mounting hole



1782

1782-0-15-XX-43-XX-04-0

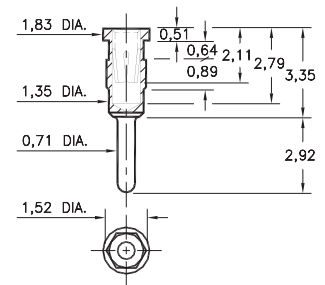
Press-fit in 1,14 mounting hole



5960

5960-0-15-XX-43-XX-04-0

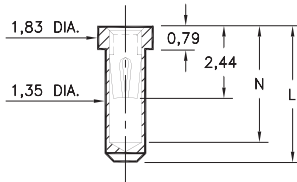
Hex press-fit in 1,45 plated through-hole



1401/3185

XXXX-0-15-XX-30-XX-10-0

Solder mount in 1,4 min. mounting hole
Also available on 16mm wide carrier tape:
1,700 parts per 330mm reel
Order as: XXXX-0-57-XX-30-XX-10-0

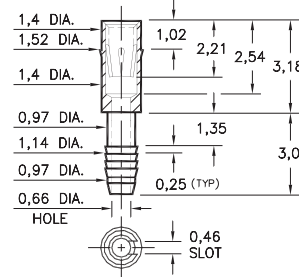


Basic Part Number	Length L	Depth N
1401-0	4,19	3,68
3185-0	3,30	2,77

4310

4310-0-31-XX-43-XX-04-0

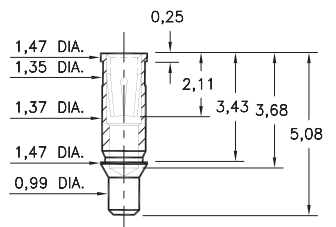
Compliant press-fit in 1,02 ± 0,08 plated through-hole. For 2,29 → 3,30 thick board



1385

1385-0-15-XX-43-XX-10-0

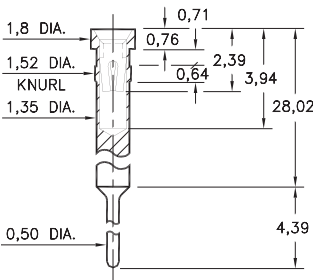
Surface mount



3018

3018-0-15-XX-30-XX-04-0

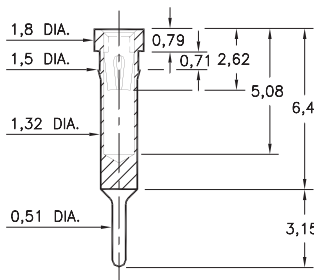
Press-fit in 1,45 mounting hole



8852

8852-0-15-XX-30-XX-04-0

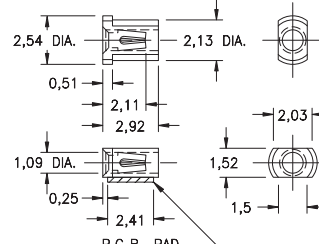
Press-fit in 1,42 mounting hole



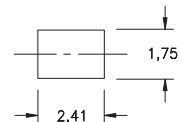
3907

3907-0-18-XX-30-XX-10-0

Surface mount
Also available on 12mm wide carrier tape:
4,000 parts per 330mm reel
Order as: 3907-0-58-XX-30-XX-10-0



P.C.B. Layout



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 5,08µm TIN/LEAD OVER NICKEL
- ◆ 80 5,08µm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 02 2,54µm TIN/LEAD OVER NICKEL
- ◆ 84 2,54µm TIN OVER NICKEL (RoHS)
- ◆ 27 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#30, #35 or #43 CONTACT (DATA ON PAGE 253 & 254)
(For alternate contact choices, see groups B and C on page 248)



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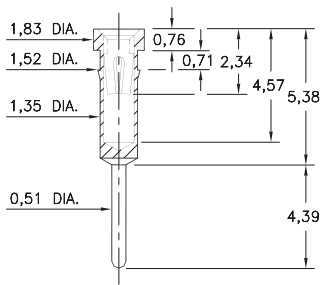
PIN RECEPTACLES

FOR 0,38 - 0,64 DIAMETER PINS

8964

8964-0-15-XX-30-XX-04-0

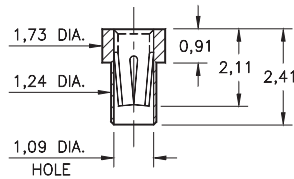
Press-fit in 1,45 mounting hole



5342

5342-0-15-XX-35-XX-10-0

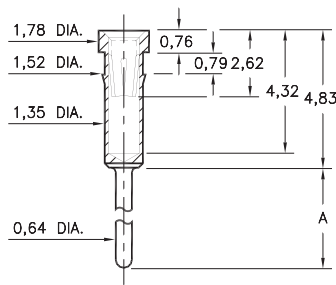
Solder mount in 1,3 min. mounting hole
Also available on 8mm wide carrier tape:
6,000 parts per 330mm reel
Order as: 5342-0-57-XX-35-XX-10-0



8857

8857-X-15-XX-32-XX-04-0

Press-fit in 1,45 mounting hole

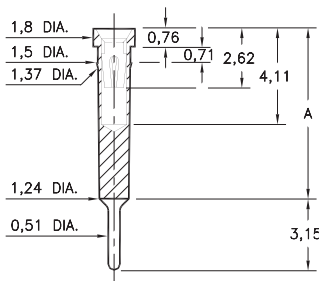


Basic Part Number	Length A
8857-0	7,9
8857-1	11,38
8857-2	14,96
8857-3	18,57
8857-4	22,12

8862/8877

88XX-0-15-XX-30-XX-04-0

Press-fit in 1,42 mounting hole

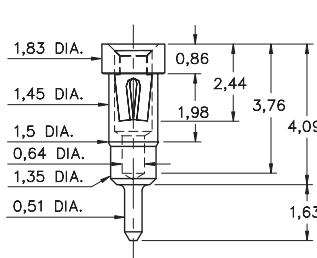


Basic Part Number	Length A
8862-0	7,62
8877-0	8,89

1334

1334-0-15-XX-30-XX-04-0

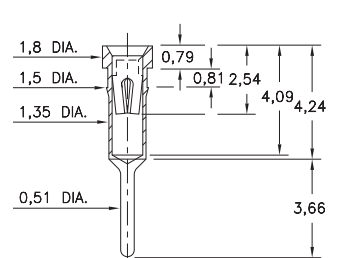
Press-fit in 1,45 mounting hole



8855

8855-0-15-XX-30-XX-34-0

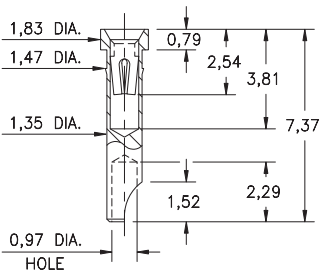
Press-fit in 1,45 mounting hole



2954

2954-0-18-XX-30-XX-10-0

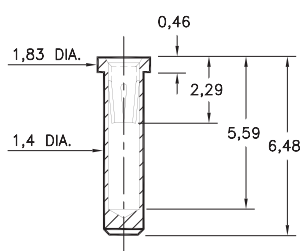
Press-fit in 1,45 mounting hole
Accepts wire sizes up to 0,71 dia.



9363

9363-0-15-XX-35-XX-10-0

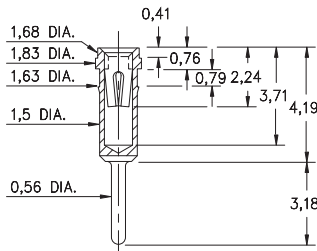
Solder mount in 1,45 min. mounting hole



1023

1023-0-15-XX-30-XX-04-0

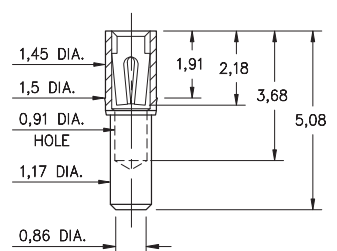
Press-fit in 1,55 mounting hole



1701

1701-0-15-XX-30-XX-10-0

Press-fit in 1,45 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$

Diameters: $\pm 0,051$

Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 1X - XX - XX - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 5,08 μ m TIN/LEAD OVER NICKEL
- ◆ 80 5,08 μ m TIN OVER NICKEL (RoHS)
- ◆ 15 0,25 μ m GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 02 2,54 μ m TIN/LEAD OVER NICKEL
- ◆ 84 2,54 μ m TIN OVER NICKEL (RoHS)
- ◆ 27 0,76 μ m GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#30, #32 or #35 CONTACT (DATA ON PAGE 253 & 254)
(For alternate contact choices, see groups B and C on page 248)



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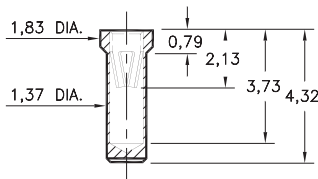
PIN RECEPTACLES

FOR 0,51 - 0,81 DIAMETER PINS

0338

0338-0-15-XX-15-XX-10-0

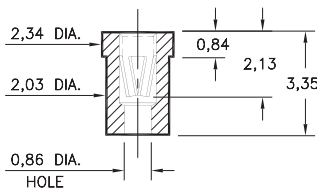
Solder mount in 1,45 min. mounting hole
Also available on 12mm wide carrier tape:
1,700 parts per 330mm reel
Order as: 0338-0-57-XX-15-XX-10-0



0378

0378-0-15-XX-15-XX-10-0

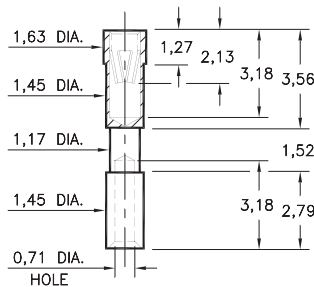
Solder mount in 2,08 min. mounting hole



6002

6002-0-19-XX-15-XX-10-0

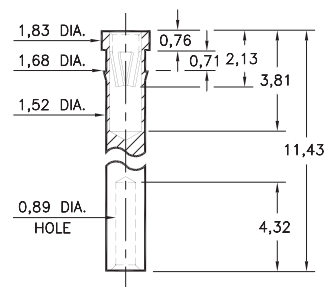
Solder mount in 1,5 min. mounting hole



7009

7009-0-19-XX-15-XX-10-0

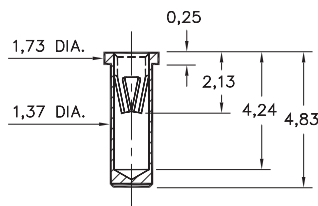
Press-fit in 1,6 mounting hole



0339

0339-0-15-XX-15-XX-10-0

Solder mount in 1,45 min. mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 1X - XX - 15 - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25μm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 27 0,76μm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#15 CONTACT (DATA ON PAGE 254)

(For alternate contact choices, see group K on page 248)



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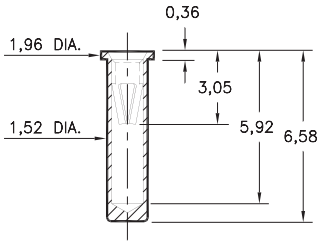
PIN RECEPTACLES

FOR 0,56 - 0,81 DIAMETER PINS

0295

0295-0-15-XX-06-XX-10-0

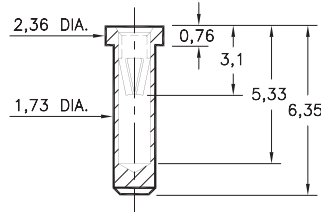
Solder mount in 1,60 min. mounting hole
Also available on 24mm wide carrier tape:
1,000 parts per 330mm reel
Order as: 0295-0-57-XX-06-XX-10-0



0292

0292-0-15-XX-06-XX-10-0

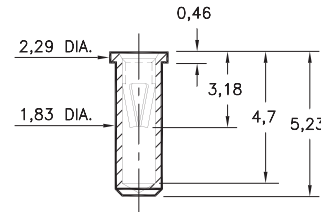
Solder mount in 1,8 min. mounting hole



0294

0294-0-15-XX-06-XX-10-0

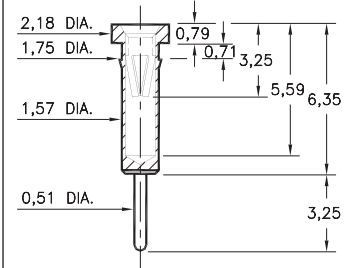
Solder mount in 1,93 min. mounting hole



0398

0398-0-15-XX-06-XX-04-0

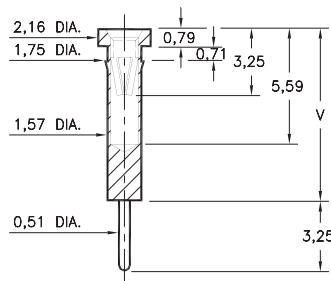
Press-fit in 1,68 mounting hole



0397

0397-X-15-XX-06-XX-04-0

Press-fit in 1,68 mounting hole

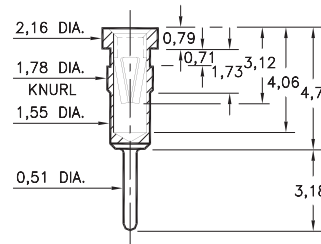


Basic Part Number	Length V
0397-0	8,97
0397-1	8,46
0397-2	10,49

0297

0297-0-15-XX-06-XX-04-0

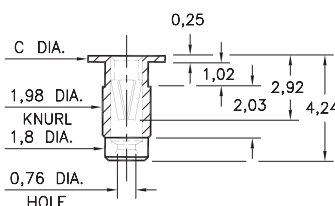
Press-fit in 1,7 mounting hole



9019/9039

90X9-0-19-XX-06-XX-10-0

Press-fit in 1,91 mounting hole



Basic Part Number	Head Dia. C
9019-0	3,18
9039-0	2,54

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$

Diameters: $\pm 0,051$

Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 1X - XX - 06 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 5,08µm TIN/LEAD OVER NICKEL
- ◆ 80 5,08µm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 5,08µm TIN/LEAD OVER NICKEL
- ◆ 80 5,08µm TIN OVER NICKEL (RoHS)
- ◆ 27 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#06 CONTACT (DATA ON PAGE 255)

(For alternate contact choices, see group D on page 248)



Mill-Max Mfg. Corp. • 190 Pine Hollow Road, P.O. Box 300, Oyster Bay, NY 11771 • 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com

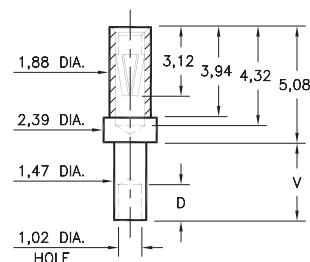
PIN RECEPTACLES

FOR 0,56 - 0,81 DIAMETER PINS

0326

0326-X-19-XX-06-XX-10-0

Swage mount in 1,52 hole

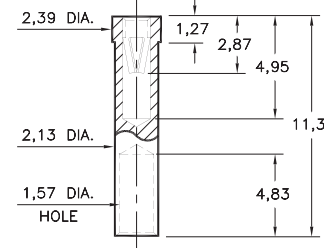


Basic Part Number	Board Thickness	Length V	Depth D
0326-1	0,79	1,57	1,02
0326-2	1,57	2,39	1,57
0326-3	2,39	3,18	1,57
0326-4	3,18	3,96	1,57

5295

5295-0-19-XX-06-XX-10-0

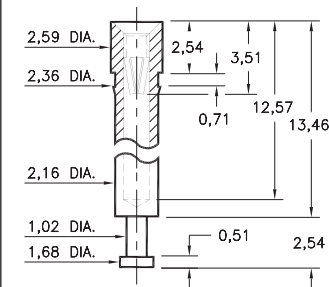
Solder mount in 2,18 min. mounting hole
Wire Crimp Termination. Accepts wire sizes 18AWG Max. / 22 AWG Min.



0396

0396-0-15-XX-06-XX-10-0

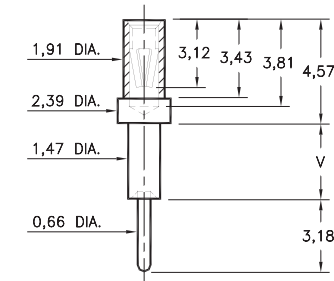
Press-fit in 2,29 mounting hole



0298

0298-X-15-XX-06-XX-10-0

Swage mount in 1,52 hole

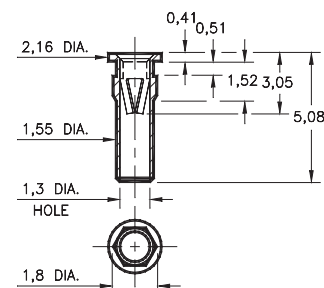


Basic Part Number	Board Thickness	Length V
0298-1	0,79	1,3
0298-2	1,57	2,08
0298-3	2,39	2,87
0298-4	3,18	3,68

9293

9293-0-15-XX-06-XX-04-0

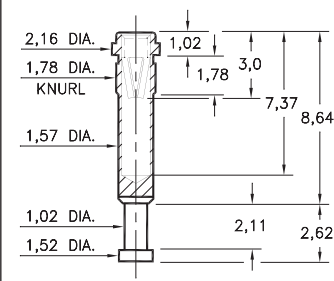
Hex press-fit in 1,7 plated through-hole



8864

8864-0-15-XX-06-XX-10-0

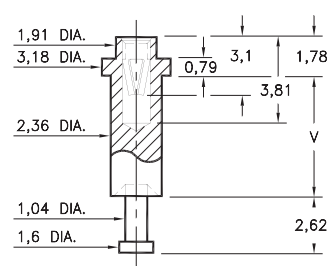
Press-fit in 1,7 mounting hole



0664

0664-X-15-XX-06-XX-10-0

Swage mount in 2,44 hole



Basic Part Number	Board Thickness	Length V
0664-1	2,39	3,18
0664-2	3,18	3,96
0664-3	4,78	5,56

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 1X - XX - 06 - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 5,08µm TIN/LEAD OVER NICKEL
- ◆ 80 5,08µm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 5,04µm TIN/LEAD OVER NICKEL
- ◆ 80 5,04µm TIN OVER NICKEL (RoHS)
- ◆ 27 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#06 CONTACT (DATA ON PAGE 255)

(For alternate contact choices, see group D on page 248)



Mill-Max Mfg. Corp. • 190 Pine Hollow Road, P.O. Box 300, Oyster Bay, NY 11771 • 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com

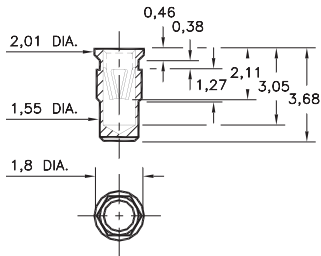
PIN RECEPTACLES

FOR 0,56 - 0,86 DIAMETER PINS AND 0,64 SQUARE PINS

0291

0291-0-15-XX-16-XX-10-0

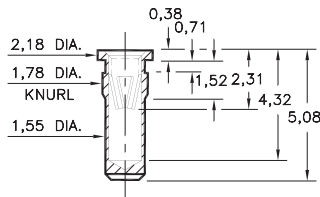
Hex press-fit in 1,7 plated through-hole



0293

0293-0-15-XX-16-XX-10-0

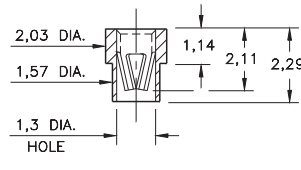
Press-fit in 1,7 mounting hole



0287

0287-0-15-XX-16-XX-10-0

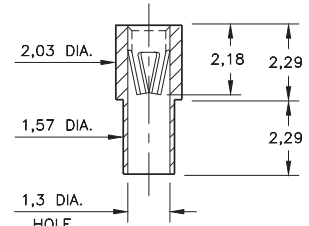
Solder mount in 1,65 min. mounting hole
Also available on 8mm wide carrier tape:
3,250 parts per 330mm reel
Order as: 0287-0-57-XX-16-XX-10-0



0285

0285-0-15-XX-16-XX-10-0

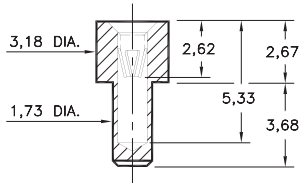
Solder mount in 1,65 min. mounting hole



0284

0284-0-15-XX-16-XX-10-0

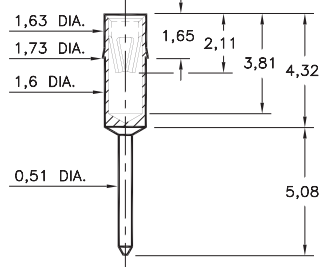
Solder mount in 1,78 min. mounting hole



8114

8114-0-15-XX-16-XX-04-0

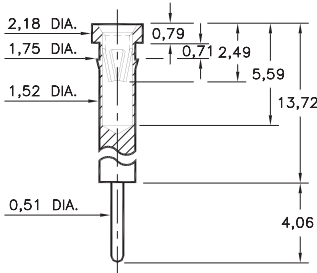
Press-fit from underside of pc board into 1,65 mounting hole



0407

0407-0-15-XX-16-XX-04-0

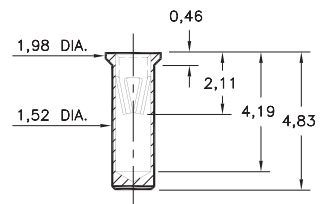
Press-fit in 1,68 mounting hole



0415

0415-0-15-XX-16-XX-10-0

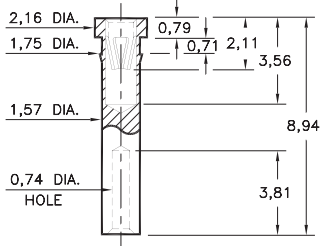
Solder mount in 1,6 min. mounting hole
Also available on 24mm wide carrier tape:
1,500 parts per 330mm reel
Order as: 0415-0-57-XX-16-XX-10-0



0303

0303-0-19-XX-16-XX-10-0

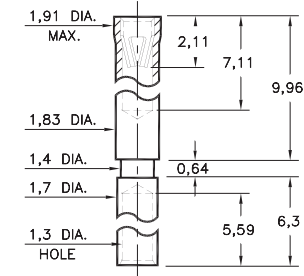
Press-fit in 1,7 mounting hole
Wire Crimp Termination. Accepts wire sizes 26 AWG Max. / 30 AWG Min.



0306

0306-0-19-XX-16-XX-10-0

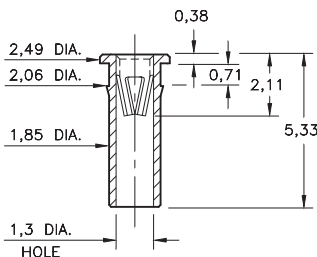
Wire Crimp Termination. Accepts wire sizes 20 AWG Max. / 24 AWG Min.



0273

0273-0-15-XX-16-XX-10-0

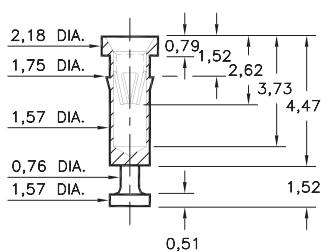
Press-fit in 1,98 mounting hole



7520

7520-0-15-XX-16-XX-10-0

Press-fit in 1,68 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$

Diameters: $\pm 0,051$

Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 1X - XX - 16 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

01 5,04µm TIN/LEAD OVER NICKEL

◆ **80** 5,04µm TIN OVER NICKEL (RoHS)

◆ **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

01 5,04µm TIN/LEAD OVER NICKEL

◆ **80** 5,04µm TIN OVER NICKEL (RoHS)

◆ **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#16 CONTACT (DATA ON PAGE 256)

(For alternate contact choices, see group D on page 248)



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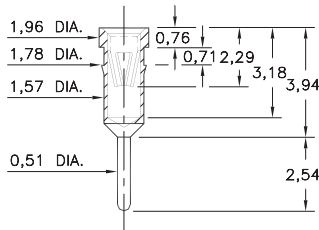
PIN RECEPTACLES

FOR 0,56 - 0,86 DIAMETER PINS AND 0,64 SQUARE PINS

9808

9808-0-15-XX-16-XX-04-0

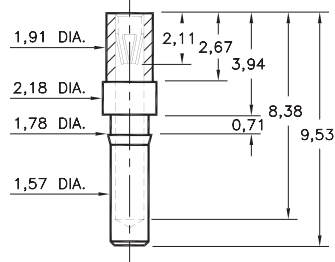
Press-fit in 1,70 mounting hole



9101

9101-0-15-XX-16-XX-10-0

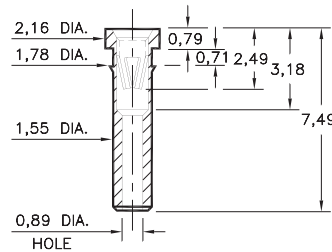
Press-fit in 1,70 mounting hole



5650

5650-0-19-XX-16-XX-10-0

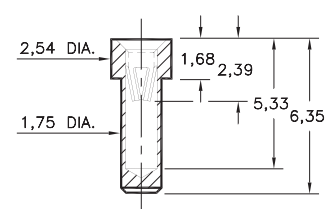
Press-fit in 1,70 mounting hole



8679

8679-0-15-XX-16-XX-10-0

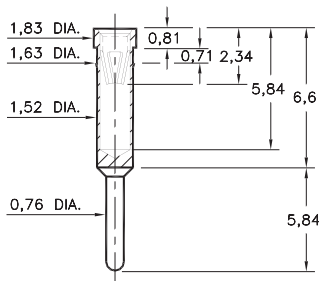
Solder mount in 1,80 min. mounting hole



8827

8827-0-15-XX-16-XX-04-0

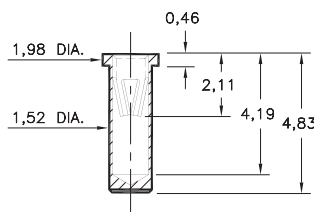
Press-fit in 1,55 mounting hole



6021

6021-0-15-XX-16-XX-10-0

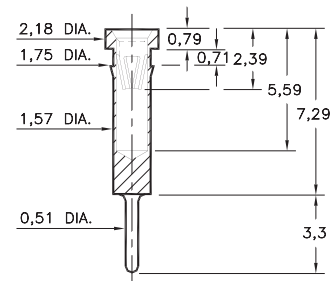
Solder mount in 1,57 min. mounting hole



1873

1873-0-15-XX-16-XX-04-0

Press-fit in 1,68 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$

Diameters: $\pm 0,051$

Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 1X - XX - 16 - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:

01 5,08 μ m TIN/LEAD OVER NICKEL

80 5,08 μ m TIN OVER NICKEL (RoHS)

15 0,25 μ m GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

01 5,08 μ m TIN/LEAD OVER NICKEL

80 5,08 μ m TIN OVER NICKEL (RoHS)

27 0,76 μ m GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#16 CONTACT (DATA ON PAGE 256)

(For alternate contact choices, see group D on page 248)



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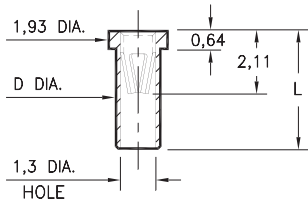
PIN RECEPTACLES

FOR 0,64 - 0,94 DIAMETER PINS AND 0,64 SQUARE PINS

0305

0305-X-15-XX-47-XX-10-0

Solder mount in 1,5/1,55 mounting hole
Also available on 8mm or 24mm wide carrier tape: See chart for details
Order as: 0305-X-57-XX-47-XX-10-0



Basic Part Number	Length L	Dia. D
0305-0	2,41	1,42
0305-1	2,67	1,47
0305-2	3,94	1,47

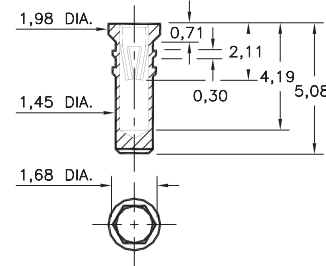
T&R Packaging

Basic Part Number	Tape Width	Parts per 330mm Reel
0305-0	8mm	6,000
0305-1	8mm	6,000
0305-2	24mm	1,500

0279

0279-0-15-XX-47-XX-10-0

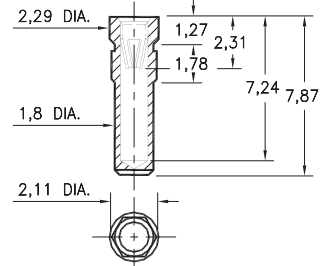
Hex press-fit in 1,57 plated through-hole



0330

0330-0-15-XX-47-XX-10-0

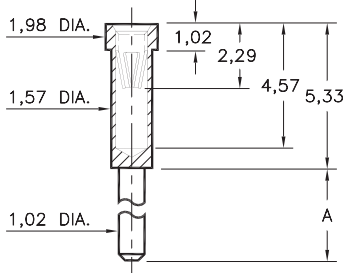
Hex press-fit in 2,01 plated through-hole



0300/8300

X300-X-15-XX-47-XX-10-0

Solder mount in 1,07 min. mounting hole

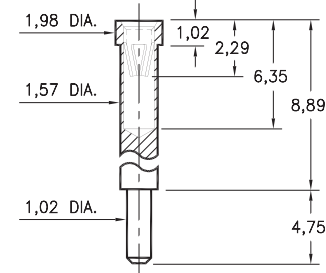


Basic Part Number	Length A
0300-1	2,79
0300-2	4,75
8300-0	3,56

0301

0301-1-15-XX-47-XX-10-0

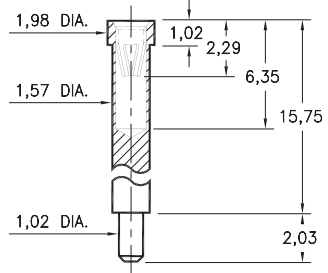
Solder mount in 1,07 min. mounting hole



0309

0309-2-15-XX-47-XX-10-0

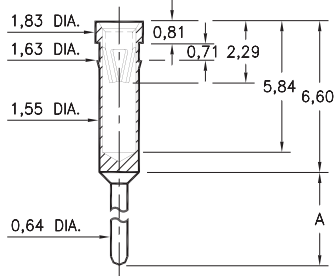
Solder mount in 1,07 min. mounting hole



0399

0399-X-15-XX-47-XX-04-0

Press-fit in 1,55 mounting hole

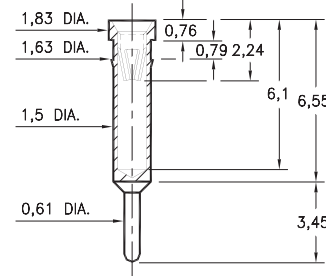


Basic Part Number	Length A
0399-0	5,84
0399-1	4,57

1304

1304-0-15-XX-47-XX-04-0

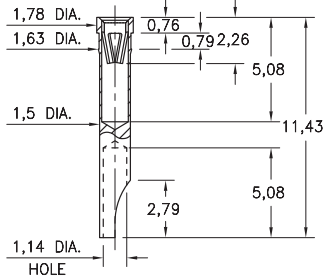
Press-fit in 1,55 mounting hole



1134

1134-0-18-15-47-27-10-0

Press-fit in 1,55 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 15 - XX - 47 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 5,08µm TIN/LEAD OVER NICKEL
- ◆ 80 5,08µm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 5,08µm TIN/LEAD OVER NICKEL
- ◆ 80 5,08µm TIN OVER NICKEL (RoHS)
- ◆ 27 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#47 CONTACT (DATA ON PAGE 256)

(For alternate contact choices, see group D on page 248)



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COMPLIANT TAIL PINS & RECEPTACLES

DESIGNED FOR A SECURE PRESS-FIT IN STANDARD PLATED THROUGH-HOLES

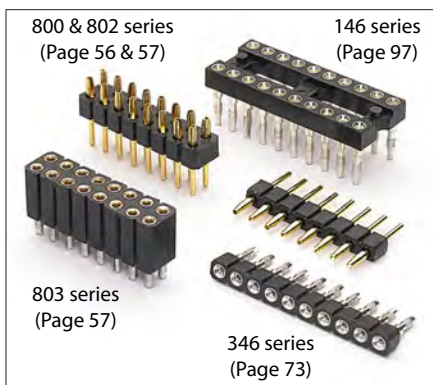
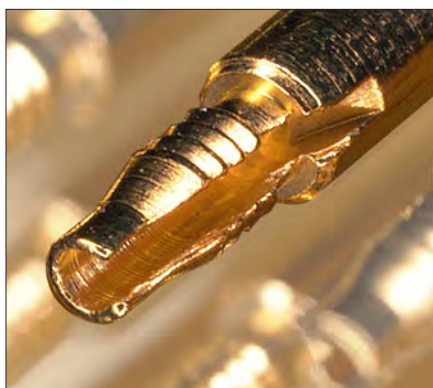
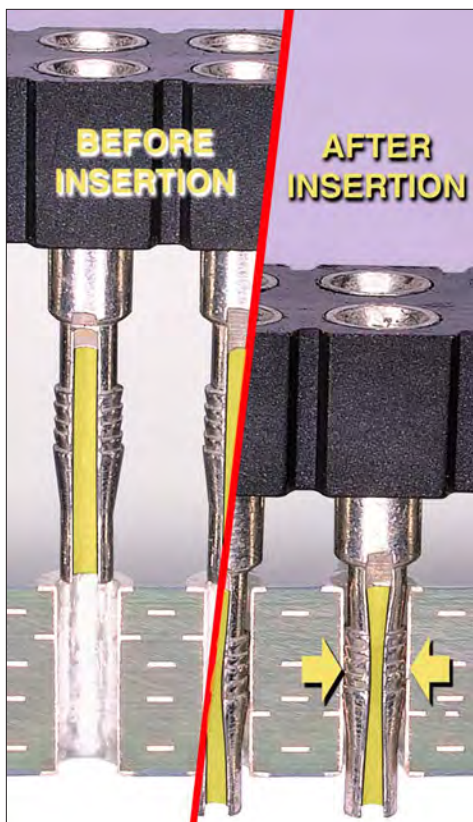
The unique compliant pin design is characterized by a hollow and slotted tail that closes down and conforms to the size of the plated through-hole, thus preventing damage. In addition, the combination of slotted tail and a series of fine serrations make a reliable gas-tight connection with the plating inside the hole.

Mill-Max offers sockets, headers and discrete pins and receptacles with compliant tail or barrel features to address a broad range of applications where press-fitting is the desired solution over soldering. Mill-Max compliant tail sockets are available in dual-in-line packages (Series 146) and single and double row strips (Series 346 and 446, respectively).

For higher current and more rugged applications, Mill-Max has single row (Series 800) and double row (Series 802) interconnects and mating sockets, single row (Series 801) and double row (Series 803). Multi-layer boards can be stacked by mating these pin headers with sockets containing highly reliable six-finger inner contacts that accept 0,76 diameter round pins as well as 0,64 square pins.

Both compliant tail sockets and interconnects are available in two tail lengths, one for 1,52 - 2,54 thick panels and another for 2,29 - 3,30 thick panels.

Discrete pins (P/N's 5601, 5602 & 2617) and receptacles (P/N's 4993 & 4994) are useful for single location requirements or for non-standard layouts. The receptacles are low profile. The 4993 accepts leads from 0,3 - 0,43 and 4994 accepts leads from 0,38 - 0,51.



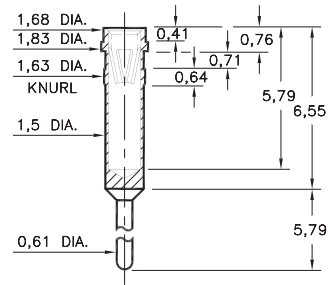
PIN RECEPTACLES

FOR 0,64 - 0,94 DIAMETER PINS AND 0,64 SQUARE PINS

1305

1305-0-15-XX-47-XX-04-0

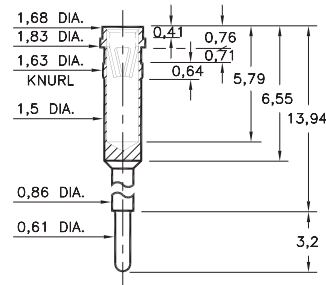
Press-fit in 1,55 mounting hole



1306

1306-0-15-XX-47-XX-04-0

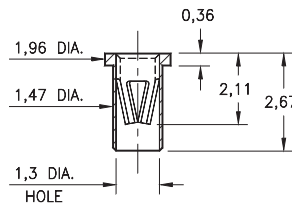
Press-fit in 1,55 mounting hole



7305

7305-0-15-XX-47-XX-10-0

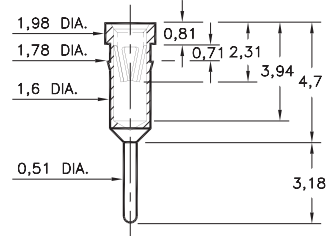
Solder mount in 1,52 min. mounting hole
Also available on 8mm wide carrier tape:
6,000 parts per 330mm reel
Order as: 7305-0-57-XX-47-XX-10-0



0400

0400-0-15-XX-47-XX-04-0

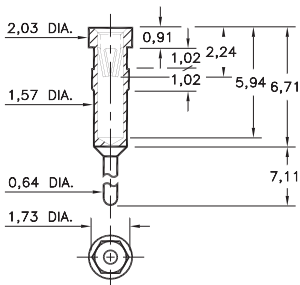
Press-fit in 1,7 mounting hole



0335

0335-0-15-XX-47-XX-04-0

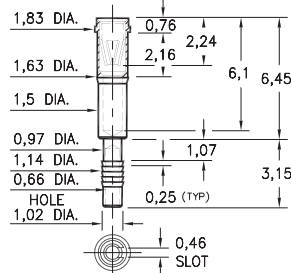
Hex press-fit in 1,63 plated through-hole



4614

4614-0-31-XX-47-XX-04-0

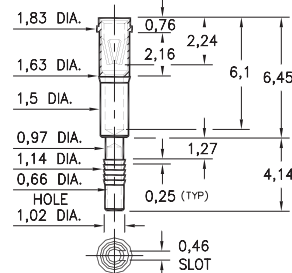
Compliant press-fit in 1,02 ± 0,08 plated hole. For 1,52 → 2,54 thick board



4615

4615-0-31-XX-47-XX-04-0

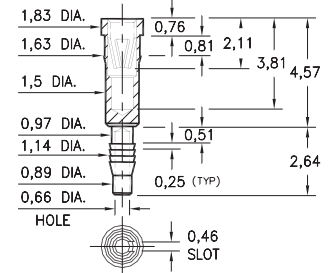
Compliant press-fit in 1,02 ± 0,08 plated hole. For 2,29 → 3,30 thick board



7614

7614-0-31-XX-47-XX-04-0

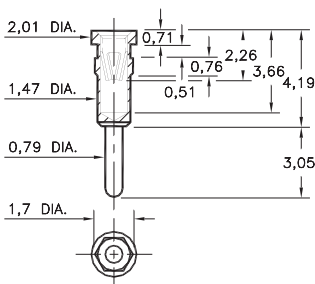
Compliant press-fit in 1,02 ± 0,08 plated hole. For 1,52 → 2,54 thick board



8401

8401-0-15-XX-47-XX-04-0

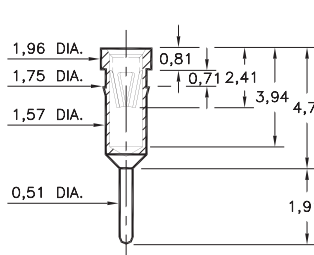
Hex press-fit in 1,6 plated through-hole



2400

2400-0-15-XX-47-XX-04-0

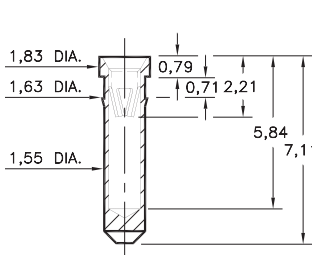
Press-fit in 1,68 mounting hole



6857

6857-0-15-XX-47-XX-10-0

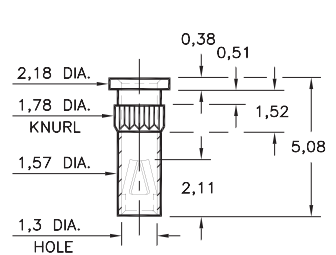
Press-fit in 1,55 mounting hole



9393

9393-0-15-XX-47-XX-10-0

Press-fit in 1,70 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13

Diameters: ± 0,051

Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - 47 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

01 5,08µm TIN/LEAD OVER NICKEL

◆ 80 5,08µm TIN OVER NICKEL (RoHS)

◆ 15 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

01 5,08µm TIN/LEAD OVER NICKEL

◆ 80 5,08µm TIN OVER NICKEL (RoHS)

◆ 27 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#47 CONTACT (DATA ON PAGE 256)

(For alternate contact choices, see group D on page 248)



Mill-Max Mfg. Corp. • 190 Pine Hollow Road, P.O. Box 300, Oyster Bay, NY 11771 • 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com

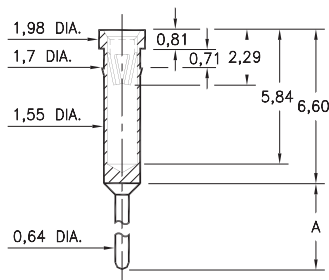
PIN RECEPTACLES

FOR 0,64 - 0,94 DIAMETER PINS AND 0,64 SQUARE PINS

0401/6401

X401-0-15-XX-47-XX-04-0

Press-fit in 1,63 mounting hole

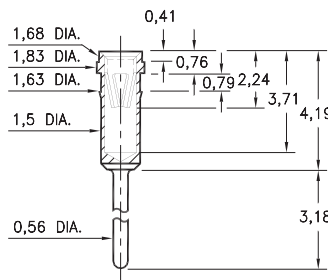


Basic Part Number	Length A
0401-0	8,64
6401-0	13,72

1303

1303-0-15-XX-47-XX-04-0

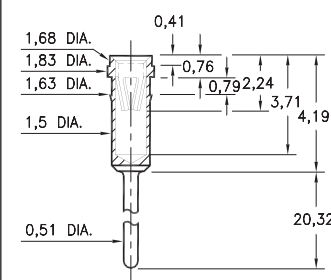
Press-fit in 1,55 mounting hole



8303

8303-0-15-XX-47-XX-04-0

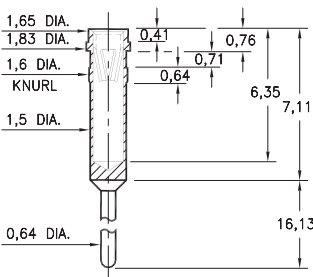
Press-fit in 1,55 mounting hole



4095

4095-0-15-XX-47-XX-04-0

Press-fit in 1,55 mounting hole



8806

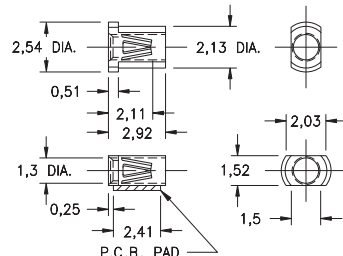
8806-0-18-XX-47-XX-40-0

Surface mount

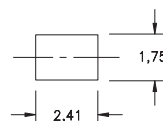
Also available on 12mm wide carrier tape:

4,000 parts per 330mm reel

Order as: 8806-0-58-XX-47-XX-10-0



P.C.B. Layout



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 1X - XX - 47 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01** 5,08 μ m TIN/LEAD OVER NICKEL
- 80** 5,08 μ m TIN OVER NICKEL (RoHS)
- 15** 0,25 μ m GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01** 5,08 μ m TIN/LEAD OVER NICKEL
- 80** 5,08 μ m TIN OVER NICKEL (RoHS)
- 27** 0,76 μ m GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#47 CONTACT (DATA ON PAGE 256)

(For alternate contact choices, see group D on page 248)



Mill-Max Mfg. Corp. • 190 Pine Hollow Road, P.O. Box 300, Oyster Bay, NY 11771 • 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com

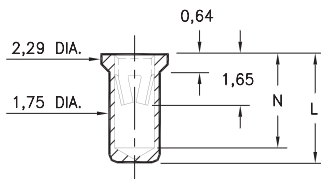
PIN RECEPTACLES

FOR 0,94 - 1,09 DIAMETER PINS

0331/9353

X3XX-0-15-XX-18-XX-10-0

Solder mount in 1,80 min. mounting hole
Also available on 24mm wide carrier tape:
1,000 parts per 330mm reel
Order as: X3XX-0-57-XX-18-XX-10-0

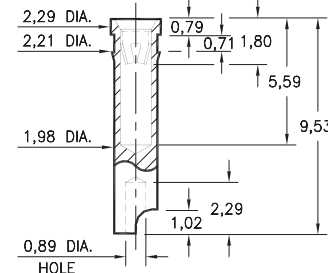


Basic Part Number	Length L	Depth N
0331-0	3,81	3,23
9353-0	4,32	3,73

7405

7405-0-18-XX-18-XX-10-0

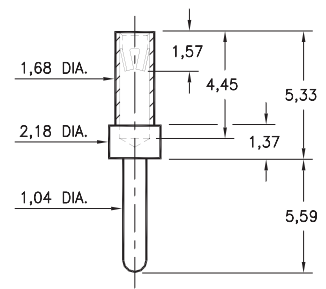
Press-fit in 2,13 mounting hole
Accepts wire sizes up to 0,64 dia.



3450

3450-0-15-XX-18-XX-04-0

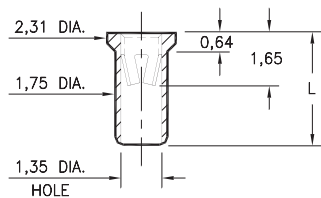
Solder mount in 1,09 min. mounting hole



9354/7406

XXXX-0-15-XX-18-XX-10-0

Solder mount in 1,80 min. mounting hole

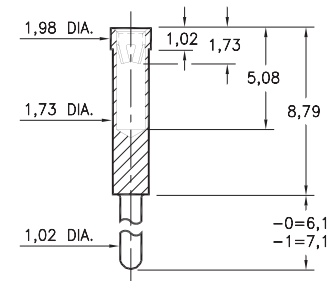


Basic Part Number	Length L
7406-0	3,05
9354-0	4,32

0319

0319-X-15-XX-18-XX-04-0

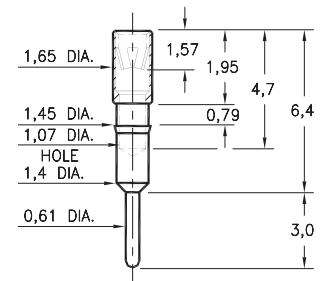
Solder mount in 1,07 min. mounting hole



1313

1313-0-15-XX-18-XX-04-0

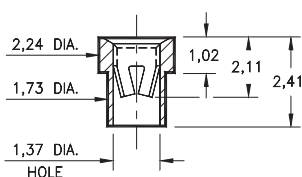
Press-fit in 1,42 mounting hole



3520

3520-0-15-XX-18-XX-10-0

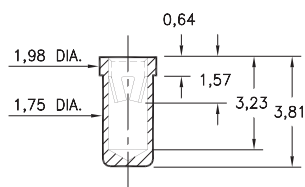
Solder mount in 1,78 min. mounting hole



8331

8331-0-15-XX-18-XX-10-0

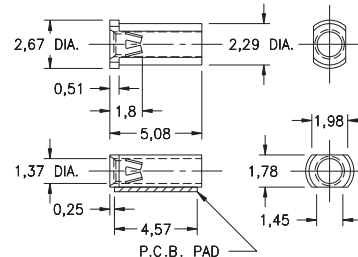
Solder mount in 1,80 min. mounting hole



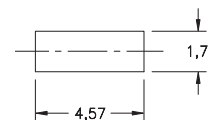
6628

6628-0-18-XX-18-XX-10-0

Surface mount
Also available on 12mm wide carrier tape:
3,700 parts per 330mm reel
Order as: 6628-0-58-XX-18-XX-10-0



P.C.B. Layout



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 1X - XX - 18 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 5,08µm TIN/LEAD OVER NICKEL
- ◆ 80 5,08µm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 5,08µm TIN/LEAD OVER NICKEL
- ◆ 80 5,08µm TIN OVER NICKEL (RoHS)
- ◆ 27 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#18 CONTACT (DATA ON PAGE 257)

(For alternate contact choices, see group L on page 248)



Mill-Max Mfg. Corp. • 190 Pine Hollow Road, P.O. Box 300, Oyster Bay, NY 11771 • 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com

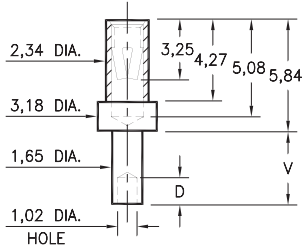
PIN RECEPTACLES

FOR 0,81 - 1,17 DIAMETER PINS

0344

0344-X-19-XX-34-XX-10-0

Swage mount in 1,70 hole

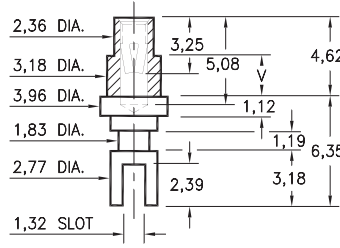


Basic Part Number	Board Thickness	Length V	Depth D
0344-1	0,78	1,57	1,02
0344-2	1,57	2,39	1,57
0344-3	2,39	3,18	1,57
0344-4	3,18	3,96	1,57

0349

0349-X-31-XX-34-XX-10-0

Swage mount in 3,28 hole

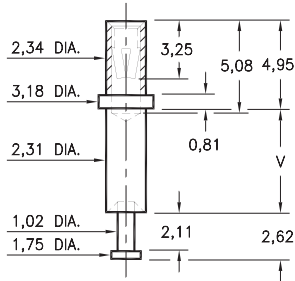


Basic Part Number	Board Thickness	Length V
0349-2	1,57	2,39
0349-3	2,39	3,18
0349-4	3,18	3,96

0323

0323-X-15-XX-34-XX-10-0

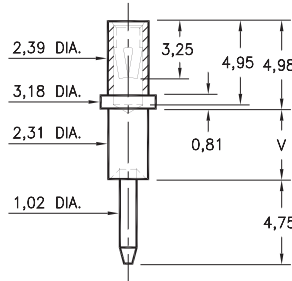
Swage mount in 2,39 hole



0324

0324-X-15-XX-34-XX-10-0

Swage mount in 2,39 hole

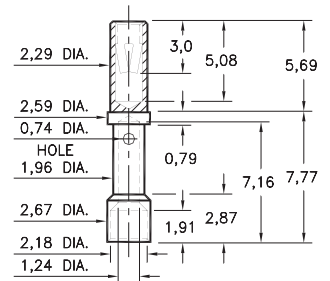


Basic Part Number	Board Thickness	Length V
032X-1	0,79	1,57
032X-2	1,57	2,39
032X-3	2,39	3,18
032X-4	3,18	3,96
032X-5	4,78	5,56

0348

0348-0-33-XX-34-XX-10-0

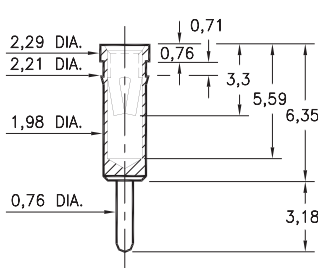
Wire crimp termination. Accepts wire sizes 20 AWG Max. / 24 AWG Min.



0405

0405-0-15-XX-34-XX-04-0

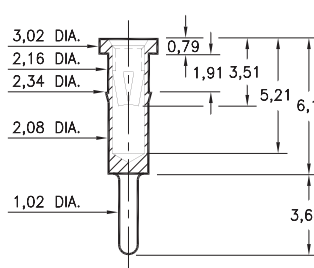
Press-fit in 2,13 mounting hole



0336

0336-0-15-XX-34-XX-04-0

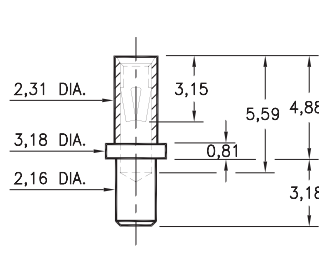
Press-fit in 2,26 mounting hole



0322

0322-0-15-XX-34-XX-10-0

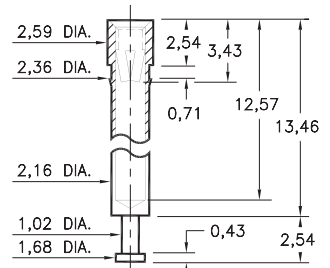
Solder mount in 2,26 min. mounting hole



0325

0325-0-15-XX-34-XX-10-0

Press-fit in 2,29 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - XX - XX - 34 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 5,08µm TIN/LEAD OVER NICKEL
- ◆ 80 5,08µm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 5,08µm TIN/LEAD OVER NICKEL
- ◆ 80 5,08µm TIN OVER NICKEL (RoHS)
- ◆ 27 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#34 CONTACT (DATA ON PAGE 258)

(For alternate contact choices, see group E on page 248)



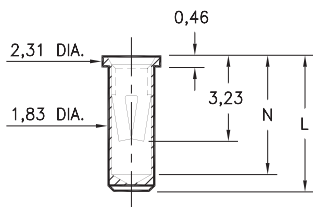
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PIN RECEPTACLES

FOR 0,81 - 1,17 DIAMETER PINS

0327/0351/0373

03XX-0-15-XX-34-XX-10-0
Solder mount in 1,91 min. mounting hole
Also available on 12mm or 24mm wide carrier tape: See chart for details
Order as: 03XX-0-57-XX-34-XX-10-0



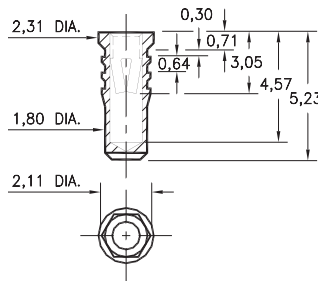
Basic Part Number	Length L	Depth N
0327-0	5,23	4,57
0351-0	5,74	5,08
0373-0	6,86	6,12

T&R Packaging

Basic Part Number	Tape Width	Parts per 330mm Reel
0327-0	12mm	1,400
0351-0	24mm	1,100

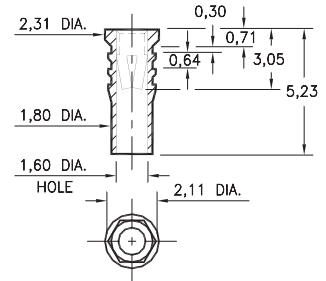
0328

0328-0-15-XX-34-XX-10-0
Hex press-fit in 2,01 plated through-hole



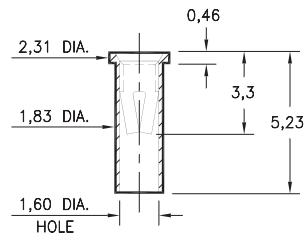
0334

0334-0-15-XX-34-XX-10-0
Hex press-fit in 2,01 plated through-hole



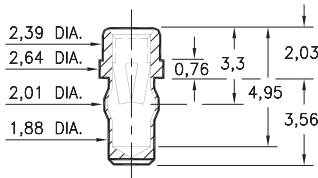
0312

0312-0-15-XX-34-XX-10-0
Solder mount in 1,91 min. mounting hole
Also available on 12mm wide carrier tape: 1,400 parts per 330mm reel
Order as: 0312-0-57-XX-34-XX-10-0



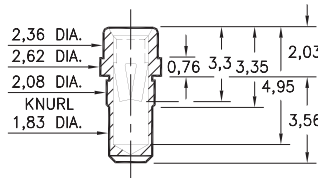
0333

0333-0-42-XX-34-XX-10-0
Press-fit in 1,93 mounting hole



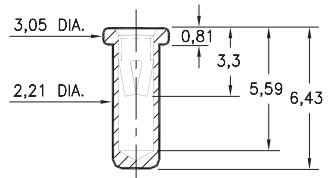
0357

0357-0-15-XX-34-XX-10-0
Press-fit in 1,98 mounting hole



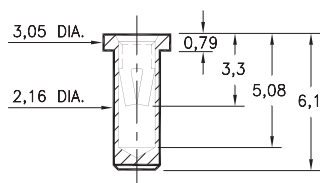
0317

0317-0-15-XX-34-XX-04-0
Solder mount in 2,31 min. mounting hole



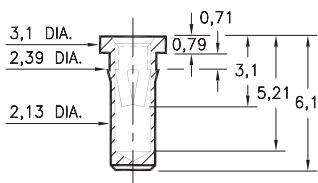
0340

0340-0-15-XX-34-XX-10-0
Solder mount in 2,21 min. mounting hole



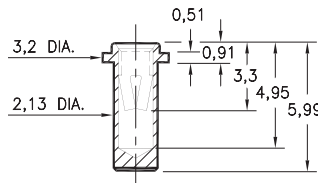
0345

0345-0-15-XX-34-XX-10-0
Press-fit in 2,26 mounting hole



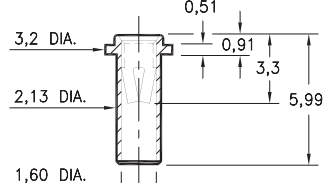
0316

0316-0-15-XX-34-XX-10-0
Solder mount in 2,21 min. mounting hole



0314

0314-0-15-XX-34-XX-10-0
Solder mount in 2,21 min. mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$

Diameters: $\pm 0,051$

Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - XX - XX - 34 - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 5,08µm TIN/LEAD OVER NICKEL
- ◆ 80 5,08µm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 5,08µm TIN/LEAD OVER NICKEL
- ◆ 80 5,08µm TIN OVER NICKEL (RoHS)
- ◆ 27 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#34 CONTACT (DATA ON PAGE 258)

(For alternate contact choices, see group E on page 248)



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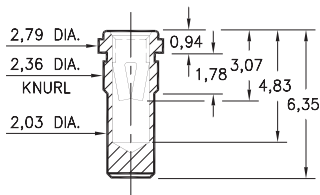
PIN RECEPTACLES

FOR 0,81 - 1,17 DIAMETER PINS

0359

0359-0-15-XX-34-XX-10-0

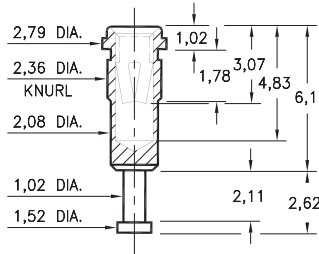
Press-fit in 2,29 mounting hole



0358

0358-0-15-XX-34-XX-10-0

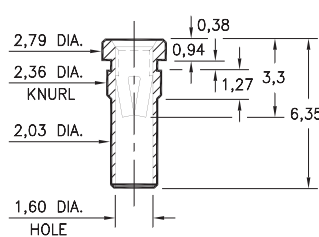
Press-fit in 2,29 mounting hole



0360

0360-0-15-XX-34-XX-10-0

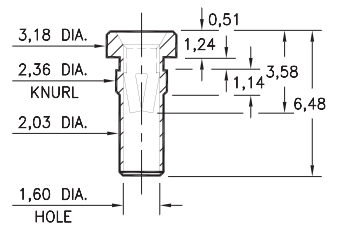
Press-fit in 2,29 mounting hole



0343

0343-0-15-XX-34-XX-10-0

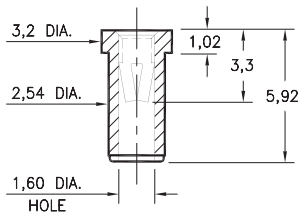
Press-fit in 2,29 mounting hole



0356

0356-0-15-XX-34-XX-10-0

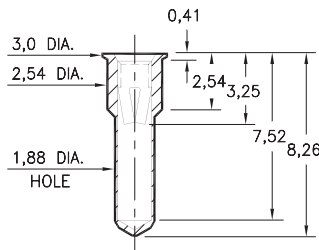
Solder mount in 2,59 min. mounting hole
Also available on 24mm wide carrier tape:
1,100 parts per 330mm reel
Order as: 0356-0-57-XX-34-XX-10-0



6659

6659-0-15-XX-34-XX-10-0

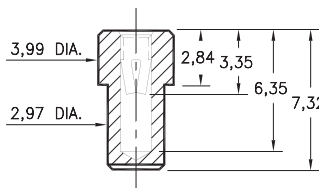
Solder mount in 2,59 min. mounting hole



0347

0347-0-15-XX-34-XX-10-0

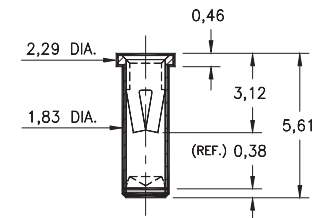
Solder mount in 3,05 min. mounting hole



0329

0329-0-15-XX-34-XX-10-0

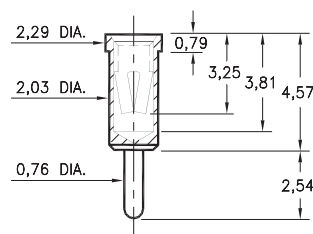
Solder mount in 1,91 min. mounting hole. "Knock out" bottom



0814

0814-0-15-XX-34-XX-04-0

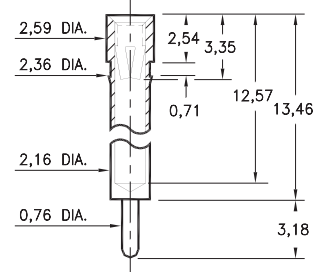
Solder mount in 2,08 min. mounting hole



5059

5059-0-15-XX-34-XX-04-0

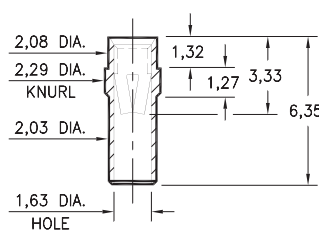
Press-fit in 2,29 mounting hole



8360

8360-0-15-XX-34-XX-10-0

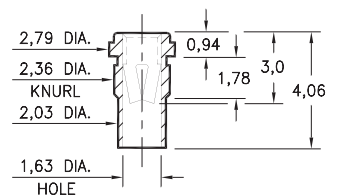
Press-fit in 2,21 mounting hole



9359

9359-0-15-XX-34-XX-10-0

Press-fit in 2,29 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 15 - XX - 34 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 5,08µm TIN/LEAD OVER NICKEL
- ◆ 80 5,08µm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 5,08µm TIN/LEAD OVER NICKEL
- ◆ 80 5,08µm TIN OVER NICKEL (RoHS)
- ◆ 27 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#34 CONTACT (DATA ON PAGE 258)

(For alternate contact choices, see group E on page 248)



Mill-Max Mfg. Corp. • 190 Pine Hollow Road, P.O. Box 300, Oyster Bay, NY 11771 • 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com

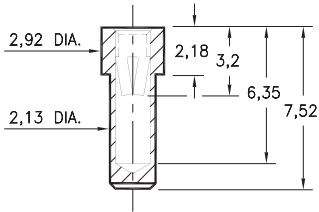
PIN RECEPTACLES

FOR 0,81 - 1,17 DIAMETER PINS

8838

8838-0-15-XX-34-XX-10-0

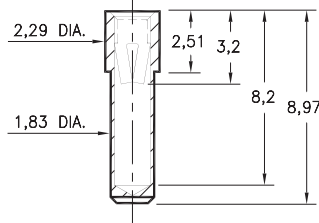
Solder mount in 2,18 min. mounting hole



3100

3100-0-15-XX-34-XX-10-0

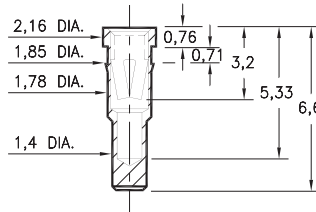
Solder mount in 1,88 min. mounting hole



8853

8853-0-15-XX-34-XX-10-0

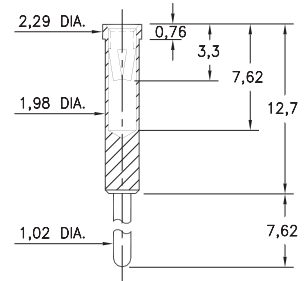
Press-fit in 1,8 mounting hole



6800

6800-0-15-XX-34-XX-04-0

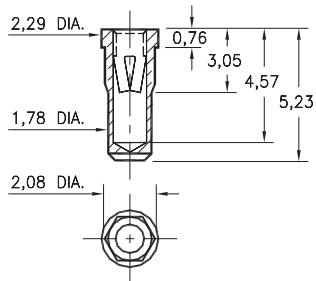
Solder mount in 2,03 min. mounting hole



0739

0739-0-15-XX-34-XX-10-0

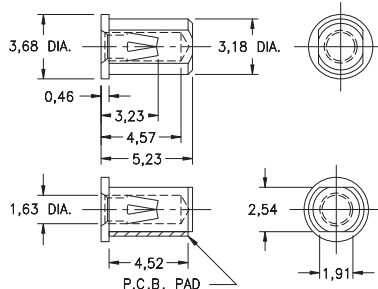
Hex press-fit in 1,98 plated through-hole



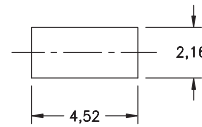
8206

8206-0-15-XX-34-XX-40-0

Surface mount, board edge



P.C.B. Layout



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$

Diameters: $\pm 0,051$

Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 15 - XX - 34 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

01 5,08 μ m TIN/LEAD OVER NICKEL

◆ 80 5,08 μ m TIN OVER NICKEL (RoHS)

◆ 15 0,25 μ m GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

01 5,08 μ m TIN/LEAD OVER NICKEL

◆ 80 5,08 μ m TIN OVER NICKEL (RoHS)

◆ 27 0,76 μ m GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#34 CONTACT (DATA ON PAGE 258)

(For alternate contact choices, see group E on page 248)



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LOOSE PINS & RECEPTACLES ON T&R

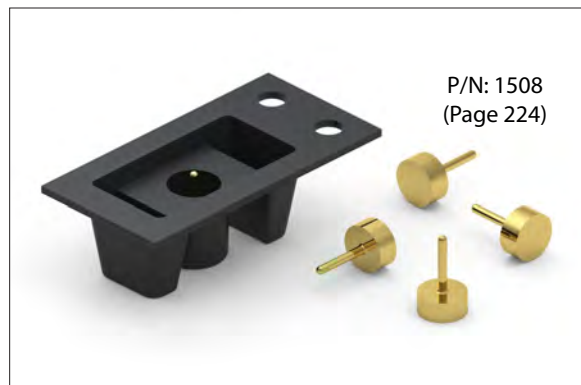
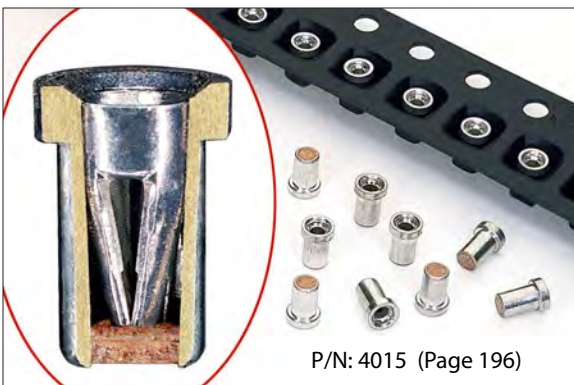
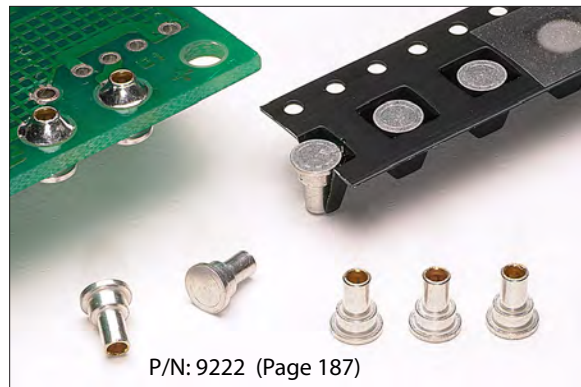
LOOSE PINS & RECEPTACLES FOR AUTOMATED 'PICK & PLACE' ASSEMBLY

Mill-Max offers receptacles (discrete sockets) on carrier tape per EIA-481 to feed automated 'pick & place' assembly equipment. Our standard reel size is 330mm.

Two types of pins and receptacles are available on carrier tape: surface mount, flat types, which sit on the surface of the PCB where the pin or component lead plugs-in parallel to the PCB; and through-hole types where the lead plugs-in perpendicular to the PCB. Through-hole pins and receptacles are intrusive reflow soldered *.

In addition, open bottom through-hole receptacles are available loaded with our Organic Fibre Plug® barrier which prevents solder paste or flux from contaminating the spring contact. After soldering, the OFP® barrier is pushed out of the receptacle when the device is plugged in.

*Intrusive reflow (also called "pin-in-paste") is a technique of using conventional through-hole components in a reflow soldering process. The receptacles are placed into plated-through-holes in the circuit board (solder paste has previously been screen printed on pads adjacent to the holes) and the board is reflowed in the same pass as other SMT components. Solder will fill the plated-through-holes and achieve solder joints as reliable as wave soldering. The OFP® barrier prevents solder paste from being picked up inside the contact during pick 'n place assembly. "Overprinting" paste on the solder mask can be used to adjust the volume of paste required to fill each hole.



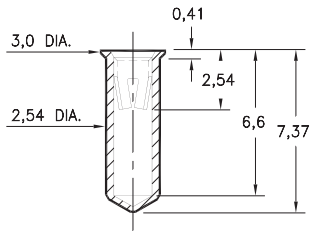
PIN RECEPTACLES

FOR 1,02 - 1,27 DIAMETER PINS

0355

0355-0-15-XX-02-XX-10-0

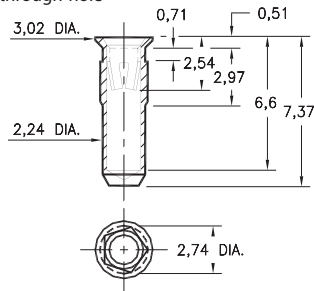
Solder mount in 2,59 min. mounting hole



0354

0354-0-15-XX-02-XX-10-0

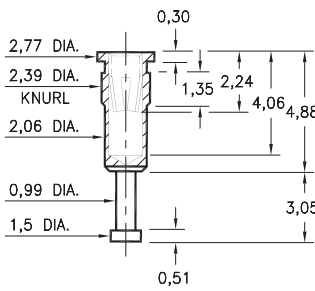
Pentagonal press-fit in 2,64 min. plated through-hole



3490

3490-0-15-XX-02-XX-10-0

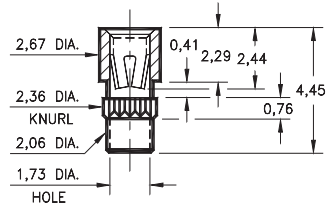
Press-fit in 2,31 mounting hole



3808

3808-0-15-XX-02-XX-10-0

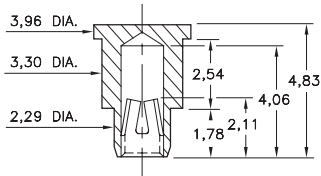
Press-fit in 2,29 mounting hole



9184

9184-0-15-XX-02-XX-40-0

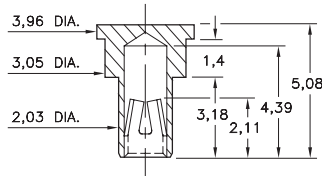
Bottom entry, surface mount
2,34 min. plated through-hole
Also available on carrier tape,
Order as: 9184-0-57-XX-02-XX-40-0



9222

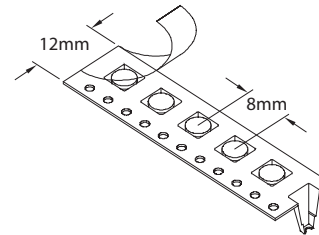
9222-2-15-XX-02-XX-40-0

Bottom entry, surface mount
2,08 min. plated through-hole
Also available on carrier tape,
Order as: 9222-2-57-XX-02-XX-40-0



Carrier tape format for
9184 and 9222.

1,500 pieces per 330mm reel



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$

Diameters: $\pm 0,051$

Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 15 - XX - 02 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25μm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 27 0,76μm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#02 CONTACT (DATA ON PAGE 259)

(For alternate contact choices, see group F on page 248)



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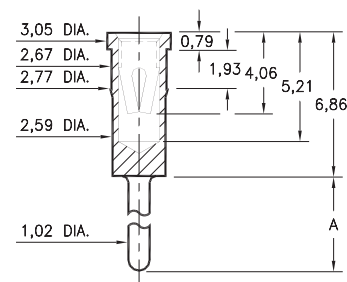
PIN RECEPTACLES

FOR 1,02 - 1,52 DIAMETER PINS (#03 CONTACT)
FOR 1,5 - 1,6 DIAMETER PINS (#42 CONTACT)

0433/8433

X433-0-15-XX-03-XX-04-0

Press-fit in 2,69 mounting hole



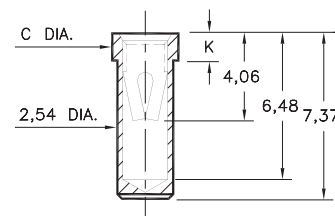
Basic Part Number	Length A
0433-0	3,05
8433-0	8,38

0435/0436

043X-0-15-XX-03-XX-10-0

Solder mount in 2,59 min. mounting hole
 Also available on 24mm wide carrier tape:
 950 parts per 330mm reel

Order as: 0435-0-57-XX-03-XX-10-0

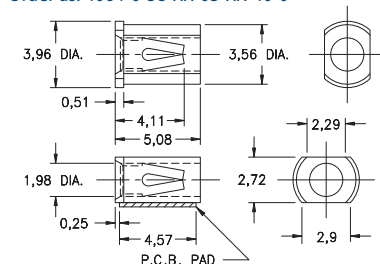


Basic Part Number	Dia. C	Length K
0435-0	3,0	1,27
0436-0	3,18	1,78

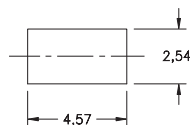
4064

4064-0-18-XX-03-XX-40-0

Surface mount
 Also available on 16mm wide carrier tape:
 2,400 parts per 330mm reel
 Order as: 4064-0-58-XX-03-XX-40-0



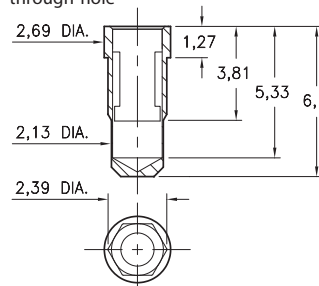
P.C.B. Layout



0342

0342-0-15-XX-42-XX-10-0

Hex press-fit in 2,29±0,05 plated through-hole

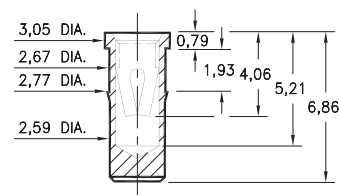


- 0342 receptacle uses Mill-Max's new #42 Contact. This receptacle will accept the Ø1,55 ±0,05 power pins of ¼ brick DC/DC converters.
- #42 contact can be ordered in standard receptacles that use #03 contact; or it can be specified as the spring element inside custom made receptacles.

0434

0434-0-15-XX-03-XX-10-0

Press-fit in 2,69 mounting hole



Mechanical Data #42 Contact:

Insertion/Extraction Force with a Ø1,55 (nominal) pin:

First Cycle		2nd & Subsequent Cycles	
Insertion Force	Extraction Force	Insertion Force	Extraction Force
20N	6N	10N	6N

Compliance Test (the "spring back" characteristic of the contact to accept Ø 1,5 small pin after insertion of a Ø1,6 large pin) :

Initial Cycle with Ø1,5 pin		Second Cycle with Ø1,6 pin		Third Cycle with Ø1,5 pin	
Ins. Force	Ext. Force	Ins. Force	Ext. Force	Ins. Force	Ext. Force
18N	6N	22N	7N	3N	2N

(Insertion/Extraction Forces are in Newtons and measured with polished steel gage pins having elliptical shaped tips).

SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ±0,13
 Diameters: ±0,051
 Angles: ±2°



ORDER CODE: XXXX - X - 1X - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 5,08µm TIN/LEAD OVER NICKEL
- 80 5,08µm TIN OVER NICKEL (RoHS)
- 15 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 5,08µm TIN/LEAD OVER NICKEL
- 80 5,08µm TIN OVER NICKEL (RoHS)
- 27 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#03 or #42 CONTACT (DATA ON PAGE 259)



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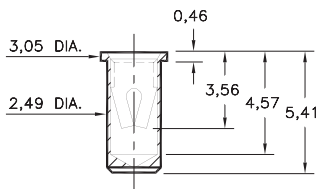
PIN RECEPTACLES

FOR 1,22 - 1,63 DIAMETER PINS (#13 CONTACT)
FOR 1,14 - 1,65 DIAMETER PINS (#23 CONTACT)

0364

0364-0-15-XX-13-XX-10-0

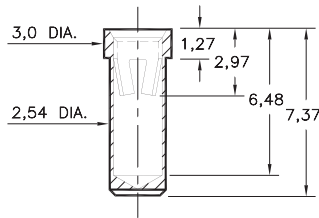
Solder mount in 2,54 min. mounting hole
 Also available on 16mm wide carrier tape:
 1,300 parts per 330mm reel
 Order as: 0364-0-57-XX-13-XX-10-0



0363

0363-0-15-XX-23-XX-10-0

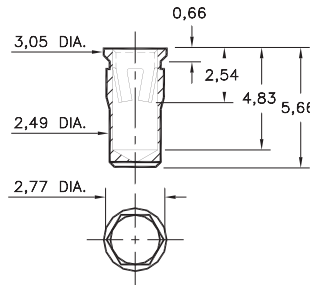
Solder mount in 2,59 min. mounting hole



0365

0365-0-15-XX-23-XX-10-0

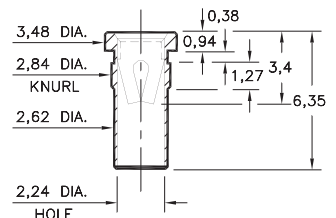
Hex press-fit in 2,67 plated through-hole



0366

0366-0-15-XX-13-XX-10-0

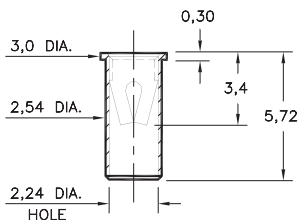
Press-fit in 2,77 mounting hole



0372

0372-0-15-XX-13-XX-10-0

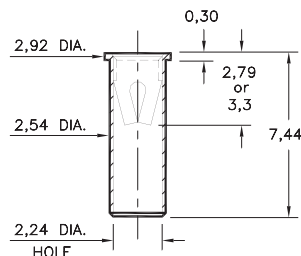
Solder mount in 2,59 min. mounting hole
 Also available on 24mm wide carrier tape:
 950 parts per 330mm reel
 Order as: 0372-0-57-XX-13-XX-10-0



0362

0362-0-15-XX-X3-XX-10-0

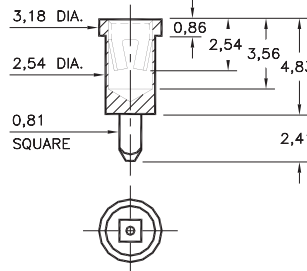
Solder mount in 2,59 min. mounting hole



0367

0367-0-15-XX-23-XX-10-0

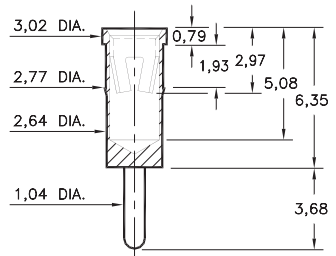
Square press-fit in 1,02 plated through-hole



9324

9324-0-15-XX-23-XX-04-0

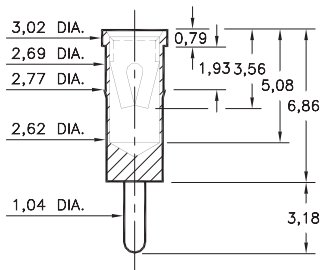
Press-fit in 2,69 mounting hole



0492

0492-0-15-XX-13-XX-04-0

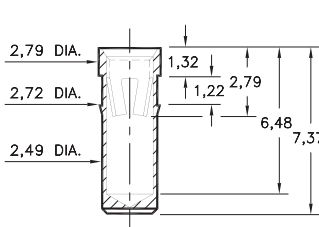
Press-fit in 2,69 mounting hole



0381

0381-0-15-XX-23-XX-10-0

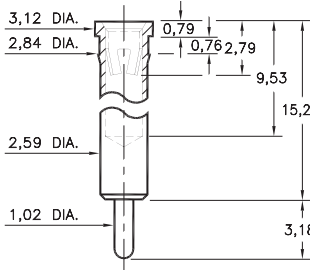
Press-fit in 2,64 mounting hole



4034

4034-0-15-XX-23-XX-04-0

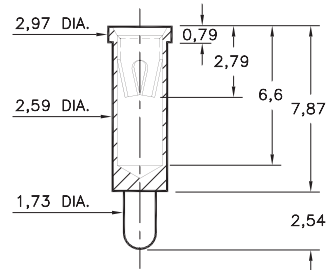
Press-fit in 2,77 mounting hole



3044

3044-0-15-XX-23-XX-04-0

Solder mount in 2,64 min. mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$

Diameters: $\pm 0,051$

Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 15 - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

01 5,08µm TIN/LEAD OVER NICKEL

◆ **80** 5,08µm TIN OVER NICKEL (RoHS)

◆ **15** 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

01 5,08µm TIN/LEAD OVER NICKEL

◆ **80** 5,08µm TIN OVER NICKEL (RoHS)

◆ **27** 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#13 or #23 CONTACT (DATA ON PAGE 260)

(For alternate contact choices, see group G on page 248)



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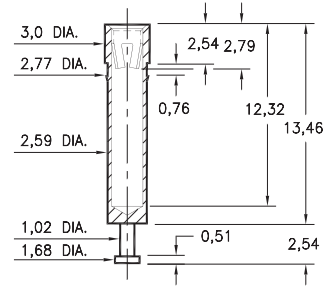
PIN RECEPTACLES

FOR 1,22 - 1,63 DIAMETER PINS (#13 CONTACT)
FOR 1,14 - 1,65 DIAMETER PINS (#23 CONTACT)

0496

0496-0-15-XX-23-XX-10-0

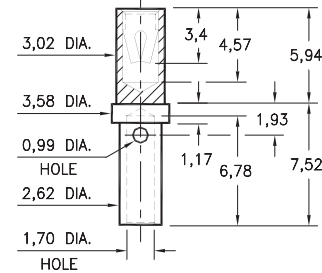
Press-fit in 2,69 mounting hole



0368

0368-0-33-XX-13-XX-10-0

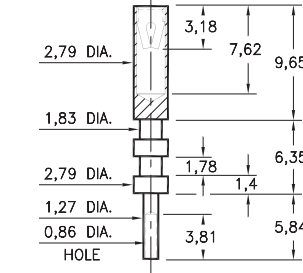
Wire crimp termination. Accepts wire sizes 16 AWG Max. / 20 AWG Min.



8067

8067-0-19-XX-13-XX-10-0

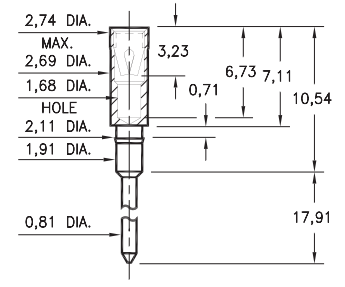
Wire crimp termination. Accepts wire sizes 24 AWG Max. / 28 AWG Min.



1105

1105-0-15-XX-13-XX-04-0

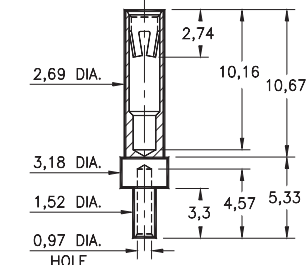
Press-fit in 2,03 mounting hole



8730

8730-0-19-XX-23-XX-10-0

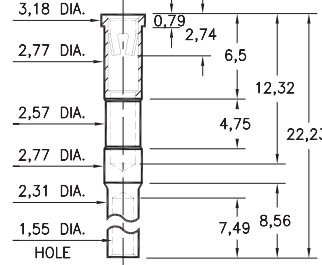
Wire crimp termination. Accepts wire sizes 22 AWG Max. / 26 AWG Min.



3667

3667-0-19-XX-23-XX-10-0

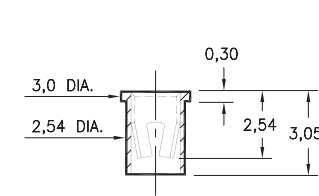
Wire crimp termination. Accepts wire sizes 18 AWG Max. / 22 AWG Min.



9372

9372-0-15-XX-23-XX-10-0

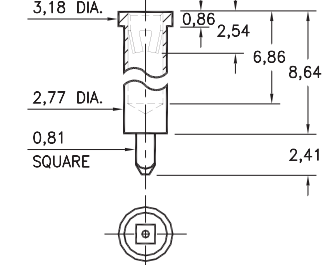
Solder mount in 2,59 min. mounting hole



4582

4582-0-15-XX-23-XX-10-0

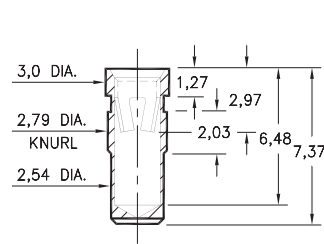
Square press-fit in 1,02 plated through-hole



5834

5834-0-15-XX-23-XX-10-0

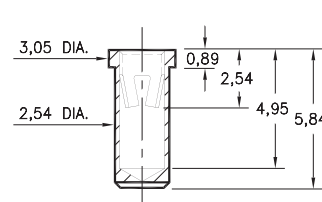
Press-fit in 2,72 mounting hole



9401

9401-0-15-XX-23-XX-10-0

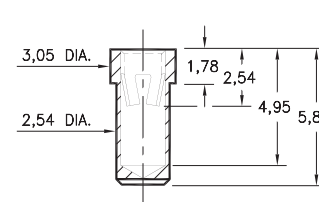
Solder mount in 2,59 min. mounting hole
 Also available on 24mm wide carrier tape:
 1,100 parts per 330mm reel
 Order as: 9401-0-57-XX-23-XX-10-0



9801

9801-0-15-XX-23-XX-10-0

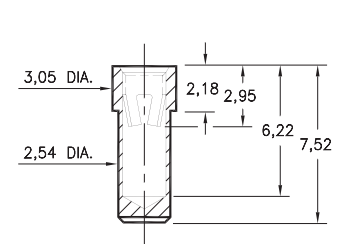
Solder mount in 2,59 min. mounting hole
 Also available on 16mm wide carrier tape:
 1,200 parts per 330mm reel
 Order as: 9801-0-57-XX-23-XX-10-0



8829

8829-0-15-XX-23-XX-10-0

Solder mount in 2,59 min. mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
 Diameters: $\pm 0,051$
 Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25μm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 27 0,76μm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#13 or #23 CONTACT (DATA ON PAGE 260)

(For alternate contact choices, see group G on page 248)



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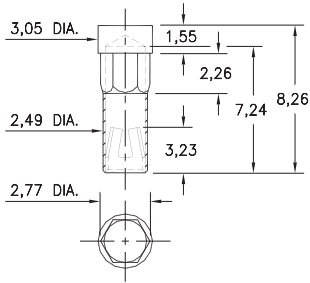
PIN RECEPTACLES

FOR 1,22 - 1,63 DIAMETER PINS (#13 CONTACT)
FOR 1,14 - 1,65 DIAMETER PINS (#23 CONTACT)

8365

8365-0-15-XX-13-XX-10-0

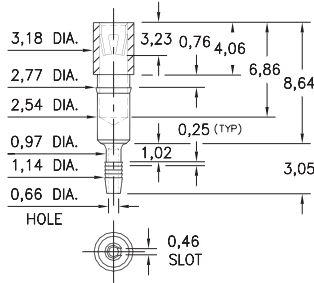
Hex press-fit in 2,69 plated through-hole



8996

8996-0-31-XX-13-XX-04-0

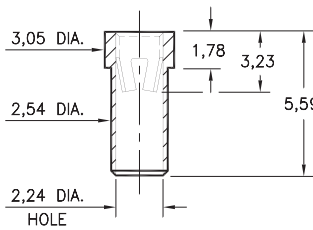
Compliant press-fit in 1,02 ±0,08 plated hole. For 1,52 → 2,54 thick board



9064

9064-0-15-XX-13-XX-10-0

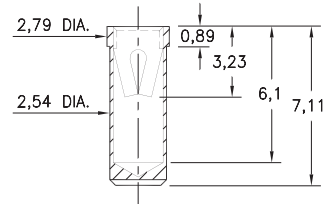
Solder mount in 2,59 min. mounting hole
 Also available on 16mm wide carrier tape:
 1,300 parts per 330mm reel
 Order as: 9064-0-57-XX-13-XX-10-0



9280

9280-0-15-XX-13-XX-10-0

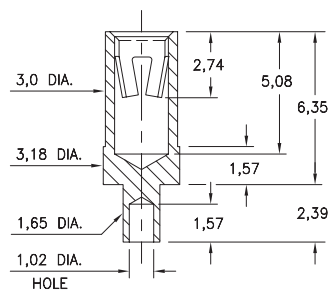
Solder mount in 2,59 min. mounting hole



4900

4900-0-19-XX-23-XX-10-0

Swage mount in 1,70 hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13

Diameters: ± 0,051

Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 5,08µm TIN/LEAD OVER NICKEL
- ◆ 80 5,08µm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 5,08µm TIN/LEAD OVER NICKEL
- ◆ 80 5,08µm TIN OVER NICKEL (RoHS)
- ◆ 27 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#13 or #23 CONTACT (DATA ON PAGE 260)

(For alternate contact choices, see group G on page 248)



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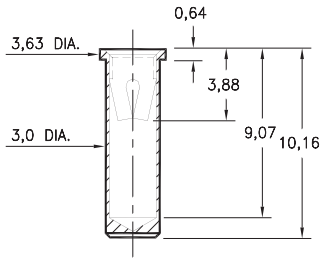
PIN RECEPTACLES

FOR 1,65 - 2,08 DIAMETER PINS

0394

0394-0-15-XX-07-XX-10-0

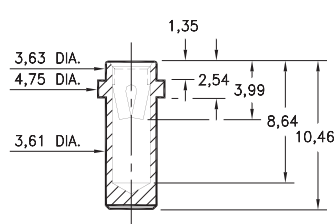
Solder mount in 3,05 min. mounting hole



0393

0393-0-15-XX-07-XX-10-0

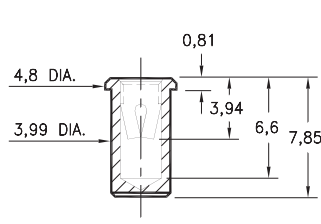
Solder mount in 3,66 min. mounting hole



0391

0391-0-15-XX-07-XX-10-0

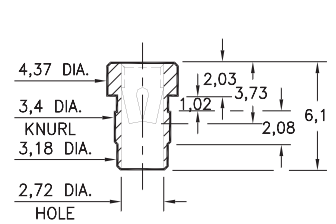
Solder mount in 4,04 min. mounting hole



9016

9016-0-15-XX-07-XX-10-0

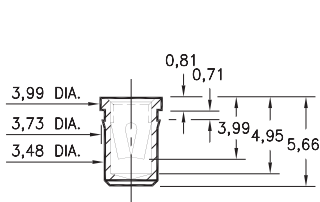
Press-fit in 3,33 mounting hole



0493

0493-0-15-XX-07-XX-10-0

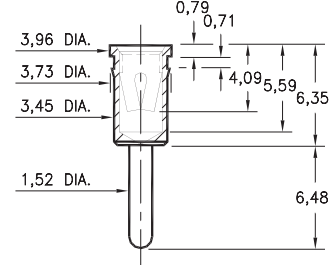
Press-fit in 3,66 mounting hole



0490

0490-0-15-XX-07-XX-04-0

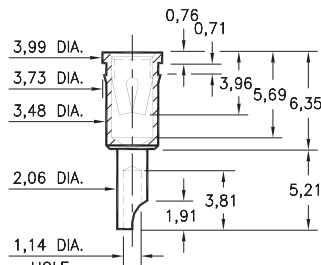
Press-fit in 3,66 mounting hole



0616

0616-0-18-XX-07-XX-10-0

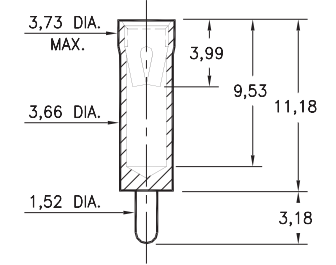
Press-fit in 3,66 mounting hole
Accepts wire sizes up to 0,89 dia.



0387

0387-0-15-XX-07-XX-04-0

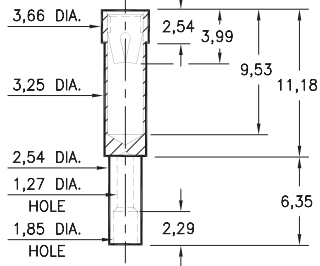
Solder mount in 1,60 min. mounting hole



0370

0370-0-19-XX-07-XX-10-0

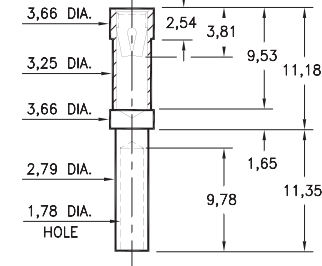
Wire crimp termination. Accepts wire sizes 20 AWG Max. / 24 AWG Min.



4040

4040-0-19-XX-07-XX-10-0

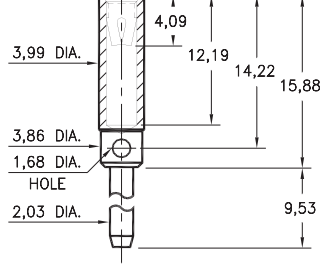
Wire crimp termination. Accepts wire sizes 16 AWG Max. / 20 AWG Min.



0491

0491-0-19-XX-07-XX-04-0

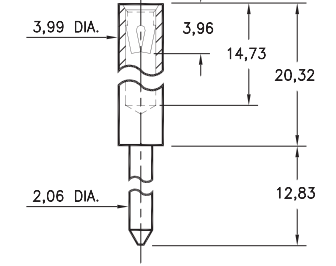
For use in stackable patch cords



9214

9214-0-15-XX-07-XX-10-0

Solder mount in 2,11 min. mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$

RoHS-2
2011/65/EU

ORDER CODE: XXXX - X - 1X - XX - 07 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 5,08 μ m TIN/LEAD OVER NICKEL
- 80 5,08 μ m TIN OVER NICKEL (RoHS)
- 15 0,25 μ m GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 5,08 μ m TIN/LEAD OVER NICKEL
- 80 5,08 μ m TIN OVER NICKEL (RoHS)
- 27 0,76 μ m GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#07 CONTACT (DATA ON PAGE 261)

(For alternate contact choices, see group H on page 248)



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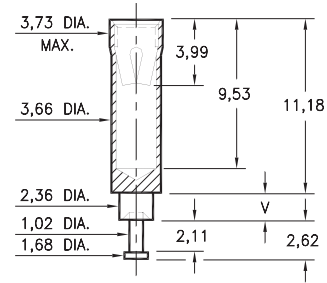
PIN RECEPTACLES

FOR 1,65 - 2,08 DIAMETER PINS

0395

0395-X-15-XX-07-XX-10-0

Swage mount in 2,44 hole

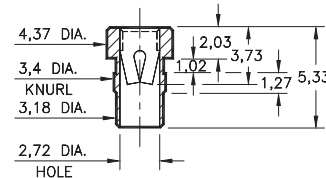


Basic Part Number	Board Thickness	Length V
0395-1	0,79	1,57
0395-2	1,57	2,39
0395-3	2,39	3,18
0395-4	3,18	3,96
0395-5	4,78	5,56

8016

8016-0-15-XX-07-XX-10-0

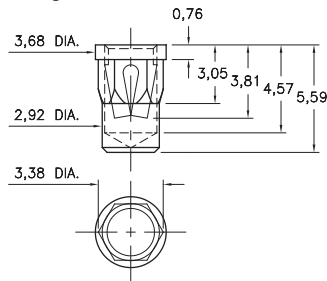
Press-fit in 3,33 mounting hole



0350

0350-0-15-XX-07-XX-10-0

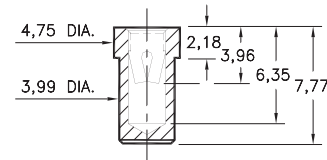
Hex press-fit in 3,28±0,05 plated through-hole



8837

8837-0-15-XX-14-XX-10-0

Solder mount in 4,04 min. mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13

Diameters: ± 0,051

Angles: ± 2°



ORDER CODE: XXXX - X - 15 - XX - XX - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 5,08µm TIN/LEAD OVER NICKEL
- ◆ 80 5,08µm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 5,08µm TIN/LEAD OVER NICKEL
- ◆ 80 5,08µm TIN OVER NICKEL (RoHS)
- ◆ 27 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#07 or #14 CONTACT (DATA ON PAGE 261)

(For alternate contact choices, see group H on page 248)



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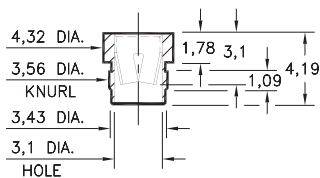
PIN RECEPTACLES

FOR 2,13 - 2,59 DIAMETER PINS

0388

0388-0-15-XX-08-XX-10-0

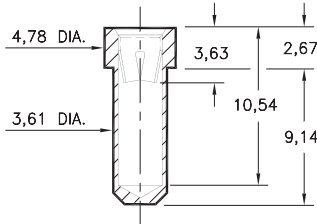
Press-fit in 3,51 mounting hole



0390

0390-0-15-XX-08-XX-10-0

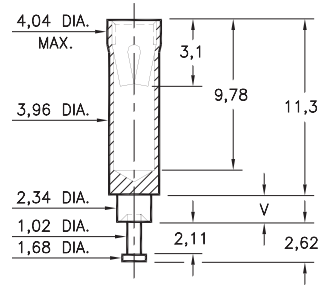
Solder mount in 3,66 min. mounting hole



0389

0389-X-15-XX-08-XX-10-0

Swage mount in 2,39 hole

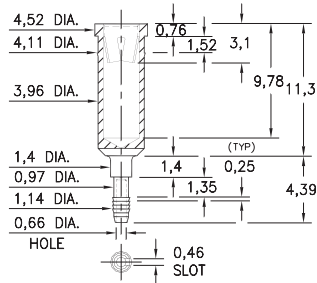


Basic Part Number	Board Thickness	Length V
0389-2	1,57	2,39
0389-3	2,39	3,18
0389-4	3,18	3,96

8963

8963-0-31-XX-08-XX-04-0

Compliant press-fit in 1,02 ± 0,08 plated hole. For 1,52 → 2,54 thick board



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2°



ORDER CODE: XXXX - X - XX - XX - 08 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 5,08µm TIN/LEAD OVER NICKEL
- ◆ 80 5,08µm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 5,08µm TIN/LEAD OVER NICKEL
- ◆ 80 5,08µm TIN OVER NICKEL (RoHS)
- ◆ 27 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#08 CONTACT (DATA ON PAGE 262)



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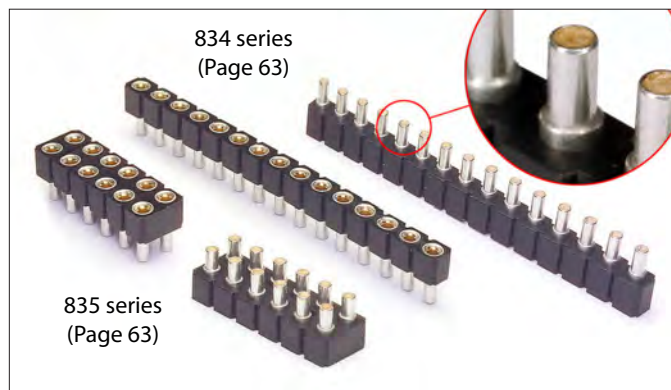
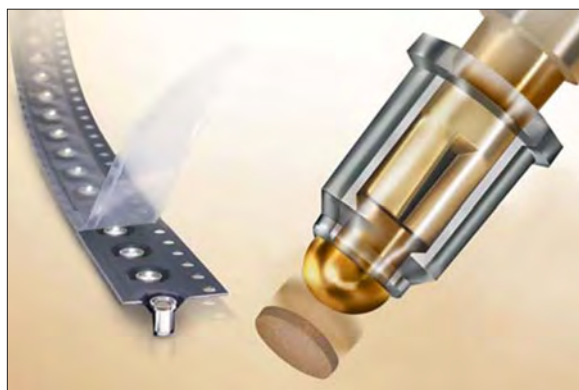
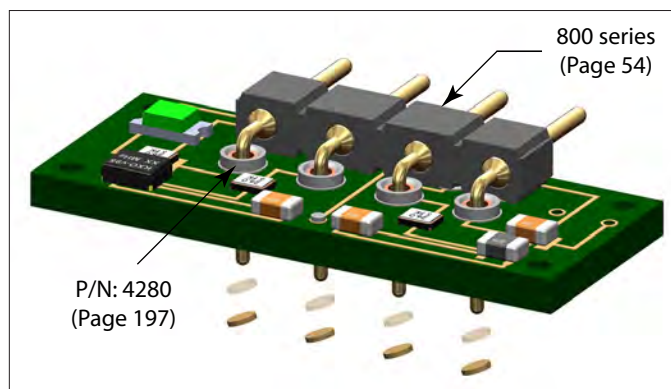
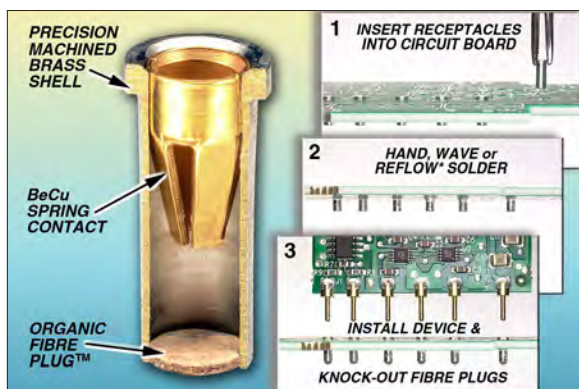
ORGANIC FIBRE PLUG® RECEPTACLES

RECEPTACLES WITH ORGANIC FIBRE PLUG® SOLDER BARRIER

Mill-Max's organic fibre plug (OFP®) solder barrier receptacles are discrete sockets for through-hole soldering into printed circuit boards. These open bottom receptacles are fitted with organic fibre plugs to prevent solder paste or flux from contaminating the internal contact during the pick & place and soldering process. When the device/mating lead is plugged into the receptacle, the OFP® is knocked out allowing the mating lead to pass through the fingers of the internal contact and make a reliable electrical connection.

OFP® receptacles are available to accommodate pin diameters from 0,20 - 2,59 (See pages 196 & 197 for the full line of standard OFP® receptacles). Packaging options are bulk or tape & reel (Per EIA- 481), standard reel size is 330mm. The advantage of tape & reel packaging is it allows these through-hole components to be placed simultaneously with surface mount parts on pick 'n place assembly lines -- eliminating the need to hand place the receptacles in an additional manufacturing step. The OFP® barrier permits the sockets to be vacuum picked from the tape prior to placement in the circuit board.

The knock-out-bottom feature enables these sockets to be made relatively short compared to many similar receptacles. The reduced length means minimal protrusion through the PCB. The open bottom receptacle design eliminates the need to trim long device leads that would otherwise bottom out in a closed design.



PIN RECEPTACLES

PIN RECEPTACLES WITH ORGANIC FIBRE PLUG® SOLDER BARRIER (SEE SPECIFIC CONTACT RANGE ON PAGES 250, 251 & 253)

- These through-hole (tubular) receptacles are designed for hand, wave or reflow* soldering. The **ORGANIC FIBRE PLUG®** barrier prevents solder paste or flux from contaminating the spring contact.
- After soldering, the **OFP®** barrier is pushed out of the receptacle when the device is plugged in.
- All parts are available as discrete receptacles or supplied on carrier tape per EIA-481 to feed industry standard pick and place machines.

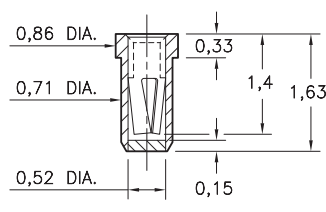
*Intrusive reflow (also called "pin-in-paste") is a technique of using conventional through-hole components in a reflow soldering process. The receptacles are placed into plated through-holes in the circuit board (solder paste has previously been screen printed on pads adjacent to the holes) and the board is reflowed in the same pass as other SMT components. Solder will fill the plated through-holes and achieve solder joints as reliable as wave soldering. The **OFP®** barrier prevents solder paste from being picked-up inside the contact during pick 'n place assembly. "Overprinting" paste on the solder mask can be used to adjust the volume of paste required to fill each hole.



4428

4428-0-XX-XX-04-XX-10-0

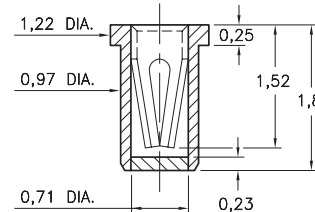
Solder mount in $\varnothing 0,81$ max. PTH
#04 Contact for $\varnothing 0,20 - 0,33$ pins
Also available on 16mm wide carrier tape:
3,400 parts per 330mm reel



5359

5359-0-XX-XX-10-XX-10-0

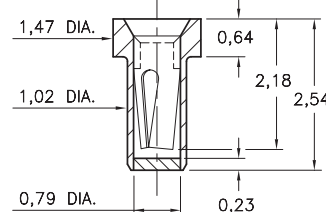
Solder mount in $\varnothing 1,09 \pm 0,08$ PTH
#10 Contact for $\varnothing 0,30 - 0,43$ pins
Also available on 16mm wide carrier tape:
3,000 parts per 330mm reel



0577

0577-0-XX-XX-21-XX-10-0

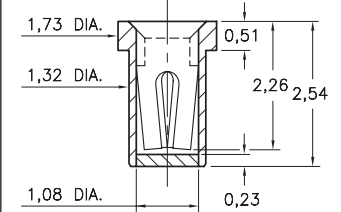
Solder mount in $\varnothing 1,14 \pm 0,08$ PTH
#21 Contact for $\varnothing 0,38 - 0,56$ pins
Also available on 12mm wide carrier tape:
3,000 parts per 330mm reel



4015

4015-0-XX-XX-30-XX-10-0

Solder mount in $\varnothing 1,45 \pm 0,08$ PTH
#30 Contact for $\varnothing 0,38 - 0,64$ pins
Also available on 8mm wide carrier tape:
5,500 parts per 330mm reel



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Solder Barrier: Organic Fibre Plug®

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - 0 - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY PACKAGING:

43 Discrete Receptacles

67 Supplied on 330mm Reels

SPECIFY SHELL FINISH:

01 5,08 μ m TIN/LEAD OVER NICKEL

◆ **80** 5,08 μ m TIN OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

◆ **27** 0,76 μ m GOLD OVER NICKEL (RoHS)

02 2,54 μ m TIN/LEAD OVER NICKEL

◆ **84** 5,08 μ m TIN OVER NICKEL (RoHS)

CONTACT:

#04, #10, #21 or #30 CONTACT (DATA ON PAGES 250, 251 & 253)



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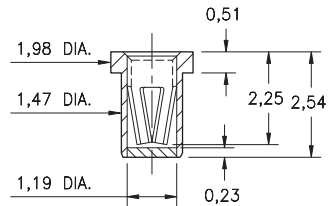
PIN RECEPTACLES

PIN RECEPTACLES WITH ORGANIC FIBRE PLUG® SOLDER BARRIER (SEE SPECIFIC CONTACT RANGE ON PAGES 254 - 262)

0337

0337-0-XX-XX-15-XX-10-0

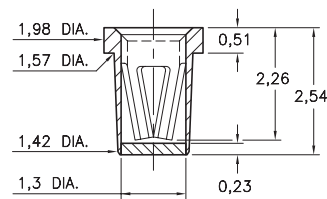
Solder mount in $\varnothing 1,68 \pm 0,08$ PTH
#15 Contact for $\varnothing 0,51 - 0,81$ pins
Also available on 8mm wide carrier tape:
6,000 parts per 330mm reel



4280

4280-0-XX-XX-16-XX-10-0

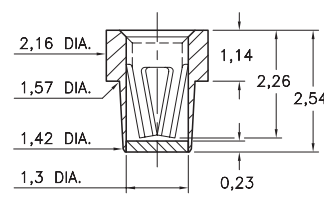
Solder mount in $\varnothing 1,7 \pm 0,08$ PTH
#16 Contact for $\varnothing 0,56 - 0,86$ pins
Also available on 8mm wide carrier tape:
6,000 parts per 330mm reel



5280

5280-0-XX-XX-16-XX-40-0

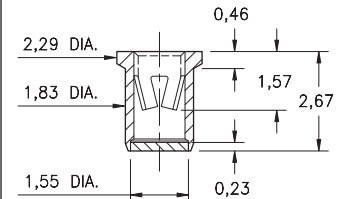
Solder mount in $\varnothing 1,7 \pm 0,08$ PTH
#16 Contact for $\varnothing 0,56 - 0,86$ pins
Also available on 16mm wide carrier tape:
2,200 parts per 330mm reel



0332

0332-0-XX-XX-18-XX-10-0

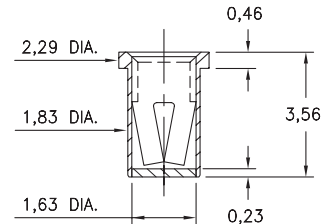
Solder mount in $\varnothing 2,01 \pm 0,08$ PTH
#18 Contact for $\varnothing 0,94 - 1,09$ pins
Also available on 16mm wide carrier tape:
2,200 parts per 330mm reel



0479

0479-0-XX-XX-34-XX-10-0

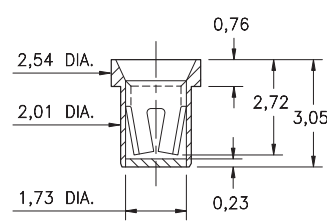
Solder mount in $\varnothing 1,96 \pm 0,08$ PTH
#34 Contact for $\varnothing 0,81 - 1,17$ pins
Also available on 16mm wide carrier tape:
2,200 parts per 330mm reel



0375

0375-0-XX-XX-02-XX-10-0

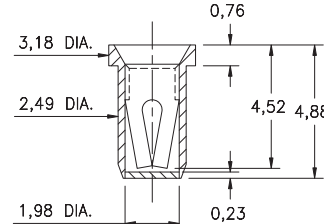
Solder mount in $\varnothing 2,21 \pm 0,08$ PTH
#02 Contact for $\varnothing 1,02 - 1,27$ pins
Also available on 12mm wide carrier tape:
4,500 parts per 330mm reel



0353

0353-0-XX-XX-03-XX-10-0

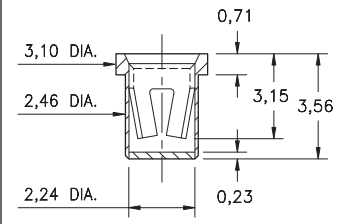
Solder mount in $\varnothing 2,69 \pm 0,08$ PTH
#03 Contact for $\varnothing 1,02 - 1,52$ pins
Also available on 12mm wide carrier tape:
1,300 parts per 330mm reel



0384

0384-0-XX-XX-23-XX-10-0

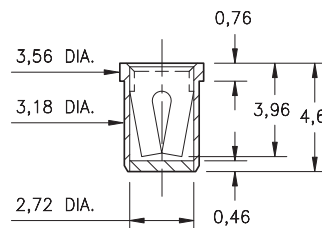
Solder mount in $\varnothing 2,67 \pm 0,08$ PTH
#23 Contact for $\varnothing 1,14 - 1,65$ pins
Also available on 12mm wide carrier tape:
2,000 parts per 330mm reel



0376

0376-0-XX-XX-07-XX-10-0

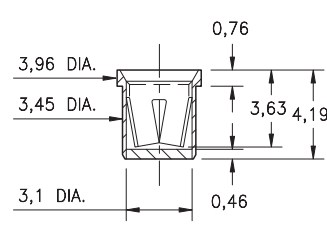
Solder mount in $\varnothing 3,38 \pm 0,08$ PTH
#07 Contact for $\varnothing 1,65 - 2,08$ pins
Also available on 16mm wide carrier tape:
1,500 parts per 330mm reel



0321

0321-0-XX-XX-08-XX-10-0

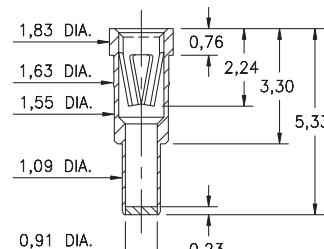
Solder mount in $\varnothing 3,66 \pm 0,08$ PTH
#08 Contact for $\varnothing 2,13 - 2,59$ pins
Also available on 16mm wide carrier tape:
1,700 parts per 330mm reel



3435

3435-0-XX-XX-47-XX-04-0

Solder mount in $\varnothing 1,17 \pm 0,08$ PTH
#47 Contact for $\varnothing 0,64 - 0,91$ and
0,64 square pins



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Solder Barrier: Organic Fibre Plug®

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - 0 - XX - XX - XX - XX - 0

BASIC PART

SPECIFY PACKAGING:

43 Discrete Receptacles

67 Supplied on 330mm Reels

SPECIFY SHELL FINISH:

01 5,08µm TIN/LEAD OVER NICKEL

◆ 80 5,08µm TIN OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

◆ 27 0,76µm GOLD OVER NICKEL (RoHS)

02 2,54µm TIN/LEAD OVER NICKEL

◆ 84 5,08µm TIN OVER NICKEL (RoHS)

CONTACT:

#02, #07, #08, #15, #16, #18, #23, #34 or #47 CONTACT (DATA ON PAGES 254 - 262)



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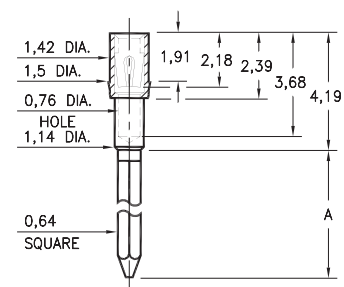
WRAPOST RECEPTACLES

FOR 0,38 - 0,64 DIAMETER PINS

1702/1703

170X-X-15-XX-30-XX-02-0

Press-fit in 1,45 mounting hole

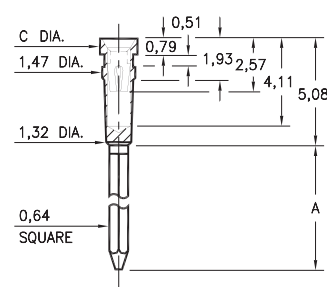


Basic Part Number	# of Wraps	Length A
1702-2	2	9,4
1703-3	3	12,95

0038⇒0040/0066⇒0068

00XX-X-17-XX-30-XX-02-0

Press-fit in 1,45 mounting hole

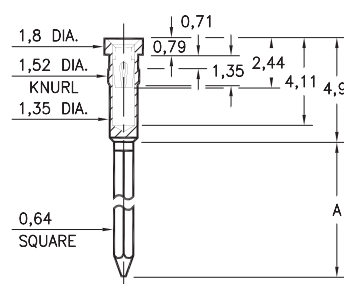


Basic Part #	# of Wraps	Length A	Dia. C
0040-1	1	6,6	
0039-2	2	9,14	1,83
0038-3	3	12,7	
0068-1	1	6,6	
0067-2	2	9,14	1,57
0066-3	3	12,7	

0086/0088/0089

008X-X-17-XX-3X-XX-02-0

Press-fit in 1,45 mounting hole

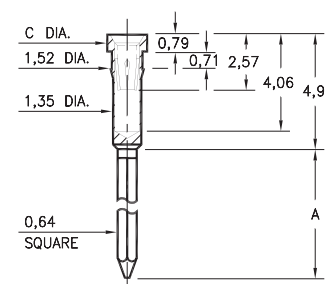


Basic Part Number	# of Wraps	Length A
0089-2	2	9,4
0088-3	3	12,95
0086-4	4	16,0

1030⇒1036

103X-X-17-XX-3X-XX-02-0

Press-fit in 1,45 mounting hole

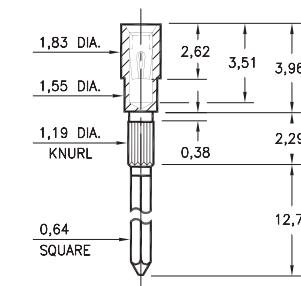


Basic Part #	# of Wraps	Length A	Dia. C
1032-1	1	6,6	
1031-2	2	9,14	1,83
1030-3	3	12,95	
1036-1	1	6,6	
1035-2	2	9,14	1,57
1034-3	3	12,95	

1045

1045-3-17-XX-30-XX-02-0

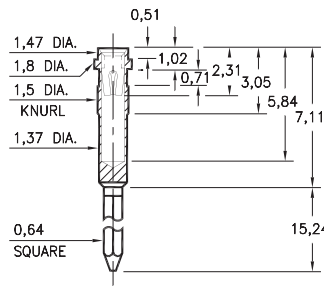
Press-fit in 1,09 mounting hole



1040

1040-3-17-XX-30-XX-02-0

Press-fit in 1,42 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2°

RoHS-2
2011/65/EU

ORDER CODE: XXXX - X - 17 - XX - XX - XX - 02 - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 5,08µm TIN/LEAD OVER NICKEL
- ◆ 80 5,08µm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 02 2,54µm TIN/LEAD OVER NICKEL
- ◆ 84 2,54µm TIN OVER NICKEL (RoHS)
- ◆ 27 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#30 or #32 CONTACT (DATA ON PAGE 253)

(For alternate contact choices, see groups B and C on page 248)



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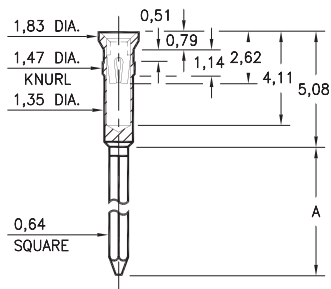
WRAPOST RECEPTACLES

FOR 0,38 - 0,64 DIAMETER PINS

0444

0444-X-17-XX-30-XX-02-0

Press-fit in 1,42 mounting hole

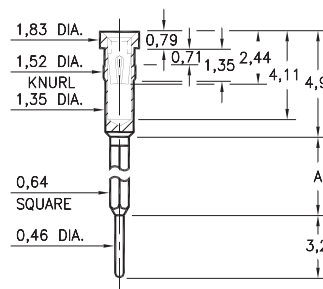


Basic Part Number	# of Wraps	Length A
0444-1	1	6,6
0444-2	2	9,4
0444-3	3	12,83

2601 ⇨ 2603

260X-0-17-XX-30-XX-02-0

Press-fit in 1,45 mounting hole

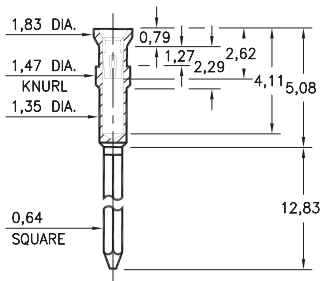


Basic Part Number	# of Wraps	Length A
2601-0	1	5,89
2602-0	2	8,89
2603-0	3	11,89

0445

0445-3-17-XX-30-XX-02-0

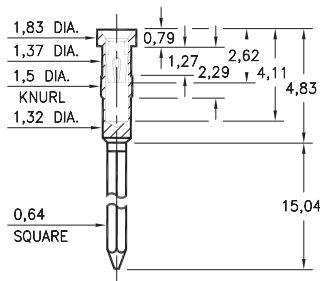
Press-fit in 1,42 mounting hole



1047

1047-3-17-XX-30-XX-02-0

Press-fit in 1,42 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13

Diameters: ± 0,051

Angles: ± 2°



ORDER CODE: XXXX - X - 17 - XX - 30 - XX - 02 - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 5,08µm TIN/LEAD OVER NICKEL
- ◆ 80 5,08µm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25µm GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 02 2,54µm TIN/LEAD OVER NICKEL
- ◆ 84 2,54µm TIN OVER NICKEL (RoHS)
- ◆ 27 0,76µm GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#30 or #32 CONTACT (DATA ON PAGE 253)

(For alternate contact choices, see groups B and C on page 248)



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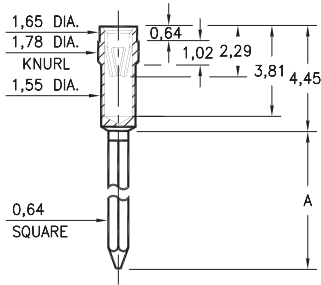
WRAPOST RECEPTACLES

FOR 0,56 - 0,81 DIAMETER PINS (#06 CONTACT)
FOR 0,56 - 0,86 DIAMETER PINS (#16 CONTACT)

2297

2297-X-17-XX-16-XX-02-0

Press-fit in 1,70 mounting hole

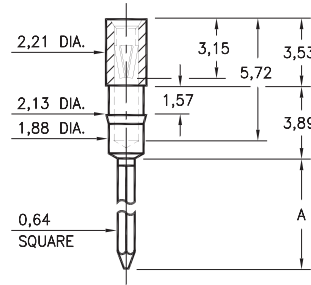


Basic Part Number	# of Wraps	Length A
2297-2	2	9,4
2297-3	3	10,92

0280

0280-X-17-XX-06-XX-02-0

Press-fit in 2,06 mounting hole

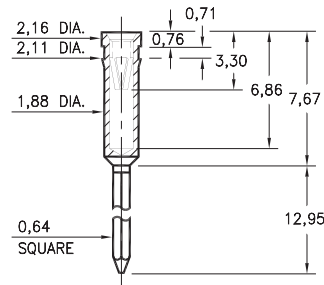


Basic Part Number	# of Wraps	Length A
0280-2	2	9,14
0280-3	3	12,95

0281

0281-3-17-XX-06-XX-02-0

Press-fit in 2,03 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
 Diameters: $\pm 0,051$
 Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 17 - XX - XX - XX - 02 - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01** 5,08 μ m TIN/LEAD OVER NICKEL
- 80** 5,08 μ m TIN OVER NICKEL (RoHS)
- 15** 0,25 μ m GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01** 5,08 μ m TIN/LEAD OVER NICKEL
- 80** 5,08 μ m TIN OVER NICKEL (RoHS)
- 27** 0,76 μ m GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#06 or #16 CONTACT (DATA ON PAGES 255 & 256)
 (For alternate contact choices, see group D on page 248)



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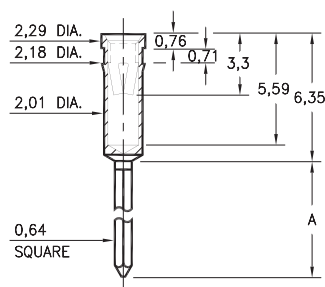
WRAPOST RECEPTACLES

FOR 0,81 - 1,17 DIAMETER PINS

1052/1053

105X-X-17-XX-34-XX-02-0

Press-fit in 2,11 mounting hole

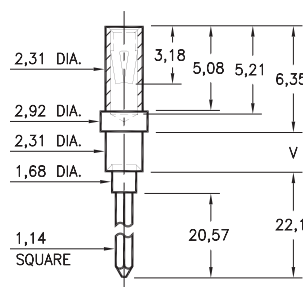


Basic Part Number	# of Wraps	Length A
1053-2	2	9,14
1052-3	3	13,08

0383

0383-X-17-XX-34-XX-02-0

Swage mount in 2,39 hole

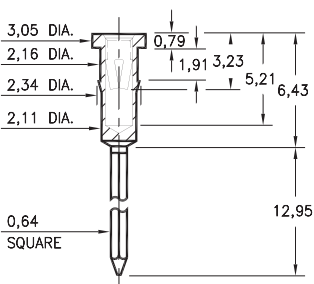


Basic Part Number	Board Thickness	Length V
0383-1	1,57	2,39
0383-2	2,39	3,18
0383-3	3,18	3,96

0382

0382-3-17-XX-34-XX-02-0

Press-fit in 2,26 mounting hole



SPECIFICATIONS:

Shell Material: Brass Alloy 360, 1/2 Hard

Contact Material: Beryllium Copper Alloy 172, HT

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$

RoHS-2
2011/65/EU

ORDER CODE: XXXX - X - 17 - XX - 34 - XX - 02 - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 5,08 μ m TIN/LEAD OVER NICKEL
- ◆ 80 5,08 μ m TIN OVER NICKEL (RoHS)
- ◆ 15 0,25 μ m GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH:

- 01 5,08 μ m TIN/LEAD OVER NICKEL
- ◆ 80 5,08 μ m TIN OVER NICKEL (RoHS)
- ◆ 27 0,76 μ m GOLD OVER NICKEL (RoHS)

SELECT CONTACT:

#34 CONTACT (DATA ON PAGE 258)

(For alternate contact choices, see group E on page 248)



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MALE PCB PINS





WWW.MILL-MAX.COM

MILL-MAX PRINTED CIRCUIT PINS ARE MACHINED INDIVIDUAL PINS USED FOR VARIOUS PLUG-IN APPLICATIONS AND ARE FUNCTIONALLY THE DYNAMIC BUILDING BLOCKS WITHIN AN INTERCONNECT SYSTEM.

Mill-Max offers a variety of pins in a broad range of diameters as well as turret, slotted, bifurcated (forked), soldercup and wrapost style pins. They are commonly fastened to printed circuit boards or other housings by being press-fit, swaged (riveted) or soldered.

PCB pins serve not only as a conductive path for an electrical circuit, but provide strength to an assembly module as a mechanical interface. Mill-Max Mfg. Corp. has developed thousands of state-of-the-art "basic pin" designs, featuring pin barrel geometries for our customers who require outside-the-box solutions to their interconnect needs.

In addition to the products found on the following pages, Mill-Max offers the following stock materials and diameters available for manufacture:

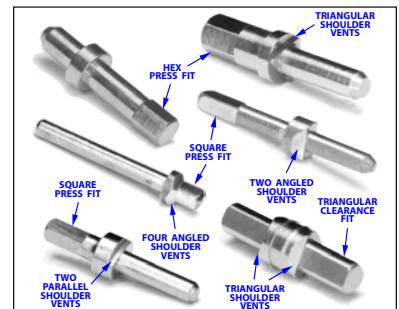
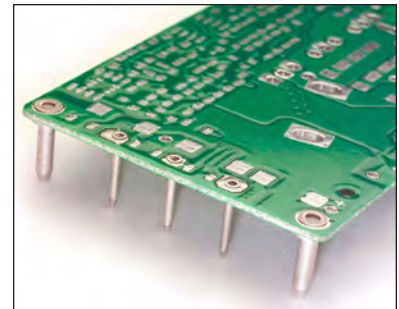
BRASS Alloy 360, 1/2 hard: 1,57/1,83/1,98/2,36/3,18/3,96/4,75/6,35 diameters

PHOSPHOR BRONZE Alloy 544: 1,57/1,83/1,98 diameters

TELLURIUM COPPER Alloy 145: 2,01/2,36/3,18/3,96 diameters

Mill-Max will gladly quote application specific products. Please complete the specification sheet on page **247** or send us your own drawings.

We assure you a fast response.



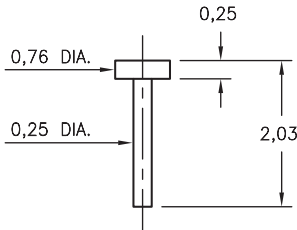
MALE PCB PINS

PRINTED CIRCUIT PINS • NAIL HEAD TYPE

4184

4184-0-00-XX-00-00-33-0

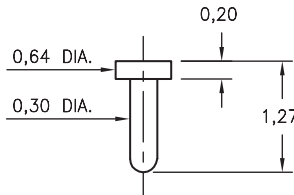
Solder mount in 0,36 mounting hole



9050

9050-0-00-XX-00-00-33-0

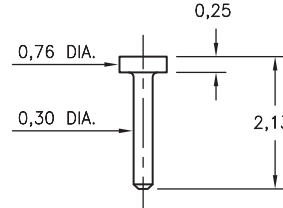
Solder mount in 0,41 mounting hole



4353

4353-0-00-XX-00-00-33-0

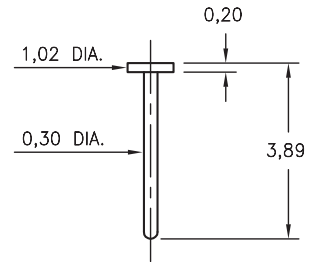
Solder mount in 0,41 mounting hole



9083

9083-0-00-XX-00-00-38-0

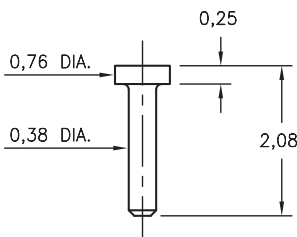
Solder mount in 0,41 mounting hole



4825

4825-0-00-XX-00-00-33-0

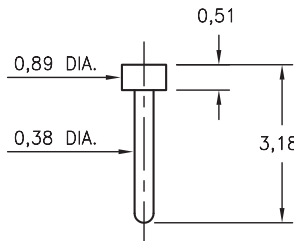
Solder mount in 0,48 mounting hole



4689

4689-0-00-XX-00-00-33-0

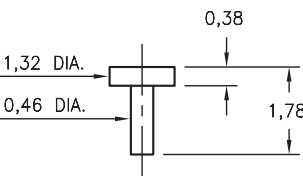
Solder mount in 0,48 mounting hole



4361

4361-0-00-XX-00-00-33-0

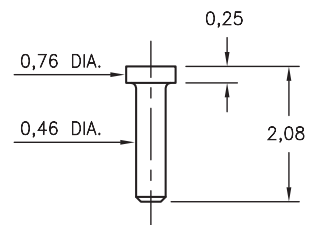
Solder mount in 0,56 mounting hole



4288

4288-0-00-XX-00-00-33-0

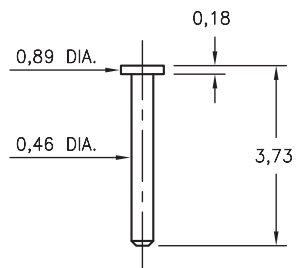
Solder mount in 0,56 mounting hole



4068

4068-0-00-XX-00-00-33-0

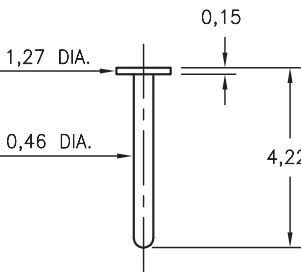
Solder mount in 0,56 mounting hole



9113

9113-0-00-XX-00-00-38-0

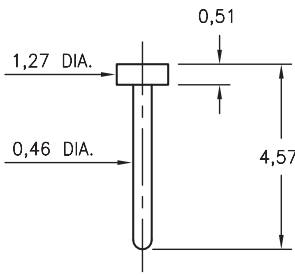
Solder mount in 0,56 mounting hole



9137

9137-0-00-XX-00-00-38-0

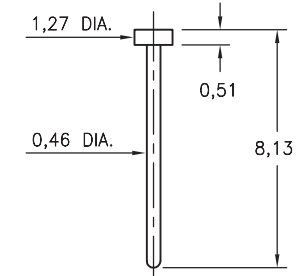
Solder mount in 0,56 mounting hole



5137

5137-0-00-XX-00-00-38-0

Solder mount in 0,56 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$

RoHS-2
2011/65/EU

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01** 5,08 μ m TIN/LEAD OVER NICKEL
- 80** 5,08 μ m TIN OVER NICKEL (RoHS)
- 15** 0,25 μ m GOLD OVER NICKEL (RoHS)
- 21** 0,51 μ m GOLD OVER NICKEL (RoHS)
- 34** 1,27 μ m GOLD OVER NICKEL (RoHS)



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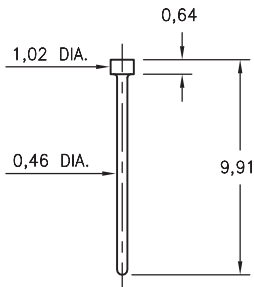
MALE PCB PINS

PRINTED CIRCUIT PINS • NAIL HEAD TYPE

4209

4209-0-00-XX-00-00-33-0

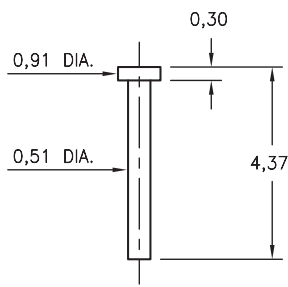
Solder mount in 0,56 mounting hole



5063

5063-0-00-XX-00-00-33-0

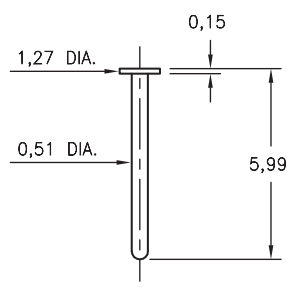
Solder mount in 0,61 mounting hole



4965

4965-0-00-XX-00-00-33-0

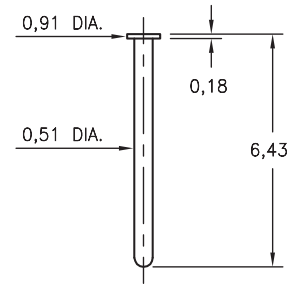
Solder mount in 0,61 mounting hole



6547

6547-0-00-XX-00-00-33-0

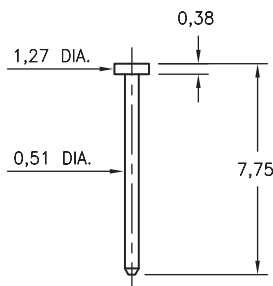
Solder mount in 0,61 mounting hole



4071

4071-0-00-XX-00-00-33-0

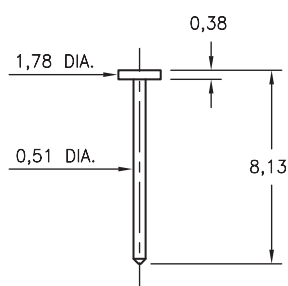
Solder mount in 0,61 mounting hole



8808

8808-0-00-XX-00-00-33-0

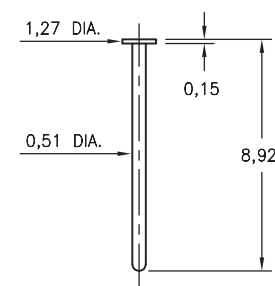
Solder mount in 0,61 mounting hole



4964

4964-0-00-XX-00-00-33-0

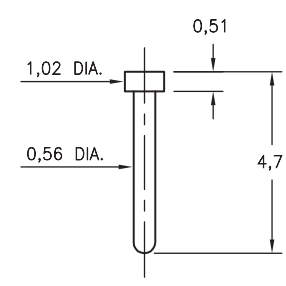
Solder mount in 0,61 mounting hole



9185

9185-0-00-XX-00-00-33-0

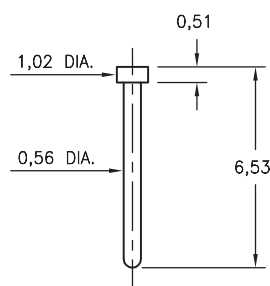
Solder mount in 0,67 mounting hole



8257

8257-0-00-XX-00-00-33-0

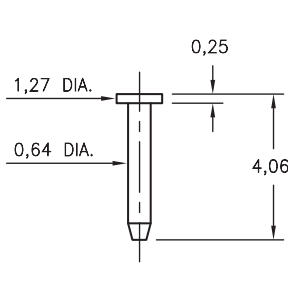
Solder mount in 0,66 mounting hole



5035

5035-0-00-XX-00-00-33-0

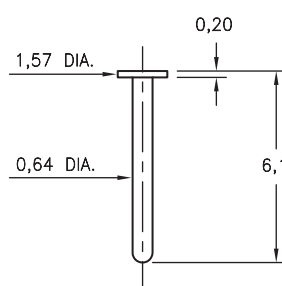
Solder mount in 0,74 mounting hole



5240

5240-0-00-XX-00-00-33-0

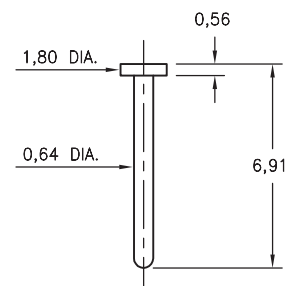
Solder mount in 0,74 mounting hole



2650

2650-0-00-XX-00-00-33-0

Solder mount in 0,74 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$

RoHS-2
2011/65/EU

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08 μ m TIN/LEAD OVER NICKEL
- ◆ 80 5,08 μ m TIN OVER NICKEL (RoHS)
- ◆ 15 0,25 μ m GOLD OVER NICKEL (RoHS)
- ◆ 21 0,51 μ m GOLD OVER NICKEL (RoHS)
- ◆ 34 1,27 μ m GOLD OVER NICKEL (RoHS)



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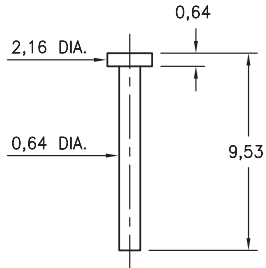
MALE PCB PINS

PRINTED CIRCUIT PINS • NAIL HEAD TYPE

5062

5062-0-00-XX-00-00-33-0

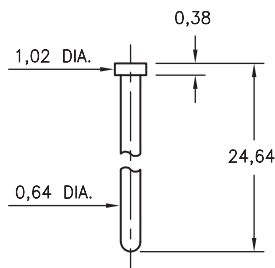
Solder mount in 0,74 mounting hole



8451

8451-0-00-XX-00-00-33-0

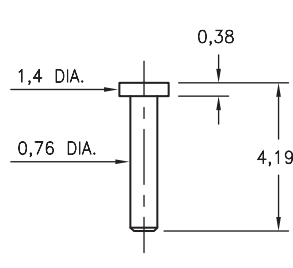
Solder mount in 0,74 mounting hole



6477

6477-0-00-XX-00-00-38-0

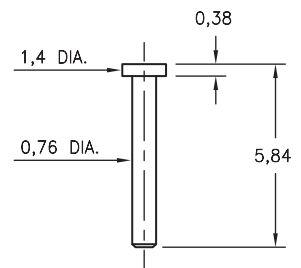
Solder mount in 0,86 mounting hole



4477

4477-0-00-XX-00-00-33-0

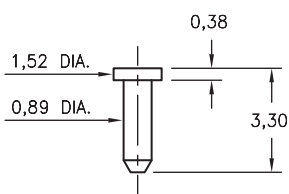
Solder mount in 0,86 mounting hole



4268

4268-0-00-XX-00-00-33-0

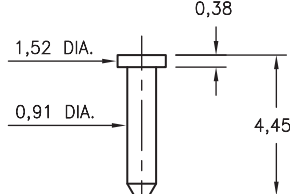
Solder mount in 0,99 mounting hole



9086

9086-0-00-XX-00-00-33-0

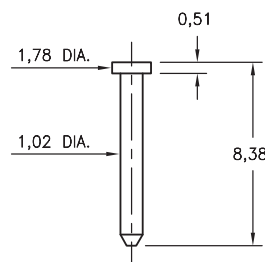
Solder mount in 1,02 mounting hole



8330

8330-0-00-XX-00-00-38-0

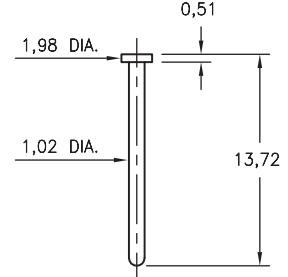
Solder mount in 1,12 mounting hole



9228

9228-0-00-XX-00-00-38-0

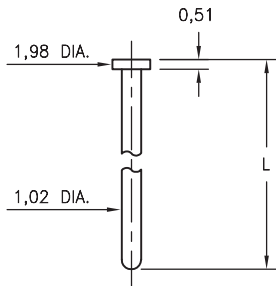
Solder mount in 1,12 mounting hole



6095

6095-X-00-XX-00-00-38-0

Solder mount in 1,12 mounting hole

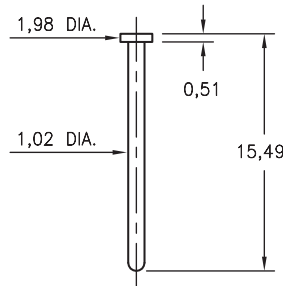


Basic Part Number	Length L
6095-0	14,73
6095-1	12,07

6092

6092-0-00-XX-00-00-33-0

Solder mount in 1,12 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25μm GOLD OVER NICKEL (RoHS)
- ◆ 21 0,51μm GOLD OVER NICKEL (RoHS)
- ◆ 34 1,27μm GOLD OVER NICKEL (RoHS)



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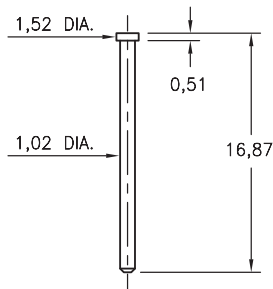
MALE PCB PINS

PRINTED CIRCUIT PINS • NAIL HEAD TYPE

1179

1179-0-00-XX-00-00-33-0

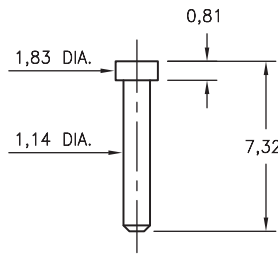
Solder mount in 1,12 mounting hole



9872

9872-0-00-XX-00-00-33-0

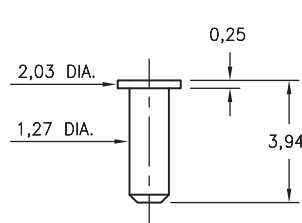
Solder mount in 1,24 mounting hole



2381

2381-0-00-XX-00-00-33-0

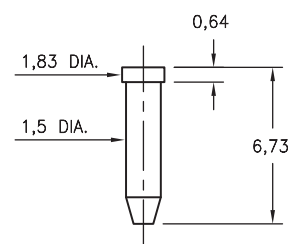
Solder mount in 1,37 mounting hole



9265

9265-0-00-XX-00-00-38-0

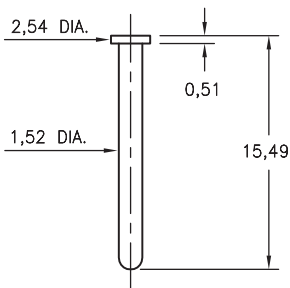
Solder mount in 1,6 mounting hole



6142

6142-0-00-XX-00-00-33-0

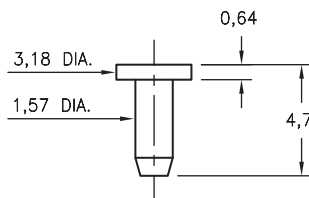
Solder mount in 1,63 mounting hole



9022

9022-0-00-XX-00-00-33-0

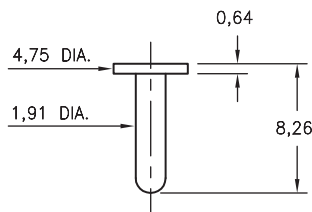
Solder mount in 1,68 mounting hole
Also available on 24mm wide carrier tape:
1,500 parts per 330mm reel.
Order as: 9022-0-57-XX-00-00-33-0



8086

8086-0-00-XX-00-00-33-0

Solder mount in 2,01 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - 0 - 00 - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08 μ m TIN/LEAD OVER NICKEL
- ◆ 80 5,08 μ m TIN OVER NICKEL (RoHS)
- ◆ 15 0,25 μ m GOLD OVER NICKEL (RoHS)
- ◆ 21 0,51 μ m GOLD OVER NICKEL (RoHS)
- ◆ 34 1,27 μ m GOLD OVER NICKEL (RoHS)



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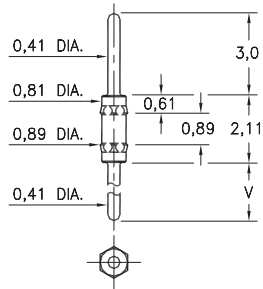
MALE PCB PINS

PRINTED CIRCUIT PINS

4006

4006-X-00-XX-00-00-03-0

Hex press-fit in 0,86 mounting hole

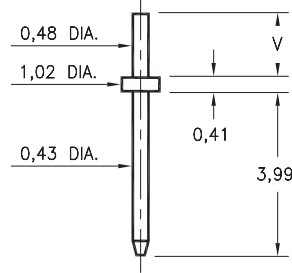


Basic Part Number	Length V
4006-0	3,0
4006-1	4,78
4006-2	7,32

3121

3121-X-00-XX-00-00-08-0

Solder mount in 0,58 mounting hole
Material is annealed.

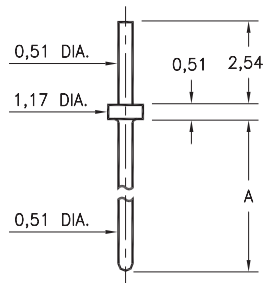


Basic Part Number	Substrate Thickness	Length V
3121-1	0,64	1,55
3121-2	1,02	1,91

3128

3128-X-00-XX-00-00-08-0

Solder mount in 0,61 min. mounting hole

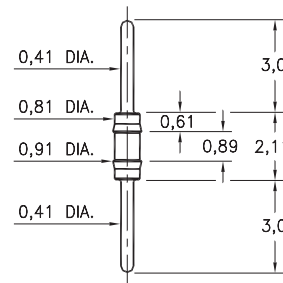


Basic Part Number	Length A
3128-1	6,35
3128-2	10,8
3128-3	13,34
3128-4	14,22
3128-5	23,62

3006

3006-0-00-XX-00-00-03-0

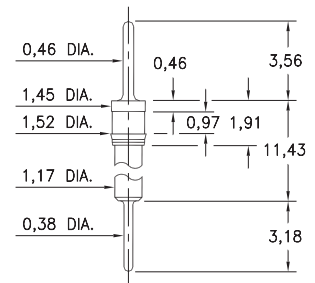
Press-fit in 0,86 mounting hole



8885

8885-0-00-XX-00-00-03-0

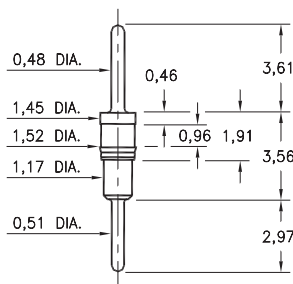
Press-fit in 1,45 mounting hole



6218

6218-0-00-XX-00-00-03-0

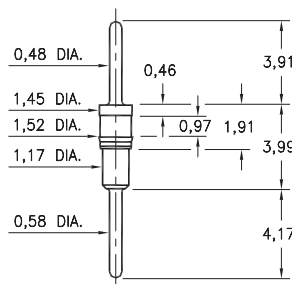
Press-fit in 1,45 mounting hole



5012

5012-0-00-XX-00-00-03-0

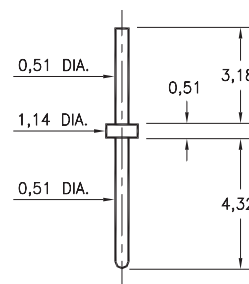
Press-fit in 1,45 mounting hole



9081

9081-0-00-XX-00-00-08-0

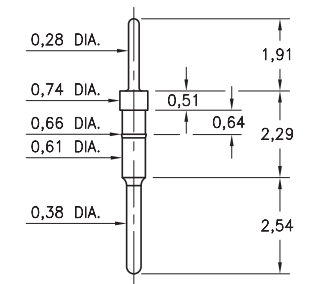
Solder mount in 0,61 mounting hole



3039

3039-0-00-15-00-00-03-0

Press-fit in .025 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25μm GOLD OVER NICKEL (RoHS)
- ◆ 21 0,51μm GOLD OVER NICKEL (RoHS)
- ◆ 34 1,27μm GOLD OVER NICKEL (RoHS)



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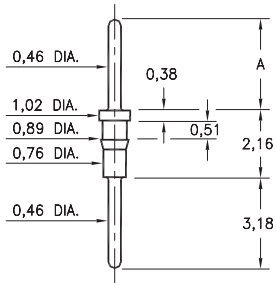
MALE PCB PINS

PRINTED CIRCUIT PINS

8685/9036

XXXX-0-00-XX-00-00-03-0

Press-fit in 0,84 mounting hole
Pin material is Phosphor Bronze 544 (B2)

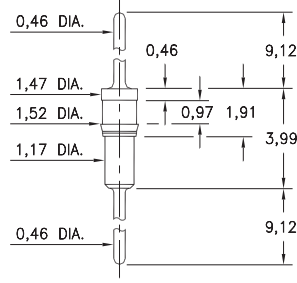


Basic Part Number	Length A
8685-0	3,18
9036-0	4,45

9051

9051-0-00-XX-00-00-03-0

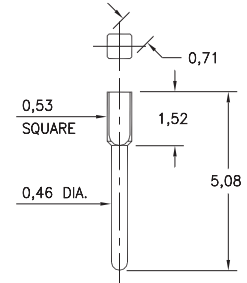
Press-fit in 1,45 mounting hole



8969

8969-0-05-XX-00-00-03-0

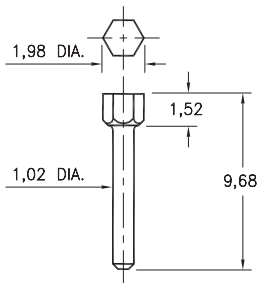
Square press-fit in 0,58 plated through-hole (Use .7mm drill prior to plating)



8979

8979-0-00-XX-00-00-03-0

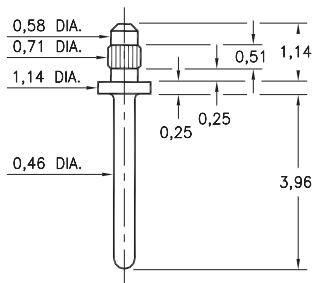
Hex press-fit in 1,88 plated through-hole



9159

9159-0-00-XX-00-00-03-0

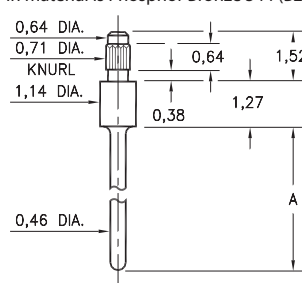
Press-fit in 0,66 mounting hole



3155/5155

X155-0-00-XX-00-00-03-0

Press-fit in 0,66 mounting hole
Pin material is Phosphor Bronze 544 (B2)

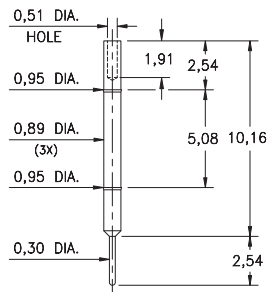


Basic Part Number	Length A
3155-0	4,57
5155-0	3,30

4194

4194-0-00-XX-00-00-08-0

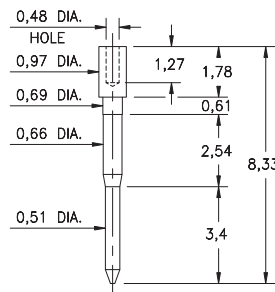
Wire termination and press-fit in 0,91 hole



5556

5556-0-00-XX-00-00-38-0

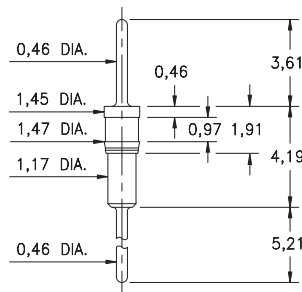
Wire termination



3790

3790-0-00-XX-00-00-03-0

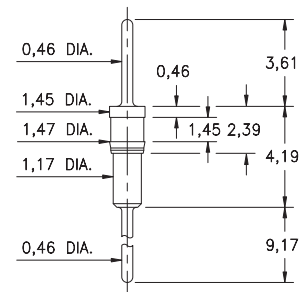
Press-fit in 1,45 mounting hole



3796

3796-0-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25μm GOLD OVER NICKEL (RoHS)
- ◆ 21 0,51μm GOLD OVER NICKEL (RoHS)
- ◆ 34 1,27μm GOLD OVER NICKEL (RoHS)



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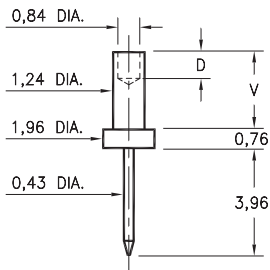
MALE PCB PINS

PRINTED CIRCUIT PINS

3116

3116-X-00-XX-00-00-08-0

Swage mount in 1,32 hole

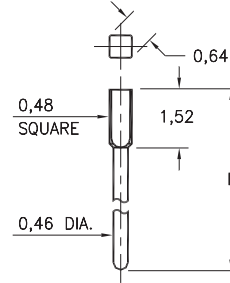


Basic Part Number	Board Thickness	Length V	Depth D
3116-1	0,79	1,30	0,89
3116-2	1,57	2,08	1,57
3116-3	2,39	2,87	1,57
3116-4	3,18	3,68	1,57

5435

5435-X-05-XX-00-00-03-0

Square press-fit in 0,56 plated through-hole

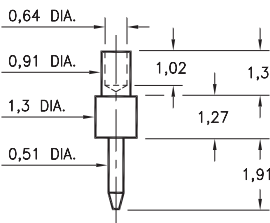


Basic Part Number	Length L
5435-0	7,70
5435-1	5,08
5435-2	10,49

3135

3135-1-00-XX-00-00-08-0

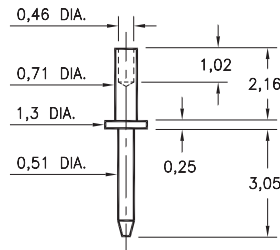
Swage mount in 1,02 hole
For 0,79 thick board



3210

3210-2-00-XX-00-00-08-0

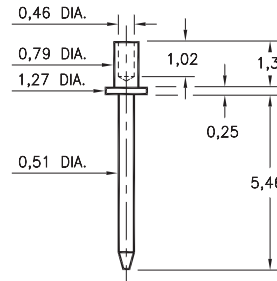
Swage mount in 0,79 hole
For 1,57 thick board



3129

3129-1-00-XX-00-00-08-0

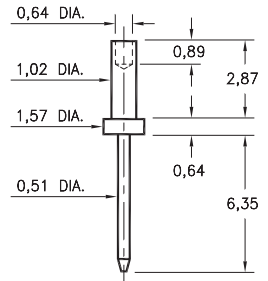
Swage mount in 0,89 hole
For 0,79 thick board



3147

3147-3-00-XX-00-00-08-0

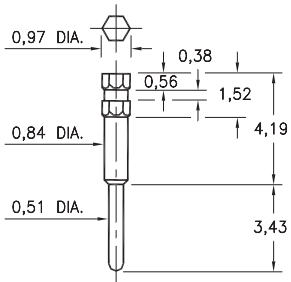
Swage mount in 1,09 hole
For 2,39 thick board



4366

4366-0-00-XX-00-00-03-0

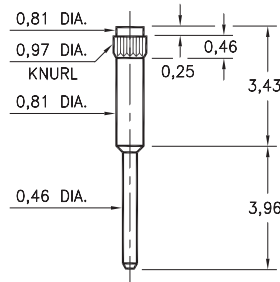
Hex press-fit in 0,86 plated through-hole



1267

1267-0-00-XX-00-00-03-0

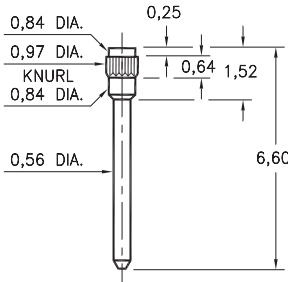
Press-fit in 0,89 mounting hole



7827

7827-0-00-XX-00-00-03-0

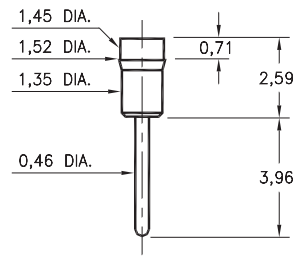
Press-fit in 0,89 mounting hole



1130

1130-0-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole
Pin material is Phosphor Bronze 544 (B2)



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25μm GOLD OVER NICKEL (RoHS)
- ◆ 21 0,51μm GOLD OVER NICKEL (RoHS)
- ◆ 34 1,27μm GOLD OVER NICKEL (RoHS)



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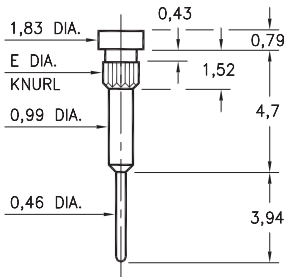
MALE PCB PINS

PRINTED CIRCUIT PINS

1067

1067-X-00-XX-00-00-03-0

Press-fit in 1,07/1,40 mounting hole

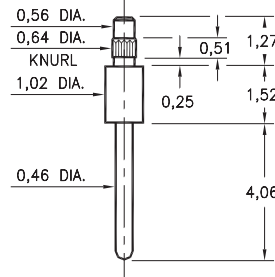


Basic Part Number	Knurl Dia. E	Mounting Hole
1067-1	1,47	1,40
1067-2	1,14	1,07

3158

3158-0-00-XX-00-00-03-0

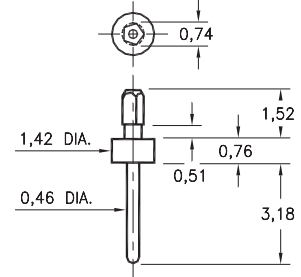
Press-fit in 0,58 mounting hole



9000

9000-0-00-XX-00-00-03-0

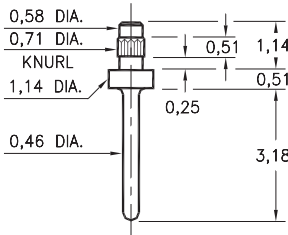
Pentagonal press-fit in 0,64 plated through-hole



3157

3157-0-00-XX-00-00-03-0

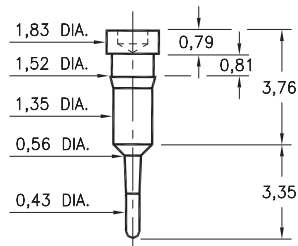
Press-fit in 0,66 mounting hole



0915

0915-0-00-XX-00-00-03-0

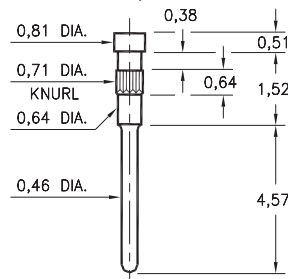
Press-fit in 1,45 mounting hole



3154

3154-0-00-XX-00-00-03-0

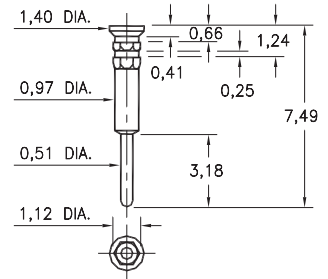
Press-fit in 0,66 mounting hole
Pin material is Phosphor Bronze 544 (B2)



0542

0542-0-00-XX-00-00-03-0

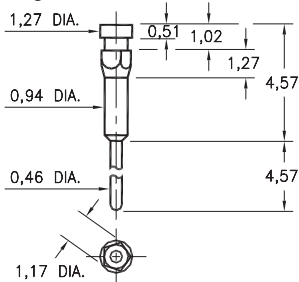
Hex press-fit in 0,99 plated through-hole



0522

0522-0-00-XX-00-00-03-0

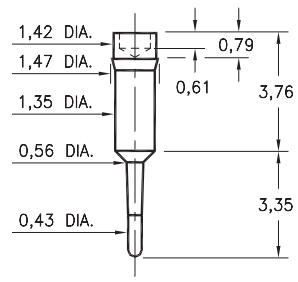
Pentagonal press-fit in 1,07 plated through-hole



0952

0952-0-00-XX-00-00-03-0

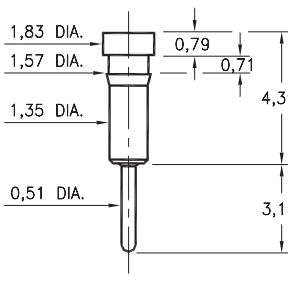
Press-fit in 1,42 mounting hole



0257

0257-0-00-XX-00-00-03-0

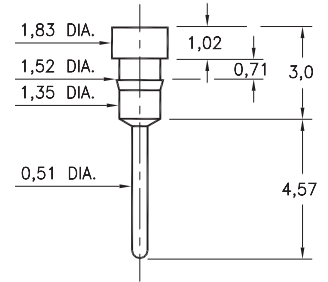
Press-fit in 1,50 mounting hole



8940

8940-0-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$

RoHS-2
2011/65/EU

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 03 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25μm GOLD OVER NICKEL (RoHS)
- ◆ 21 0,51μm GOLD OVER NICKEL (RoHS)
- ◆ 34 1,27μm GOLD OVER NICKEL (RoHS)



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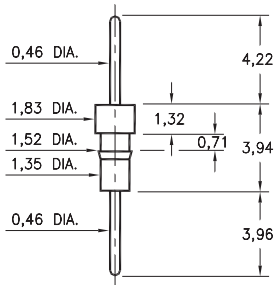
MALE PCB PINS

PRINTED CIRCUIT PINS

0504/0505

050X-0-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole



Basic Part Number

0504-0
0505-0

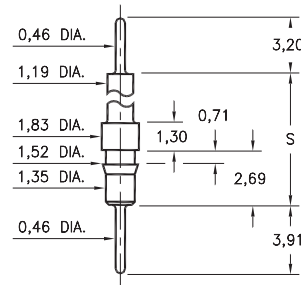
Pin Material

Phosphor Bronze 544
Brass 360

5510/5511

551X-0-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole



Basic Part Number

5510-0
5511-0

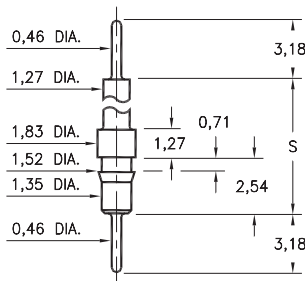
Standoff Height S

8,41
15,39

4259

4259-X-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole



Basic Part Number

4259-1
4259-2
4259-3
4259-4

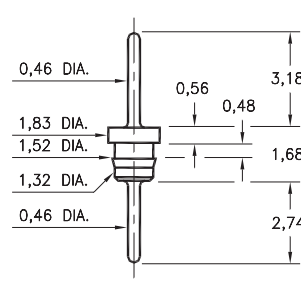
Standoff Height S

5,33
8,51
14,86
21,21

3516

3516-0-00-XX-00-00-03-0

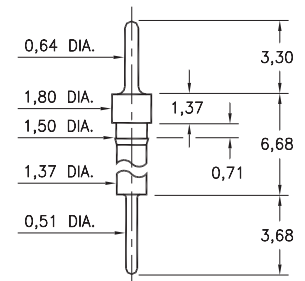
Press-fit in 1,45 mounting hole



8859

8859-0-00-XX-00-00-03-0

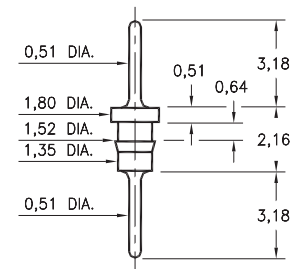
Press-fit in 1,42 mounting hole



6585

6585-0-00-XX-00-00-03-0

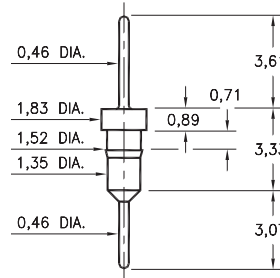
Press-fit in 1,45 mounting hole
Pin material is Phosphor Bronze 544 (B2)



3404

3404-0-00-XX-00-00-03-0

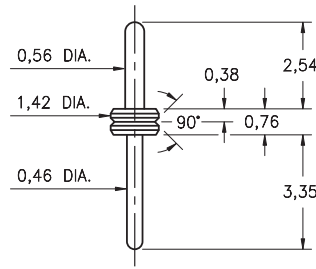
Press-fit in 1,45 mounting hole



3169

3169-0-00-15-00-00-03-0

V-Groove Header Pin
Also available on Kapton Tape



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 03 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08 μ m TIN/LEAD OVER NICKEL
- ◆ 80 5,08 μ m TIN OVER NICKEL (RoHS)
- ◆ 15 0,25 μ m GOLD OVER NICKEL (RoHS)
- ◆ 21 0,51 μ m GOLD OVER NICKEL (RoHS)
- ◆ 34 1,27 μ m GOLD OVER NICKEL (RoHS)



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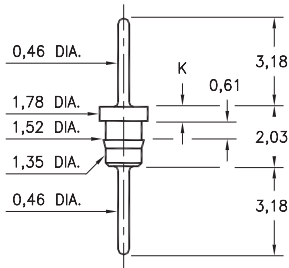
MALE PCB PINS

PRINTED CIRCUIT PINS

1752/6458

XXXX-0-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole

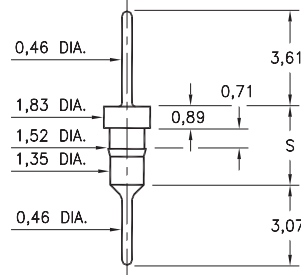


Basic Part Number	Length K
1752-0	0,51
6458-0	0,89

3413/8404

X4XX-0-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole

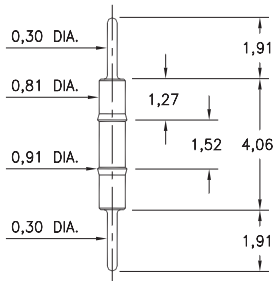


Basic Part Number	Length S
3413-0	3,0
8404-0	3,33

9075

9075-0-00-XX-00-00-03-0

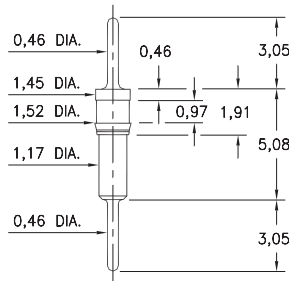
Press-fit in 0,86 mounting hole



9218

9218-0-00-XX-00-00-03-0

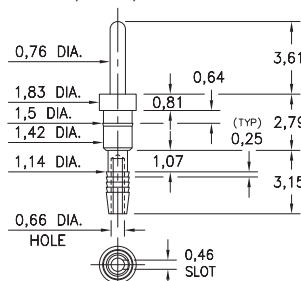
Press-fit in 1,45 mounting hole



5607

5607-0-01-XX-00-00-03-0

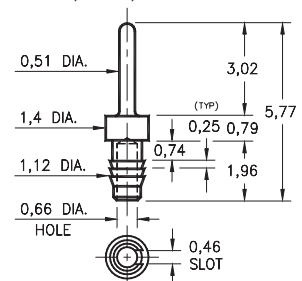
Compliant press-fit in 1,02 ± 0,08 plated hole. For 1,52 → 2,54 thick board



2617

2617-0-01-XX-00-00-03-0

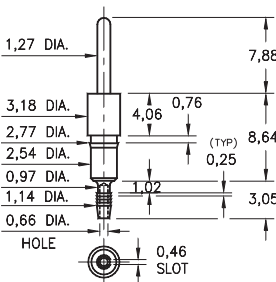
Compliant press-fit in 1,02 ± 0,08 plated hole. For 1,52 → 2,54 thick board



8995

8995-0-01-XX-00-00-03-0

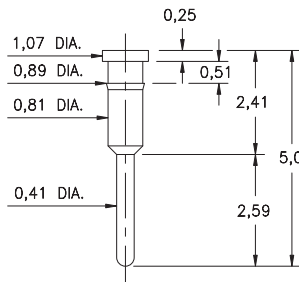
Compliant press-fit in 1,02 ± 0,08 plated hole. For 1,52 → 2,54 thick board



1933

1933-0-00-XX-00-00-03-0

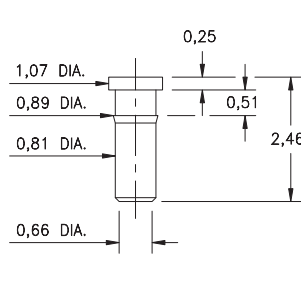
Press-fit in 0,86 mounting hole



1935

1935-0-00-XX-00-00-03-0

Press-fit in 0,86 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2°



ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - 03 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08µm TIN/LEAD OVER NICKEL
- ◆ 80 5,08µm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25µm GOLD OVER NICKEL (RoHS)
- ◆ 21 0,51µm GOLD OVER NICKEL (RoHS)
- ◆ 34 1,27µm GOLD OVER NICKEL (RoHS)



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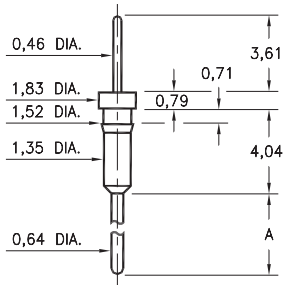
MALE PCB PINS

PRINTED CIRCUIT PINS

3409

3409-X-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole



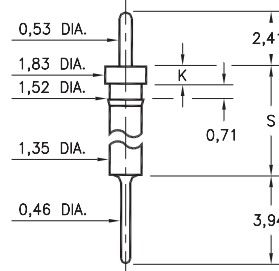
Basic Part Number	Pin Length A
3409-1	5,33
3409-2	10,67

0315

0315-0-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole

Pin material is Phosphor Bronze 544 (B2)

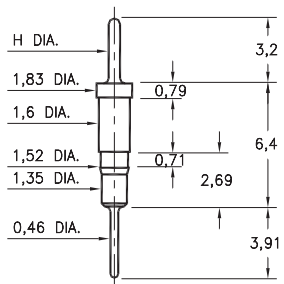


Basic Part Number	Head Height K	Standoff Height S
0315-0	0,76	4,83
0315-1	1,02	10,92

5503/5509

550X-X-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole

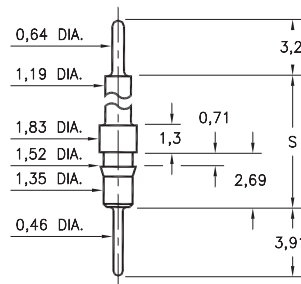


Basic Part Number	Pin Diameter H
5503-0	0,64
5509-0	0,46

5504/5505

550X-0-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole

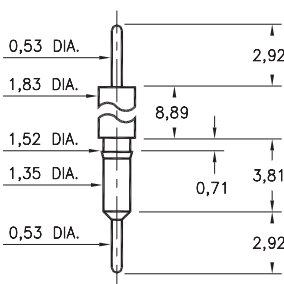


Basic Part Number	Standoff Height S
5504-0	8,41
5505-0	15,39

3406

3406-0-00-XX-00-00-03-0

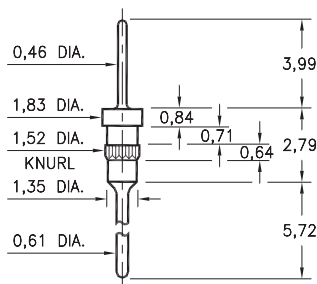
Press-fit in 1,45 mounting hole



5011

5011-0-00-XX-00-00-03-0

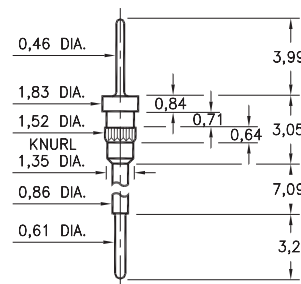
Press-fit in 1,45 mounting hole



5113

5113-0-00-XX-00-00-03-0

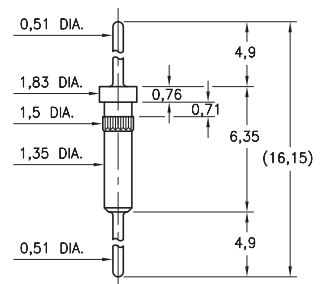
Press-fit in 1,45 mounting hole



3900

3900-0-00-15-00-00-03-0

Press-fit in 1,45 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 03 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25μm GOLD OVER NICKEL (RoHS)
- ◆ 21 0,51μm GOLD OVER NICKEL (RoHS)
- ◆ 34 1,27μm GOLD OVER NICKEL (RoHS)



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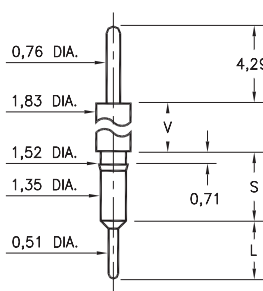
MALE PCB PINS

PRINTED CIRCUIT PINS

3400⇒3402/3405/3410

34XX-0-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole

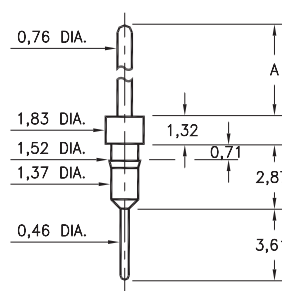


Basic Part Number	Shoulder Height V	Length S	Length L
3402-0	1,32	3,51	2,92
3401-0	2,54	3,45	2,92
3405-0	4,29	3,71	2,92
3400-0	11,71	3,68	2,92
3410-0	23,72	3,45	3,15

3411

3411-X-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole

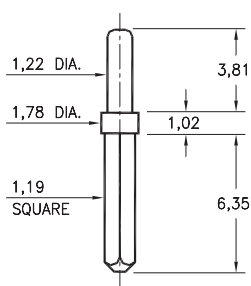


Basic Part Number	Pin Length A
3411-0	10,59
3411-1	5,51

0600

0600-0-05-XX-00-00-01-0

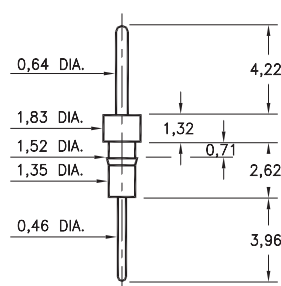
Solder mount 1,32 mounting hole



0290

0290-0-00-XX-00-00-03-0

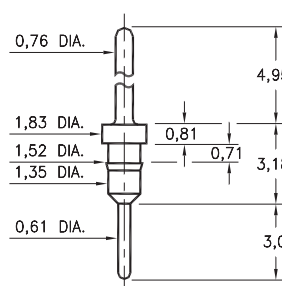
Press-fit in 1,45 mounting hole



7007

7007-0-00-XX-00-00-03-0

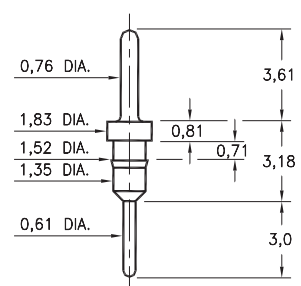
Press-fit in 1,45 mounting hole



5016

5016-0-00-XX-00-00-03-0

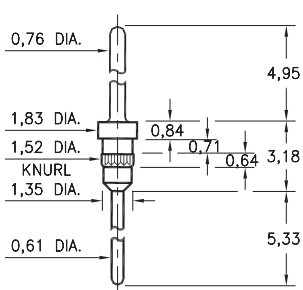
Press-fit in 1,45 mounting hole



5005

5005-0-00-XX-00-00-03-0

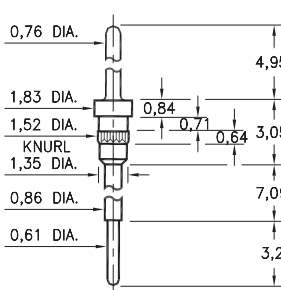
Press-fit in 1,45 mounting hole



5107

5107-0-00-XX-00-00-03-0

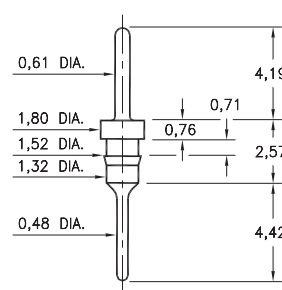
Press-fit in 1,45 mounting hole



8919

8919-0-00-XX-00-00-03-0

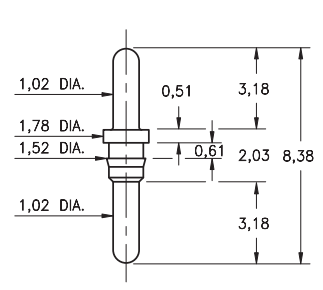
Press-fit in 1,45 mounting hole



3077

3077-0-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25μm GOLD OVER NICKEL (RoHS)
- ◆ 21 0,51μm GOLD OVER NICKEL (RoHS)
- ◆ 34 1,27μm GOLD OVER NICKEL (RoHS)



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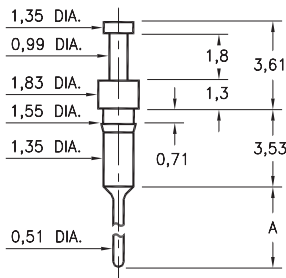
MALE PCB PINS

PRINTED CIRCUIT PINS

3408

3408-X-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole



Basic Part
Number

Pin
Length
A

3408-1

3,07

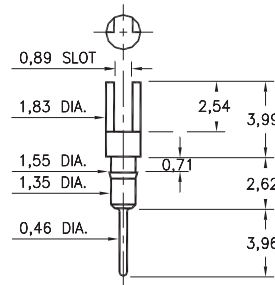
3408-2

4,60

0270/0282

02XX-0-01-XX-00-00-03-0

Press-fit in 1,45 mounting hole



Basic Part
Number

Pin Material

0270-0

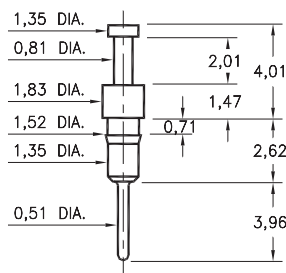
0282-0

Phosphor Bronze 544
Brass 360

0700

0700-0-00-XX-00-00-03-0

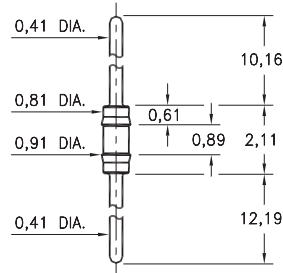
Press-fit in 1,45 mounting hole



8006

8006-0-00-XX-00-00-03-0

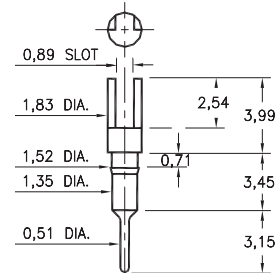
Press-fit in 0,86 mounting hole



0265

0265-0-01-XX-00-00-03-0

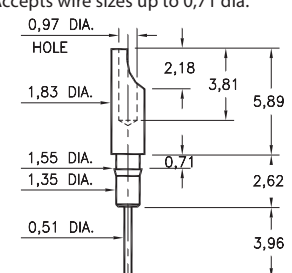
Press-fit in 1,45 mounting hole



0275

0275-0-01-XX-00-00-03-0

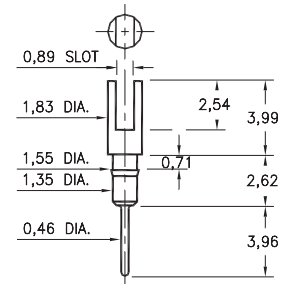
Press-fit in 1,45 mounting hole
Pin material is Phosphor Bronze 544 (B2)
Accepts wire sizes up to 0,71 dia.



0272

0272-0-01-XX-00-00-03-0

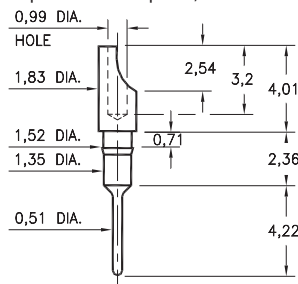
Press-fit in 1,45 mounting hole



8000

8000-0-01-XX-00-00-03-0

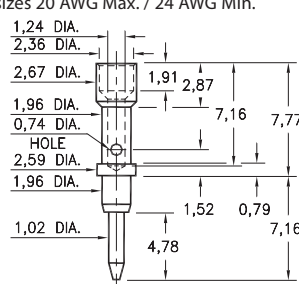
Press-fit in 1,45 mounting hole
Accepts wire sizes up to 0,74 dia.



3603

3603-0-07-XX-00-00-08-0

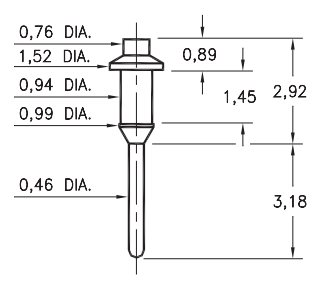
Annealed
Wire crimp termination. Accepts wire
sizes 20 AWG Max. / 24 AWG Min.



9976

9976-0-00-XX-00-00-03-0

Press-fit in 0,97 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08 μ m TIN/LEAD OVER NICKEL
- ◆ 80 5,08 μ m TIN OVER NICKEL (RoHS)
- ◆ 15 0,25 μ m GOLD OVER NICKEL (RoHS)
- ◆ 21 0,51 μ m GOLD OVER NICKEL (RoHS)
- ◆ 34 1,27 μ m GOLD OVER NICKEL (RoHS)



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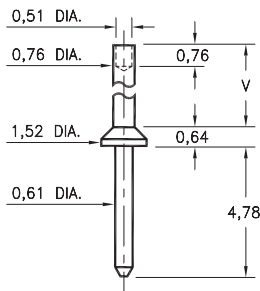
MALE PCB PINS

PRINTED CIRCUIT PINS

3117

3117-X-00-XX-00-00-08-0

Swage mount in 0,89 hole

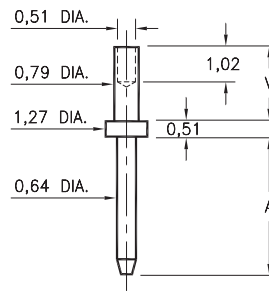


Basic Part Number	Board Thickness	Length V
3117-1	0,79	1,19
3117-2	1,57	1,98
3117-3	2,39	2,79
3117-4	3,18	3,58

3114/3115

311X-X-00-XX-00-00-08-0

Swage mount in 0,89 mounting hole

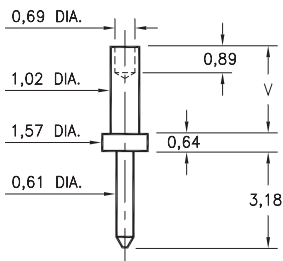


Basic Part Number	Board Thickness	Length A	Length V
3114-1	0,79	3,81	1,30
3114-2	1,57	3,81	2,08
3115-1	0,79	7,62	1,30
3115-2	1,57	7,62	2,08

3112

3112-X-00-XX-00-00-08-0

Swage mount in 1,09 hole

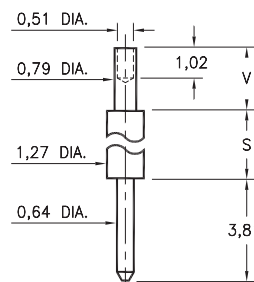


Basic Part Number	Board Thickness	Length V
3112-1	0,79	1,30
3112-2	1,57	2,08
3112-3	2,39	2,87

3118/3119

311X-X-00-XX-00-00-08-0

Swage mount in 0,89 hole

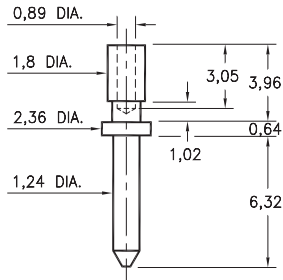


Basic Part Number	Board Thickness	Length S	Length V
3118-1	0,79	4,32	1,30
3118-2	1,57	4,32	2,08
3119-1	0,79	10,67	1,30
3119-2	1,57	10,67	2,08

3139

3139-0-00-XX-00-00-08-0

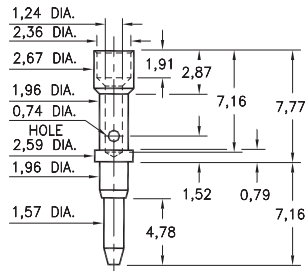
Wire crimp termination. Accepts wire sizes 24 AWG Max. / 28 AWG Min.



3602

3602-0-07-XX-00-00-08-0

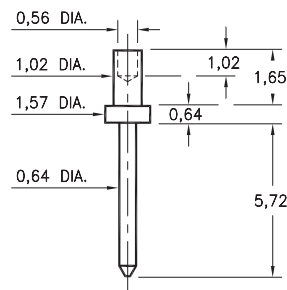
Annealed
Wire crimp termination. Accepts wire sizes 20 AWG Max. / 24 AWG Min.



3131

3131-1-00-XX-00-00-08-0

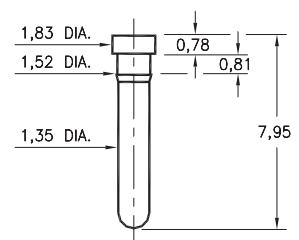
Swage mount in 1,09 hole



0912

0912-0-00-XX-00-00-03-0

Press-fit in 1,45 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except swage pins which are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25μm GOLD OVER NICKEL (RoHS)
- ◆ 21 0,51μm GOLD OVER NICKEL (RoHS)
- ◆ 34 1,27μm GOLD OVER NICKEL (RoHS)



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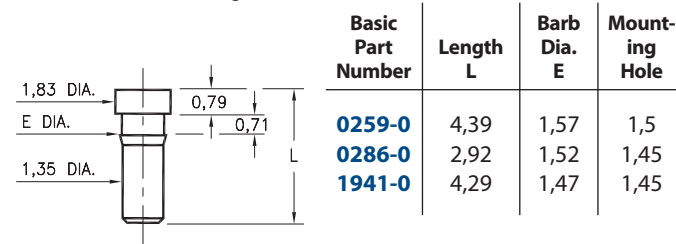
MALE PCB PINS

PRINTED CIRCUIT PINS

0259/0286/1941

XXXX-0-00-XX-00-00-03-0

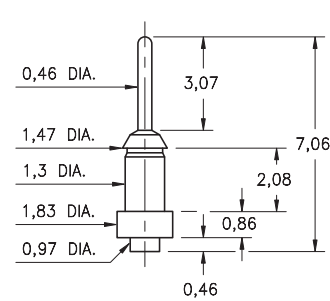
Press-fit in 1,45/1,5 mounting hole



2956-0

2956-0-00-XX-00-00-03-0

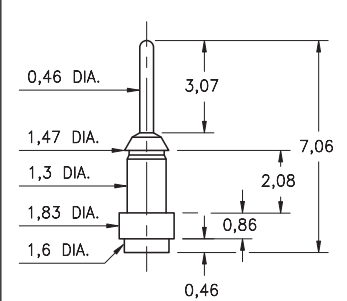
Surface mount



2956-1

2956-1-00-XX-00-00-03-0

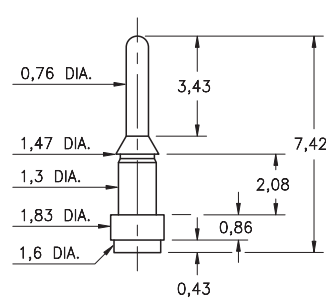
Surface mount



4956-1

4956-1-00-XX-00-00-33-0

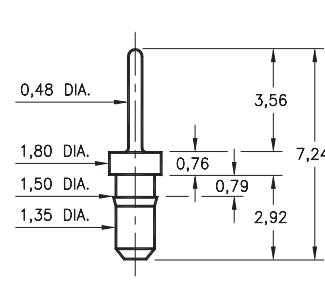
Surface mount



8876

8876-0-00-XX-00-00-03-0

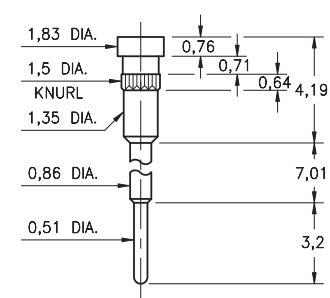
Press-fit in 1,45 mounting hole



1938

1938-0-00-XX-00-00-03-0

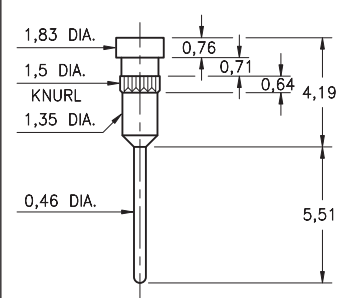
Press-fit in 1,45 mounting hole



1940

1940-0-00-XX-00-00-03-0

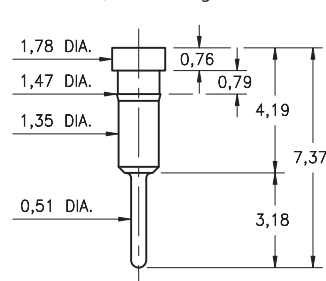
Press-fit in 1,45 mounting hole



1942

1942-0-00-XX-00-00-03-0

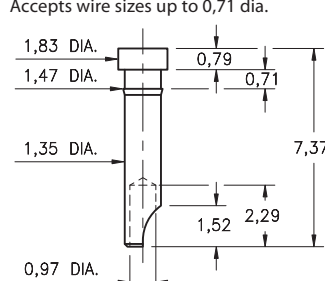
Press-fit in 1,45 mounting hole



3024

3024-0-01-XX-00-00-03-0

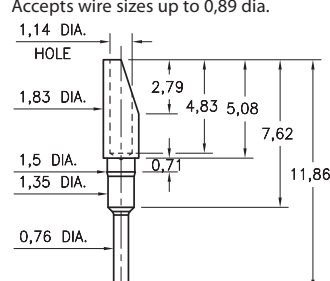
Press-fit in 1,45 mounting hole



1107

1107-0-01-15-00-00-03-0

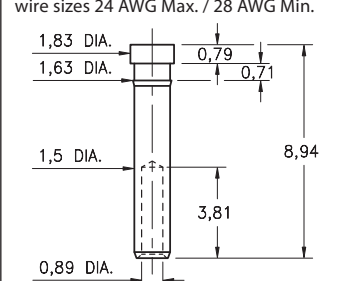
Press-fit in 1,45 mounting hole



3000

3000-0-00-XX-00-00-03-0

Press-fit in 1,55 mounting hole. Accepts wire sizes 24 AWG Max. / 28 AWG Min.



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except swage pins which are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$

RoHS-2
2011/65/EU

ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25μm GOLD OVER NICKEL (RoHS)
- ◆ 21 0,51μm GOLD OVER NICKEL (RoHS)
- ◆ 34 1,27μm GOLD OVER NICKEL (RoHS)



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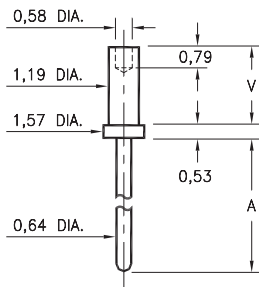
MALE PCB PINS

PRINTED CIRCUIT PINS

3130/3134

31XX-X-00-XX-00-00-08-0

Swage mount in 1,32 hole

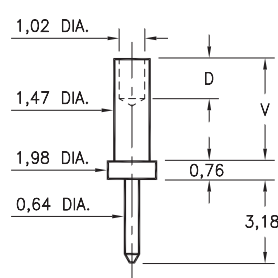


Basic Part Number	Board Thickness	Length A	Length V
3134-1	0,79	2,01	1,30
3134-2	1,57	2,01	2,08
3134-3	2,39	2,01	2,87
3134-4	3,18	2,01	3,68
3130-1	0,79	4,55	1,30
3130-2	1,57	4,55	2,08
3130-3	2,39	4,55	2,87
3130-4	3,18	4,55	3,68

3113

3113-X-00-XX-00-00-08-0

Swage mount in 1,57 hole

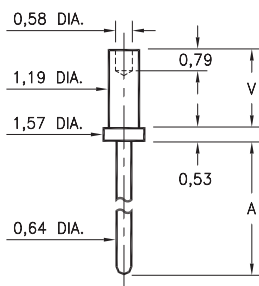


Basic Part Number	Board Thickness	Length V	Depth D
3113-1	0,79	1,57	1,02
3113-2	1,57	2,39	1,57
3113-3	2,39	3,18	1,57
3113-4	3,18	3,96	1,57

3151

3151-X-00-XX-00-00-08-0

Swage mount in 1,32 hole



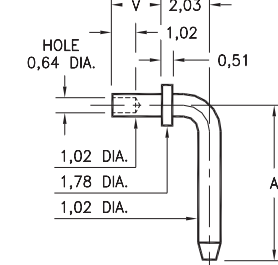
Basic Part Number	Board Thickness	Length A	Length V
3151-1	0,79	12,17	1,30
3151-2	1,57	12,17	2,08
3151-3	2,39	12,17	2,87
3151-4	3,18	12,17	3,68

3301 → 3304

330X-X-14-XX-00-00-08-0

Specify board thickness

Swage mount in 1,09 hole



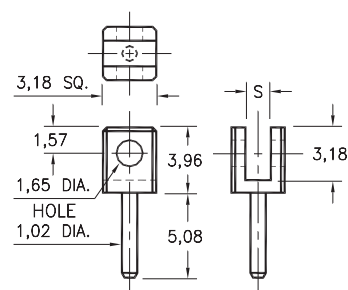
Basic Part Number	Pin Centers A
3301-X	6,53
3302-X	9,07
3303-X	9,53
3304-X	14,27

- X -	Board Thickness	Length V
1	0,79	1,30
2	1,57	2,08
3	2,39	2,87

3620

3620-X-32-XX-00-00-08-0

Board edge rivet mount.

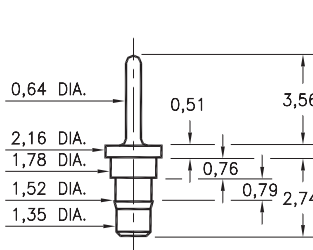


Basic Part Number	Board Thickness	Slot S
3620-1	0,79	1,19
3620-2	1,57	1,91

0940

0940-0-00-XX-00-00-03-0

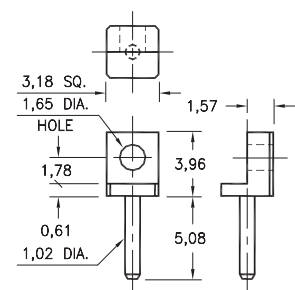
Press-fit in 1,45 mounting hole



3621

3621-0-32-XX-00-00-08-0

Board edge rivet mount



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except swage pins which are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25μm GOLD OVER NICKEL (RoHS)
- ◆ 21 0,51μm GOLD OVER NICKEL (RoHS)
- ◆ 34 1,27μm GOLD OVER NICKEL (RoHS)



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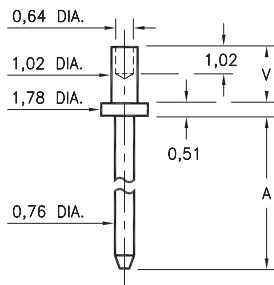
MALE PCB PINS

PRINTED CIRCUIT PINS

3110/3111

311X-X-00-XX-00-00-08-0

Swage mount in 1,09 hole

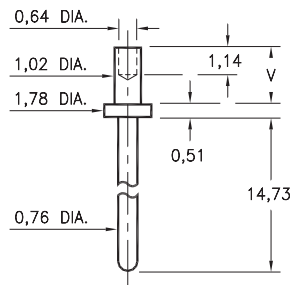


Basic Part Number	Board Thickness	Length A	Length V
3110-1	0,79	3,81	1,30
3110-2	1,57	3,81	2,08
3110-3	2,39	3,81	2,87
3111-1	0,79	7,62	1,30
3111-2	1,57	7,62	2,08
3111-3	2,39	7,62	2,87

3150

3150-X-00-XX-00-00-08-0

Swage mount in 1,09 mounting hole

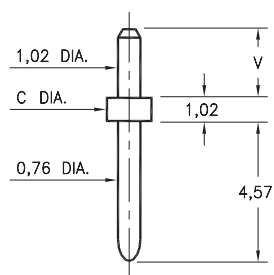


Basic Part Number	Board Thickness	Length V
3150-1	0,79	1,30
3150-2	1,57	2,08

3136/3137

313X-X-00-XX-00-00-08-0

Solder mount in 1,09 mounting hole

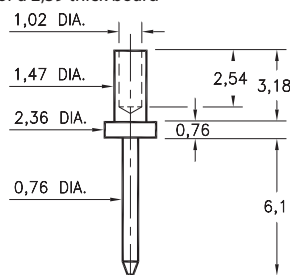


Basic Part Number	Board Thickness	Length V	Flange Dia. C
3136-1	1,57	2,08	
3136-2	2,39	2,79	1,98
3136-3	3,18	3,68	
3137-1	1,57	2,08	
3137-2	2,39	2,79	1,57
3137-3	3,18	3,68	
3137-4	3,96	4,70	

3148

3148-3-00-XX-00-00-08-0

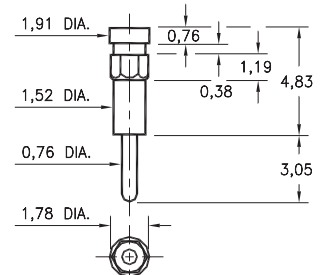
Swage mount in 1,57 hole
For a 2,39 thick board



8815

8815-0-00-XX-00-00-03-0

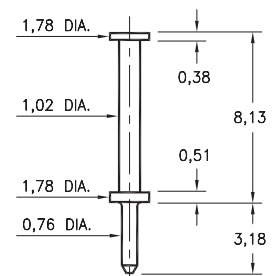
Hex press-fit in 1,68 plated through-hole



6821

6821-0-00-XX-00-00-08-0

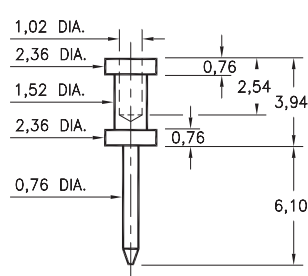
Wire termination



3132

3132-0-00-XX-00-00-08-0

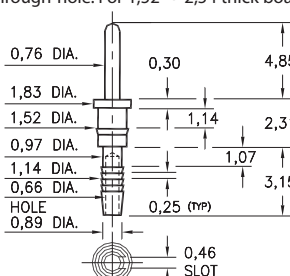
Wire termination, Material is annealed



5601

5601-0-01-XX-00-00-03-0

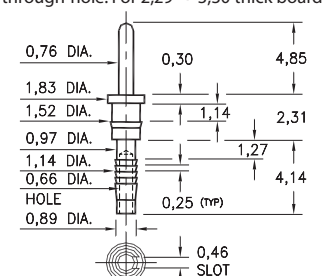
Compliant press-fit in 1,02 ± 0,08 plated through-hole. For 1,52 → 2,54 thick board



5602

5602-0-01-XX-00-00-03-0

Compliant press-fit in 1,02 ± 0,08 plated through-hole. For 2,29 → 3,30 thick board



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except swage pins which are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: ± 0,13
Diameters: ± 0,051
Angles: ± 2°



ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08µm TIN/LEAD OVER NICKEL
- ◆ 80 5,08µm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25µm GOLD OVER NICKEL (RoHS)
- ◆ 21 0,51µm GOLD OVER NICKEL (RoHS)
- ◆ 34 1,27µm GOLD OVER NICKEL (RoHS)



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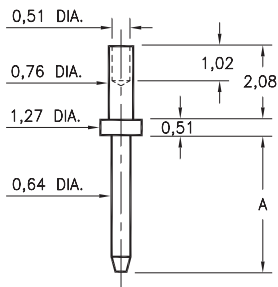
MALE PCB PINS

PRINTED CIRCUIT PINS

3120

3120-X-00-XX-00-00-08-0

Swage mount in 0,86 hole

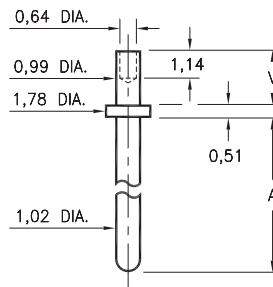


Basic Part Number	Pin Length A
3120-1	5,21
3120-2	6,35

3122⇨3153

31XX-X-00-XX-00-00-08-0

Swage mount in 1,09 hole



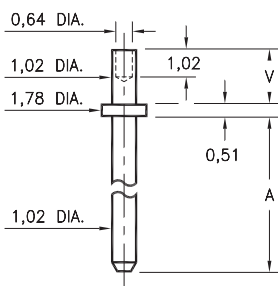
Basic Part Number	Pin Length A
3153-X	4,57
3141-X	5,84
3122-X	7,11
3149-X	9,65
3123-X	14,73
3140-X	19,81
3124-X	22,35

- X -	Board Thickness	Length V
1	0,79	1,3
2	1,57	2,08

3101⇨3106

310X-X-00-XX-00-00-08-0

Swage mount in 1,09 hole



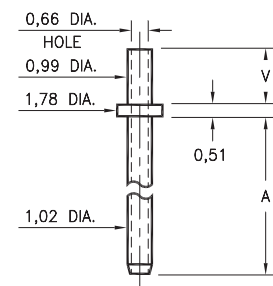
Basic Part Number	Pin Length A
3101-X	3,81
3102-X	4,78
3103-X	7,62
3104-X	12,7
3105-X	19,05
3106-X	25,40

- X -	Board Thickness	Length V
1	0,79	1,30
2	1,57	2,08
3	2,39	2,87

3221⇨3223

322X-0-00-XX-00-00-08-0

Swage mount in 1,09 hole



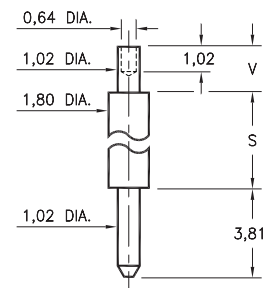
Basic Part Number	Pin Length A
3221-X	2,54
3222-X	3,81
3223-X	7,62

- X -	Board Thickness	Length V
1	0,79	1,30
2	1,57	2,08
3	2,39	2,87

3125/3126

312X-X-00-XX-00-00-08-0

Swage mount in 1,09 hole



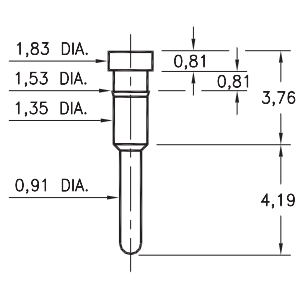
Basic Part Number	Pin Length S
3125-X	4,32
3126-X	10,67

- X -	Board Thickness	Length V
1	0,79	1,30
2	1,57	2,08
3	2,39	2,87

0995

0995-0-00-XX-00-00-03-0

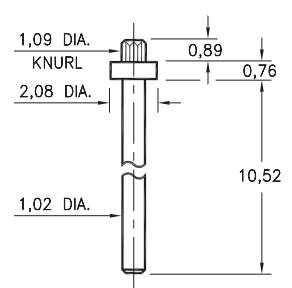
Press-fit in 1,45 mounting hole



4526

4526-0-00-XX-00-00-03-0

Press-fit in 1,02 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except swage pins which are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25μm GOLD OVER NICKEL (RoHS)
- ◆ 21 0,51μm GOLD OVER NICKEL (RoHS)
- ◆ 34 1,27μm GOLD OVER NICKEL (RoHS)



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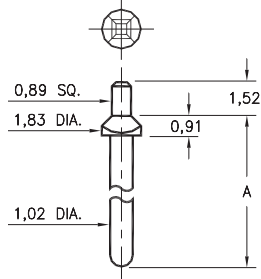
MALE PCB PINS

PRINTED CIRCUIT PINS

8600/8954/8955

8XXX-X-05-XX-00-00-03-0

Square press-fit in 1,09 plated through-hole

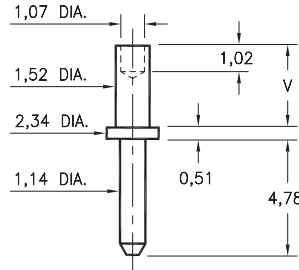


Basic Part Number	Pin Length A
8600-0	10,16
8600-1	21,59
8600-2	30,48
8954-0	3,45
8955-0	16,64

3159

3159-X-00-XX-00-00-08-0

Swage mount in 1,63 hole

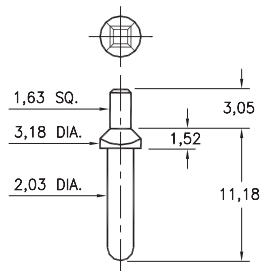


Basic Part Number	Board Thickness	Length V
3159-1	0,79	1,57
3159-2	1,57	2,39
3159-3	2,39	3,18
3159-4	3,18	3,96

8952

8952-0-05-XX-00-00-03-0

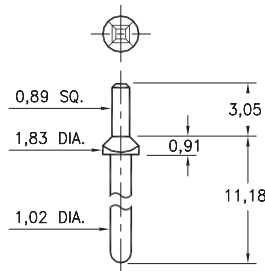
Square press-fit in 2,21 plated through-hole



8953

8953-0-05-XX-00-00-03-0

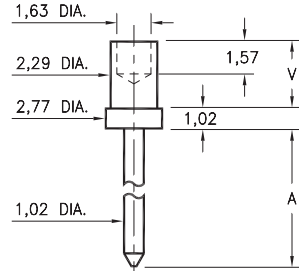
Square press-fit in 1,19 plated through-hole



3230

3230-X-00-XX-00-00-08-0

Swage mount in 2,39 hole



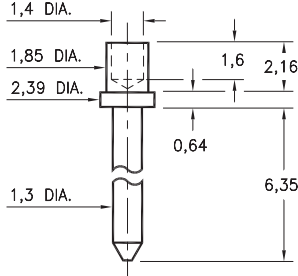
Basic Part Number	Board Thickness	Length A	Length V
3230-1	0,79	5,13	1,65
3230-2	1,57	5,79	2,41
3230-3	2,39	6,55	3,18
3230-4	3,18	7,32	3,94

3146

3146-2-00-XX-00-00-08-0

Swage mount in 1,93 hole

For a 1,57 thick board

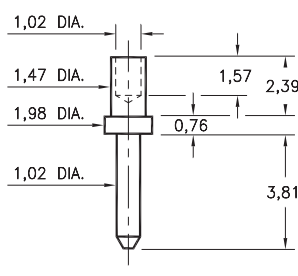


3142

3142-2-00-XX-00-00-08-0

Swage mount in 1,57 hole

For a 1,57 thick board

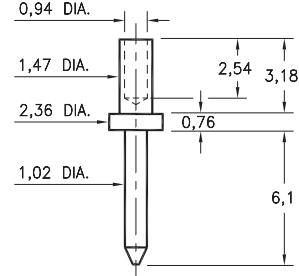


3232

3232-3-00-XX-00-00-08-0

Swage mount in 1,57 hole

For a 2,39 thick board

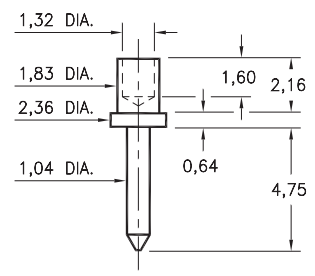


3145

3145-2-00-XX-00-00-08-0

Swage mount in 1,93 hole

For a 1,57 thick board



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except swage pins which are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25μm GOLD OVER NICKEL (RoHS)
- ◆ 21 0,51μm GOLD OVER NICKEL (RoHS)
- ◆ 34 1,27μm GOLD OVER NICKEL (RoHS)



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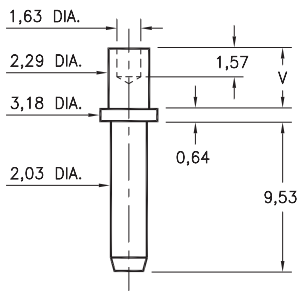
MALE PCB PINS

PRINTED CIRCUIT PINS

3231

3231-X-00-XX-00-00-08-0

Swage mount in 2,39 hole

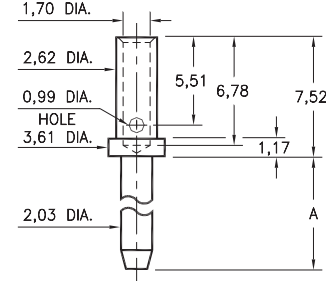


Basic Part Number	Board Thickness	Length V
3231-2	1,57	2,39
3231-3	2,39	3,18
3231-4	3,18	3,96

3609

3609-X-07-XX-00-00-08-0

Wire crimp termination. Accepts wire sizes 16 AWG Max. / 20 AWG Min.

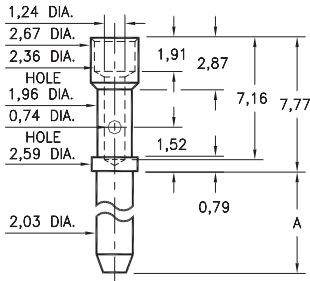


Basic Part Number	Pin Length A
3609-1	5,08
3609-2	9,53
3609-3	12,7

3601

3601-X-07-XX-00-00-08-0

Wire crimp termination. Accepts wire sizes 20 AWG Max. / 24 AWG Min.

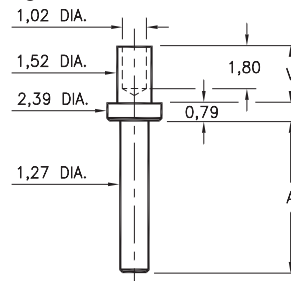


Basic Part Number	Pin Length A
3601-1	5,08
3601-2	9,53
3601-3	12,7

3133/3138/3152

31XX-X-00-XX-00-00-08-0

Specify board thickness
Swage mount in 1,63 hole



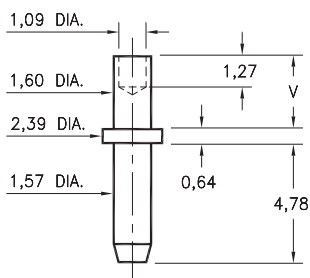
Basic Part Number	Pin Length A
3152-X	2,39
3133-X	5,56
3138-X	7,16

- X -	Board Thickness	Length V
1	0,79	1,60
2	1,57	2,39
3	2,39	3,18
4	3,18	3,96

3144

3144-X-00-XX-00-00-08-0

Swage mount in 1,70 hole

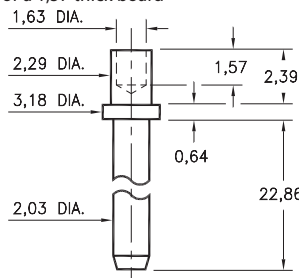


Basic Part Number	Board Thickness	Length V
3144-1	0,79	1,35
3144-2	1,57	2,13
3144-3	2,39	2,92

3233

3233-2-00-XX-00-00-08-0

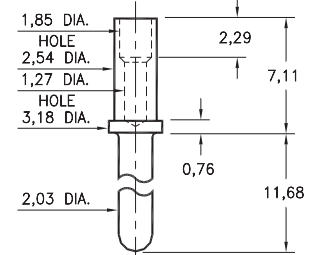
Swage mount in 2,39 hole
For a 1,57 thick board



0520

0520-0-00-XX-00-00-03-0

Annealed
Wire crimp termination. Accepts wire sizes 20 AWG Max. / 24 AWG Min.



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except swage pins which are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08µm TIN/LEAD OVER NICKEL
- ◆ 80 5,08µm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25µm GOLD OVER NICKEL (RoHS)
- ◆ 21 0,51µm GOLD OVER NICKEL (RoHS)
- ◆ 34 1,27µm GOLD OVER NICKEL (RoHS)



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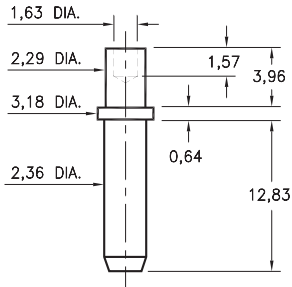
MALE PCB PINS

PRINTED CIRCUIT PINS

5231

5231-0-00-XX-00-00-38-0

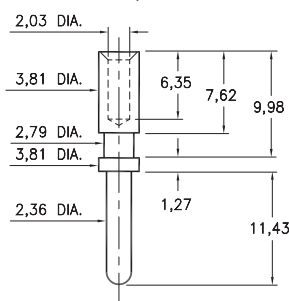
Swage mount in 2,39 hole
For a 3,18 thick board



9092

9092-0-00-XX-00-00-38-0

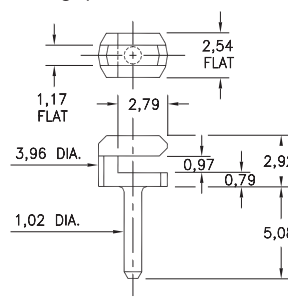
Wire termination up to 14 AWG



7310

7310-0-01-XX-00-00-08-0

Board edge press-fit

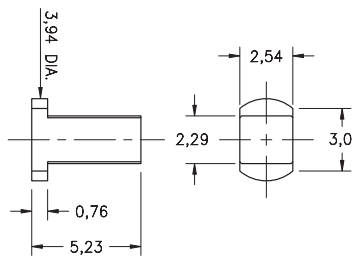


7937

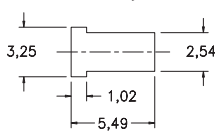
7937-0-00-15-00-00-03-0

Target contact, horizontal surface mount
Also available on 16mm wide carrier tape:
2,400 parts per 330mm reel.

Order as: 7937-0-58-15-00-00-03-0



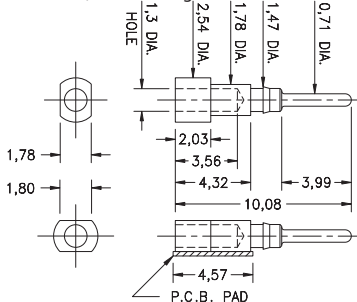
P.C.B. Layout



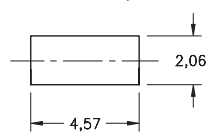
1502

1502-0-00-XX-00-00-33-0

Press-fit in 1,45 mounting hole



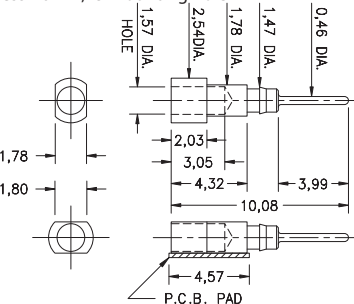
P.C.B. Layout



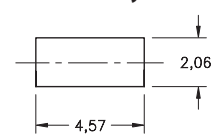
5102

5102-0-00-XX-00-00-33-0

Press-fit in 1,45 mounting hole



P.C.B. Layout

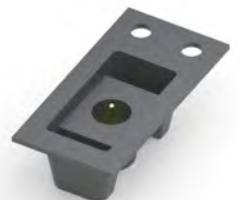
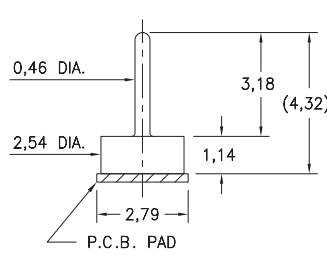


1508

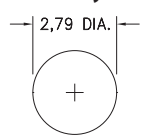
1508-0-00-15-00-00-03-0

Test point, surface mount
Also available on 16mm wide carrier tape:
1,600 parts per 330mm reel.

Order as: 1508-0-57-15-00-00-03-0



P.C.B. Layout



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except swage pins which are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25μm GOLD OVER NICKEL (RoHS)
- ◆ 21 0,51μm GOLD OVER NICKEL (RoHS)
- ◆ 34 1,27μm GOLD OVER NICKEL (RoHS)



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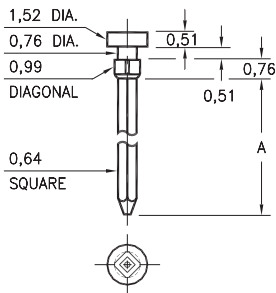
MALE PCB PINS

WRAPOST TERMINALS

5275

5275-X-05-XX-00-00-01-0

Square press-fit in 0,89 plated through-hole

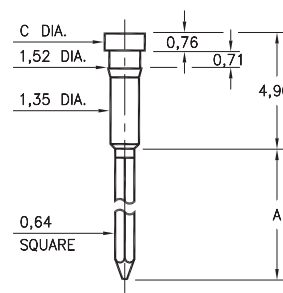


Basic Part Number	# of Wraps	Length A
5275-1	1	9,40
5275-2	2	11,94
5275-3	3	15,49

1010⇒1012/1020⇒1022

10XX-X-05-XX-00-00-01-0

Press-fit in 1,45 mounting hole

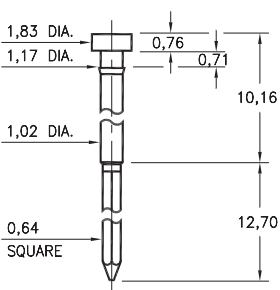


Basic Part Number	# of Wraps	Wrapost Length A	Head Dia. C
1012-1	1	6,60	1,83
1011-2	2	9,14	
1010-3	3	12,7	
1022-1	1	6,60	1,57
1021-2	2	9,14	
1020-3	3	12,7	

1215

1215-3-05-XX-00-00-01-0

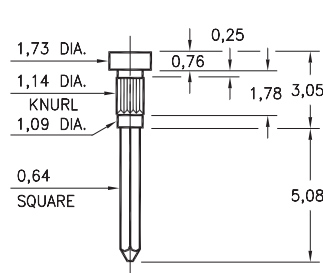
Press-fit in 1,09 mounting hole



1124

1124-0-05-XX-00-00-01-0

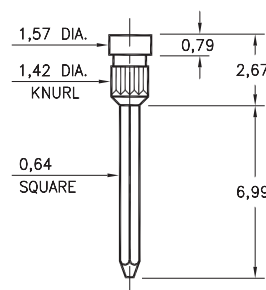
Press-fit in 1,09 mounting hole



1210

1210-0-05-XX-00-00-01-0

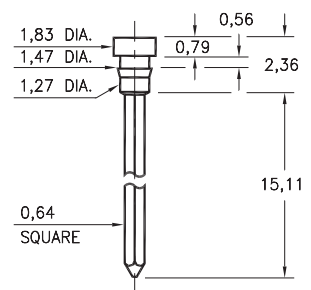
Press-fit in 1,35 mounting hole



1222

1222-0-05-XX-00-00-01-0

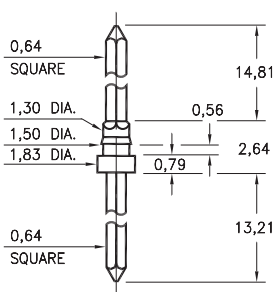
Press-fit in 1,40 mounting hole



1221

1221-0-05-XX-00-00-01-0

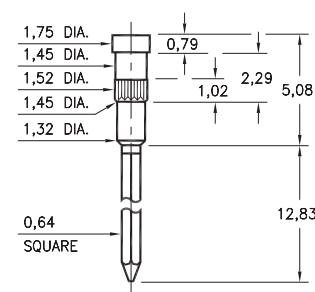
Press-fit in 1,42 mounting hole



1110

1110-3-05-XX-00-00-01-0

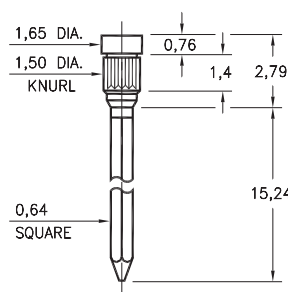
Press-fit in 1,45 mounting hole



1094

1094-0-05-XX-00-00-01-0

Press-fit in 1,42 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: **XXXX - X - 05 - XX - 00 - 00 - 01 - 0**

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25μm GOLD OVER NICKEL (RoHS)
- ◆ 21 0,51μm GOLD OVER NICKEL (RoHS)



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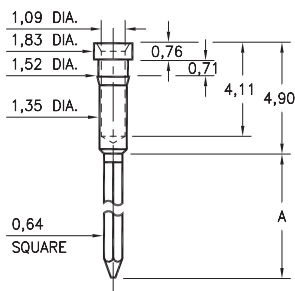
MALE PCB PINS

WRAPOST TERMINALS

1030⇒1032

103X-X-05-XX-00-00-01-0

Press-fit in 1,45 mounting hole

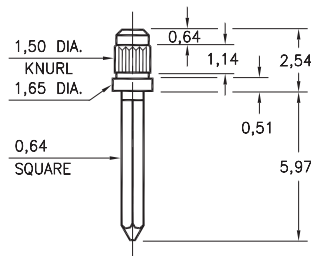


Basic Part Number	# of Wraps	Length A
1032-1	1	6,60
1031-2	2	9,14
1030-3	3	12,7

1216

1216-0-05-XX-00-00-01-0

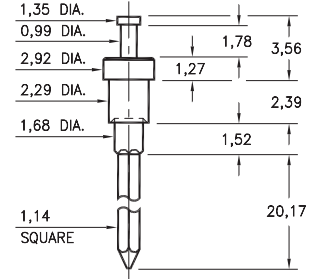
Press-fit in 1,42 mounting hole



1095

1095-0-05-XX-00-00-01-0

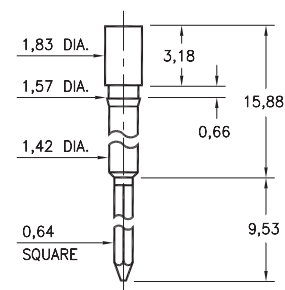
Swage mount in 2,39 hole
For a 1,57 thick board



1214

1214-0-05-XX-00-00-01-0

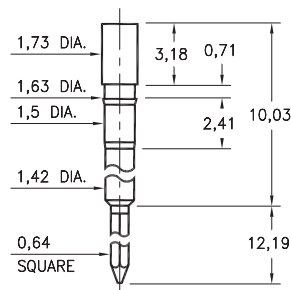
Press-fit in 1,50 mounting hole



1212

1212-0-05-XX-00-00-01-0

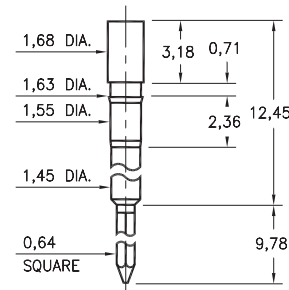
Press-fit in 1,55 mounting hole



1213

1213-0-05-XX-00-00-01-0

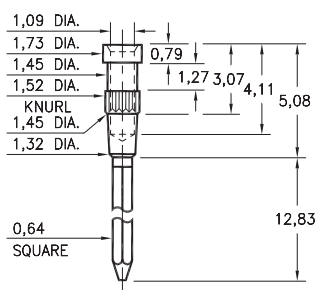
Press-fit in 1,55 mounting hole



0318

0318-3-05-XX-00-00-01-0

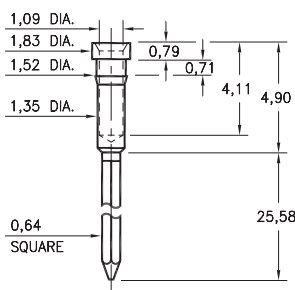
Press-fit in 1,45 mounting hole



1302

1302-0-05-XX-00-00-01-0

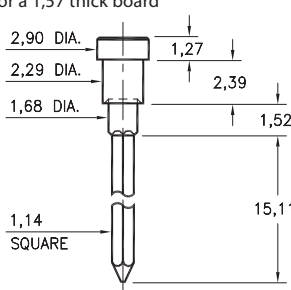
Press-fit in 1,45 mounting hole



1097

1097-0-05-XX-00-00-01-0

Swage mount in 2,39 hole
For a 1,57 thick board



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except swage pins which are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 05 - XX - 00 - 00 - 01 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 15 0,25μm GOLD OVER NICKEL (RoHS)
- ◆ 21 0,51μm GOLD OVER NICKEL (RoHS)



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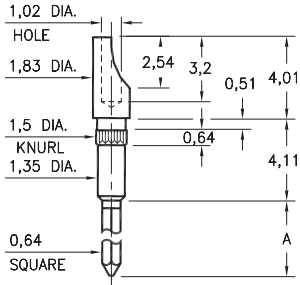
MALE PCB PINS

WRAPOST TERMINALS

8301

8301-X-24-XX-00-00-01-0

Press-fit in 1,45 mounting hole
Accepts wire sizes up to 0,76 dia.

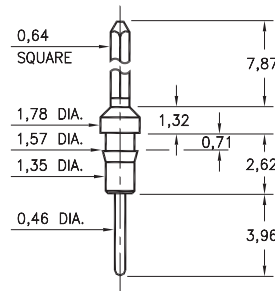


Basic Part Number	# of Wraps	Length A
8301-2	2	9,40
8301-3	3	12,95

1083

1083-0-05-XX-00-00-01-0

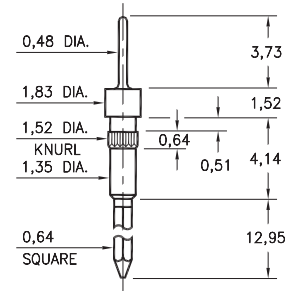
Press-fit in 1,50 mounting hole



5301

5301-0-05-XX-00-00-01-0

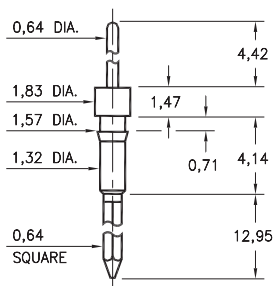
Press-fit in 1,45 mounting hole



1090

1090-0-05-XX-00-00-01-0

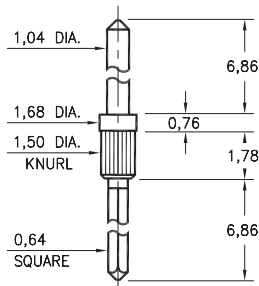
Press-fit in 1,50 mounting hole



8608

8608-0-05-XX-00-00-01-0

Press-fit in 1,42 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$

RoHS-2
2011/65/EU

ORDER CODE: XXXX - X - XX - XX - 00 - 00 - 01 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01** 5,08 μ m TIN/LEAD OVER NICKEL
- ◆ **80** 5,08 μ m TIN OVER NICKEL (RoHS)
- ◆ **15** 0,25 μ m GOLD OVER NICKEL (RoHS)
- ◆ **21** 0,51 μ m GOLD OVER NICKEL (RoHS)



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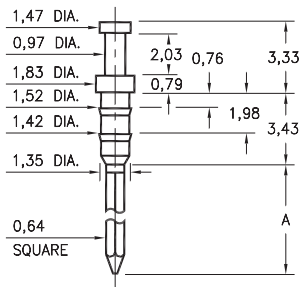
MALE PCB PINS

WRAPOST TERMINALS

1096

1096-X-05-XX-00-00-01-0

Press-fit in 1,45 mounting hole

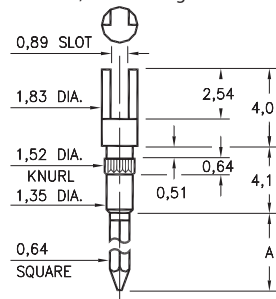


Basic Part Number	# of Wraps	Length A
1096-2	2	9,68
1096-3	3	13,39

1106

1106-X-23-XX-00-00-01-0

Press-fit in 1,45 mounting hole

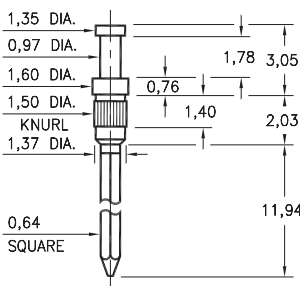


Basic Part Number	# of Wraps	Length A
1106-2	2	9,40
1106-3	3	12,95

1093

1093-0-05-XX-00-00-01-0

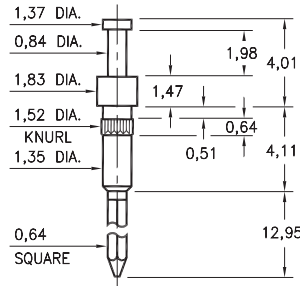
Press-fit in 1,42 mounting hole



0730

0730-3-05-XX-00-00-01-0

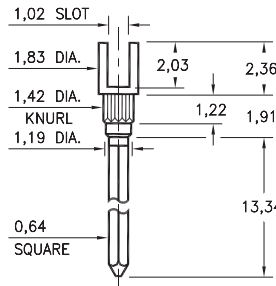
Press-fit in 1,45 mounting hole



1122

1122-0-22-XX-00-00-01-0

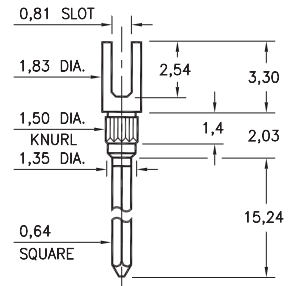
Press-fit in 1,35 mounting hole



1064

1064-0-23-XX-00-00-01-0

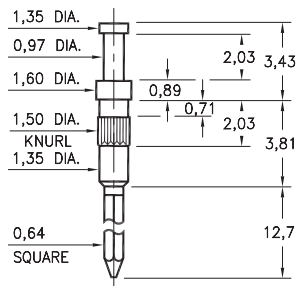
Press-fit in 1,42 mounting hole



1092

1092-0-05-XX-00-00-01-0

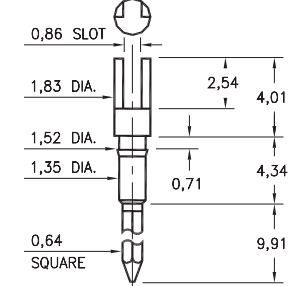
Press-fit in 1,42 mounting hole



1068

1068-0-23-XX-00-00-01-0

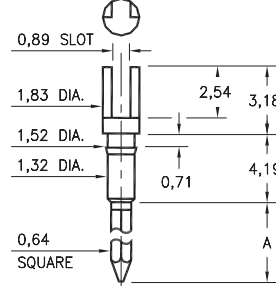
Press-fit in 1,45 mounting hole



1070→1072

107X-X-23-XX-00-00-01-0

Press-fit in 1,45 mounting hole



Basic Part Number	# of Wraps	Length A
1072-1	1	6,60
1071-2	2	9,40
1070-3	3	12,95

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Except where noted)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - XX - XX - 00 - 00 - 01 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01** 5,08μm TIN/LEAD OVER NICKEL
- 80** 5,08μm TIN OVER NICKEL (RoHS)
- 15** 0,25μm GOLD OVER NICKEL (RoHS)
- 21** 0,51μm GOLD OVER NICKEL (RoHS)



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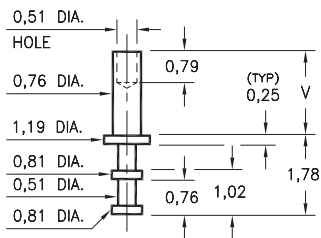
MALE PCB PINS

SOLDER TERMINAL TURRETS

2111

2111-X-00-XX-00-00-07-0

Swage mount in 0,84 hole

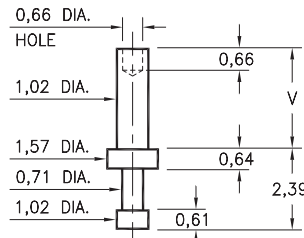


Basic Part Number	Board Thickness	Length V
2111-1	0,79	1,35
2111-2	1,57	2,13
2111-3	2,39	2,92

2113

2113-X-00-XX-00-00-07-0

Swage mount in 1,09 hole

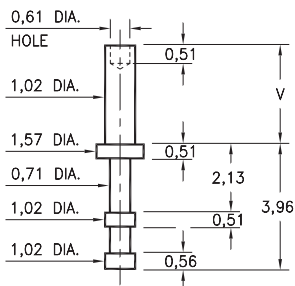


Basic Part Number	Board Thickness	Length V
2113-1	0,79	1,35
2113-2	1,57	2,13
2113-3	2,39	2,92
2113-4	3,18	3,73

2108

2108-X-00-XX-00-00-07-0

Swage mount in 1,09 hole

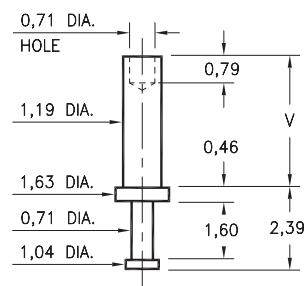


Basic Part Number	Board Thickness	Length V
2108-1	0,79	1,35
2108-2	1,57	2,13
2108-3	2,39	2,92
2108-4	3,18	3,73

2102

2102-X-00-XX-00-00-07-0

Swage mount in 1,32 hole

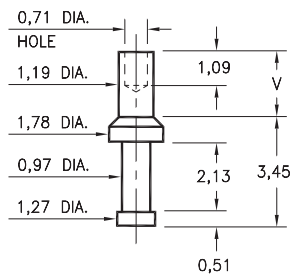


Basic Part Number	Board Thickness	Length V
2102-5	0,41	0,89
2102-1	0,79	1,37
2102-2	1,57	2,13
2102-3	2,39	2,92
2102-4	3,18	3,73

2109

2109-X-00-XX-00-00-07-0

Swage mount in 1,32 hole

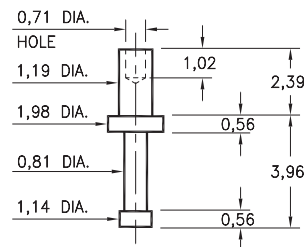


Basic Part Number	Board Thickness	Length V
2109-1	0,79	1,32
2109-2	1,57	2,16

2324

2324-2-00-XX-00-00-07-0

Swage mount in 1,32 hole
For a 1,57 thick board



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 44 7,62μm SILVER OVER COPPER (RoHS)
- 50 7,62μm ELECTRO-SOLDER
(60/40 SnPb)



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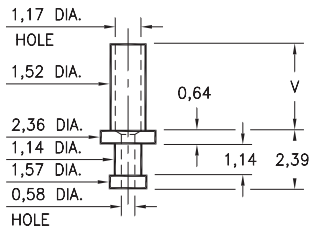
MALE PCB PINS

SOLDER TERMINAL TURRETS

2312

2312-X-00-XX-00-00-07-0

Swage mount in 1,63 hole

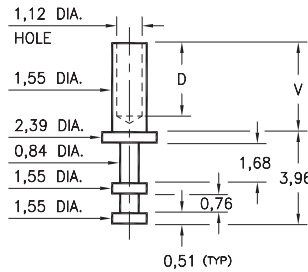


Basic Part Number	Board Thickness	Length V
2312-1	0,79	1,35
2312-2	1,57	2,39
2312-3	2,39	2,92
2312-4	3,18	3,73

2308

2308-X-00-XX-00-00-07-0

Swage mount in 1,63 hole

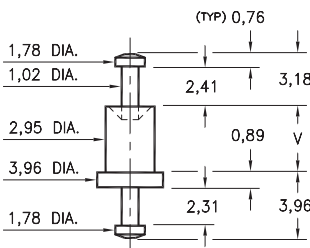


Basic Part Number	Board Thickness	Length V	Depth D
2308-1	0,79	1,37	0,91
2308-2	1,57	2,13	1,68
2308-3	2,39	2,92	2,44
2308-4	3,18	3,73	3,20

2707

2707-X-00-XX-00-00-07-0

Swage mount in 3,05 hole

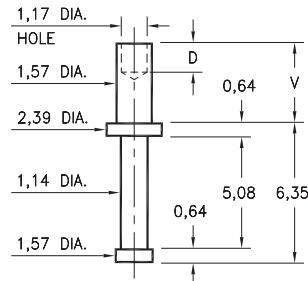


Basic Part Number	Board Thickness	Length V
2707-1	0,79	1,57
2707-2	1,57	2,39
2707-3	2,39	3,18
2707-4	3,18	3,96

2329

2329-X-00-XX-00-00-07-0

Swage mount in 1,70 hole

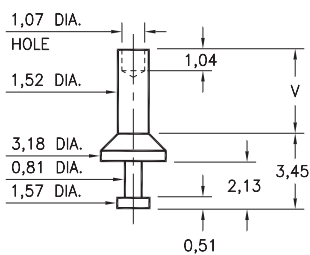


Basic Part Number	Board Thickness	Length V	Depth D
2329-1	0,79	1,14	1,14
2329-2	1,57	2,39	1,57
2329-3	2,39	3,18	1,57
2329-4	3,18	3,96	1,57

2510

2510-X-00-XX-00-00-07-0

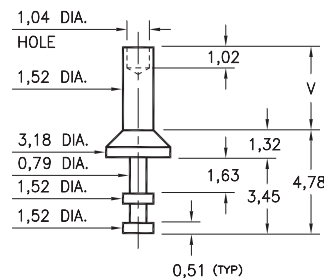
Swage mount in 1,63 hole



2513

2513-X-00-XX-00-00-07-0

Swage mount in 1,63 hole



Basic Part Number	Board Thickness	Length V
251X-1	0,79	1,57
251X-2	1,57	2,39
251X-3	2,39	3,18
251X-4	3,18	3,96

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08µm TIN/LEAD OVER NICKEL
- ◆ 80 5,08µm TIN OVER NICKEL (RoHS)
- ◆ 44 7,62µm SILVER OVER COPPER (RoHS)
- 50 7,62µm ELECTRO-SOLDER
(60/40 SnPb)



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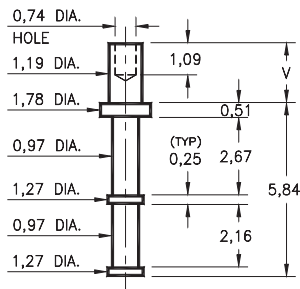
MALE PCB PINS

SOLDER TERMINAL TURRETS

2110

2110-X-00-XX-00-00-07-0

Swage mount in 1,32 hole

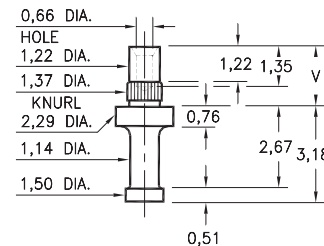


Basic Part Number	Board Thickness	Length V
2110-1	0,79	1,24
2110-2	1,57	2,08

2333

2333-X-00-XX-00-00-07-0

Press-fit & swage in 1,32 mounting hole

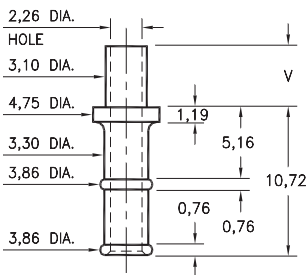


Basic Part Number	Board Thickness	Length V
2333-1	1,98	2,62
2333-2	1,57	2,21
2333-3	1,19	1,83

2821

2821-X-00-XX-00-00-07-0

Swage mount in 3,18 hole

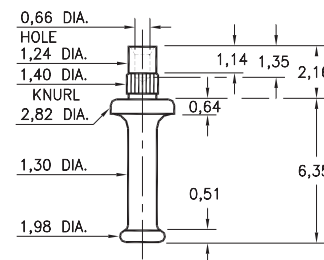


Basic Part Number	Board Thickness	Length V
2821-2	1,57	2,77
2821-3	2,39	3,58
2821-4	3,18	4,37

2533

2533-0-00-XX-00-00-07-0

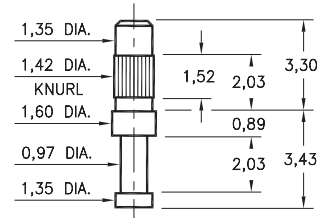
Press-fit & swage in 1,32 mounting hole
For a 1,57 thick board



2101

2101-3-00-XX-00-00-07-0

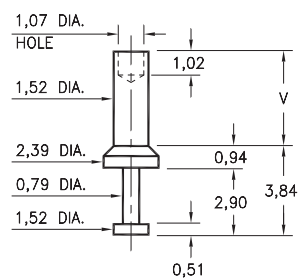
Press-fit in 1,35 mounting hole
For a 1,57 to 2,39 thick board



2316

2316-X-00-XX-00-00-07-0

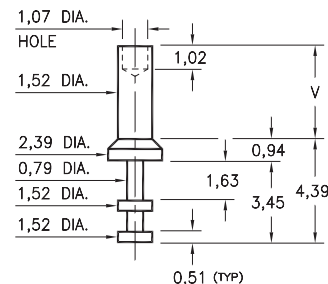
Swage mount in 1,63 hole



2317

2317-X-00-XX-00-00-07-0

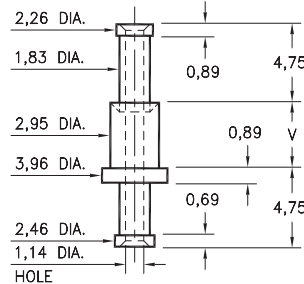
Swage mount in 1,63 hole



2708

2708-X-00-XX-00-00-07-0

Swage mount in 3,05 hole



Basic Part Number	Board Thickness	Length V
2XXX-1	0,79	1,57
2XXX-2	1,57	2,39
2XXX-3	2,39	3,18
2XXX-4	3,18	3,96

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: **XXXX - X - 00 - XX - 00 - 00 - 07 - 0**

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 44 7,62μm SILVER OVER COPPER (RoHS)
- 50 7,62μm ELECTRO-SOLDER (60/40 SnPb)



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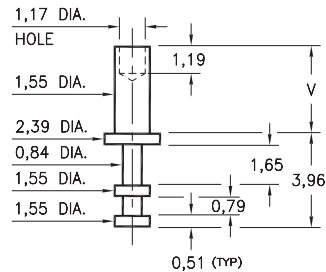
MALE PCB PINS

SOLDER TERMINAL TURRETS

2348

2348-X-00-XX-00-00-07-0

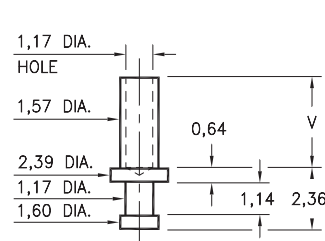
Swage mount in 1,63 hole



2301

2301-X-00-XX-00-00-07-0

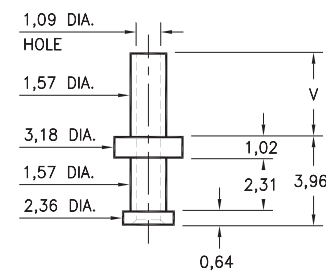
Swage mount in 1,70 hole



2506

2506-X-00-XX-00-00-07-0

Swage mount in 1,70 hole

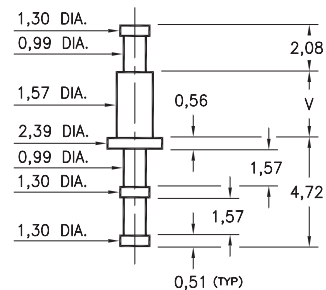


Basic Part Number	Board Thickness	Length V
2XXX-1	0,79	1,35
2XXX-2	1,57	2,13
2XXX-3	2,39	2,92
2XXX-4	3,18	3,73

2310

2310-X-00-XX-00-00-07-0

Swage mount in 1,70 hole

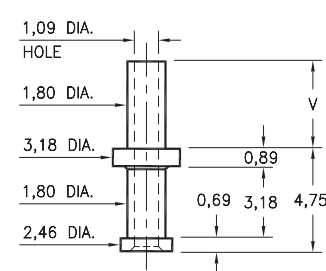


Basic Part Number	Board Thickness	Length V
2310-1	0,79	1,35
2310-2	1,57	2,08
2310-3	2,39	2,87
2310-4	3,18	3,68

2505

2505-X-00-XX-00-00-07-0

Swage mount in 1,93 hole

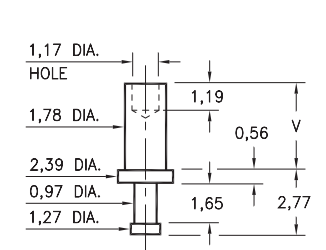


Basic Part Number	Board Thickness	Length V
2505-1	0,79	1,57
2505-2	1,57	2,36
2505-3	2,39	3,18
2505-4	3,18	3,96

2325

2325-X-00-XX-00-00-07-0

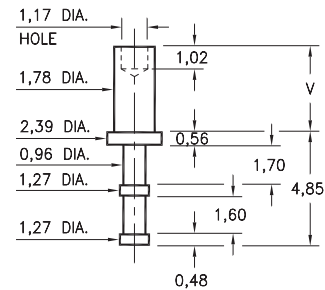
Swage mount in 1,85 hole



2355

2355-X-00-XX-00-00-07-0

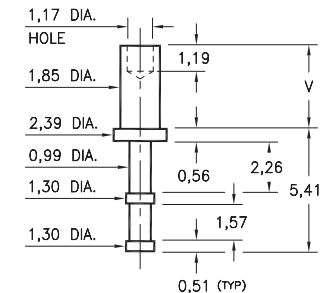
Swage mount in 1,85 hole



2365

2365-X-00-XX-00-00-07-0

Swage mount in 1,93 hole



Basic Part Number	Board Thickness	Length V
23X5-1	0,79	1,35
23X5-2	1,57	2,13
23X5-3	2,39	2,92
23X5-4	3,18	3,73

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 44 7,62μm SILVER OVER COPPER (RoHS)
- 50 7,62μm ELECTRO-SOLDER
(60/40 SnPb)



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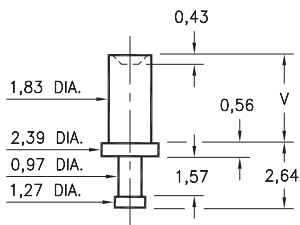
MALE PCB PINS

SOLDER TERMINAL TURRETS

2304

2304-X-00-XX-00-00-07-0

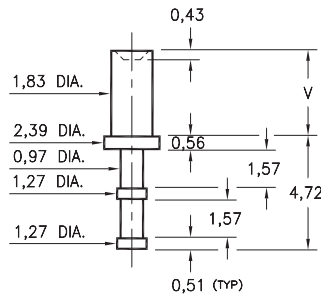
Swage mount in 1,93 hole



2305

2305-X-00-XX-00-00-07-0

Swage mount in 1,93 hole

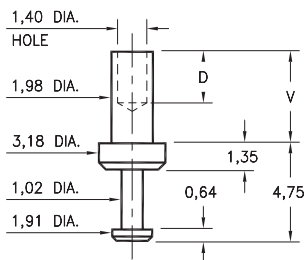


Basic Part Number	Board Thickness	Length V
230X-1	0,79	1,30
230X-2	1,57	2,08
230X-3	2,39	2,87
230X-4	3,18	3,68

2503

2503-X-00-XX-00-00-07-0

Swage mount in 2,08 hole

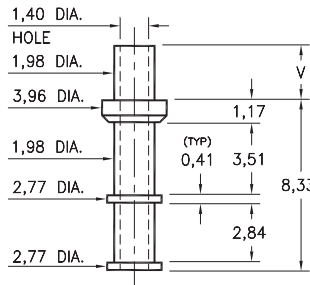


Basic Part Number	Board Thickness	Length V	Depth D
2503-1	0,79	1,98	1,72
2503-2	1,57	2,77	2,49
2503-3	2,39	3,58	2,49
2503-4	3,18	4,39	2,49

2704

2704-X-00-XX-00-00-07-0

Swage mount in 2,08 hole

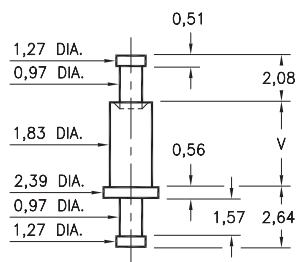


Basic Part Number	Board Thickness	Length V
2704-1	0,79	1,91
2704-2	1,57	2,67
2704-3	2,39	3,43
2704-4	3,18	4,19

2306

2306-X-00-XX-00-00-07-0

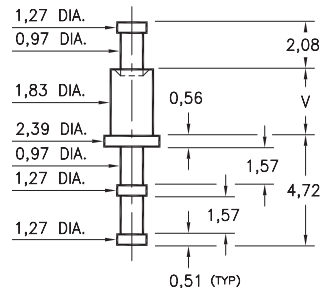
Swage mount in 1,93 hole



2307

2307-X-00-XX-00-00-07-0

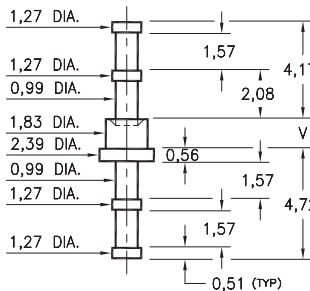
Swage mount in 1,93 hole



2311

2311-X-00-XX-00-00-07-0

Swage mount in 1,93 hole



Basic Part Number	Board Thickness	Length V
23XX-1	0,79	1,30
23XX-2	1,57	2,08
23XX-3	2,39	2,87
23XX-4	3,18	3,68

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 44 7,62μm SILVER OVER COPPER (RoHS)
- 50 7,62μm ELECTRO-SOLDER (60/40 SnPb)



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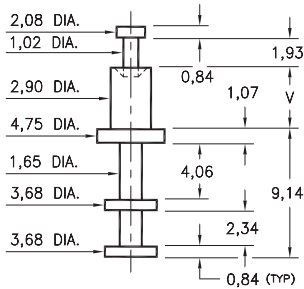
MALE PCB PINS

SOLDER TERMINAL TURRETS

2810

2810-X-00-XX-00-00-07-0

Swage mount in 3,0 hole

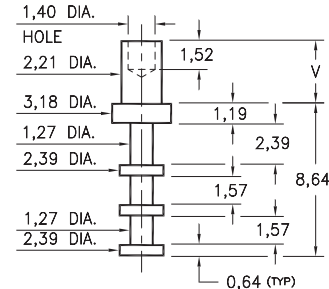


Basic Part Number	Board Thickness	Length V
2810-2	1,57	2,67
2810-3	2,39	3,43
2810-4	3,18	4,19

2524

2524-X-00-XX-00-00-07-0

Swage mount in 2,34 hole

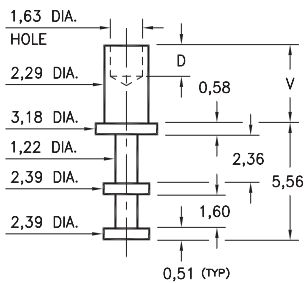


Basic Part Number	Board Thickness	Length V
2524-1	0,79	1,91
2524-2	1,57	2,67
2524-3	2,39	3,43
2524-4	3,18	4,19

2561

2561-X-00-XX-00-00-07-0

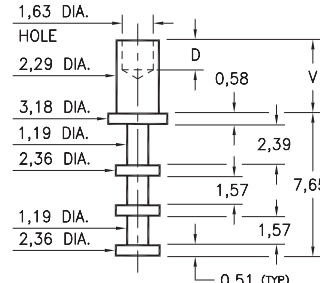
Swage mount in 2,39 hole



2508

2508-X-00-XX-00-00-07-0

Swage mount in 2,39 hole

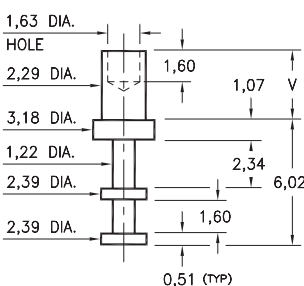


Basic Part Number	Board Thickness	Length V	Depth D
25XX-1	0,79	1,60	1,19
25XX-2	1,57	2,39	1,57
25XX-3	2,39	3,18	1,57
25XX-4	3,18	3,96	1,57

2551

2551-X-00-XX-00-00-07-0

Swage mount in 2,39 hole

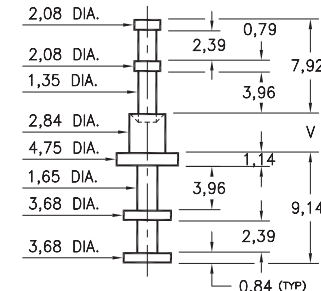


Basic Part Number	Board Thickness	Length V
2551-1	0,79	1,91
2551-2	1,57	2,67
2551-3	2,39	3,43
2551-4	3,18	4,19

2812

2812-X-00-XX-00-00-07-0

Swage mount in 2,95 hole



Basic Part Number	Board Thickness	Length V
2812-1	1,57	2,67
2812-2	2,39	3,43
2812-3	3,18	4,19
2812-4	4,78	5,84

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 44 7,62μm SILVER OVER COPPER (RoHS)
- 50 7,62μm ELECTRO-SOLDER
(60/40 SnPb)



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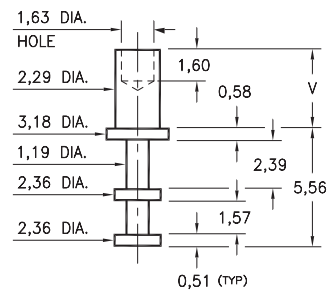
MALE PCB PINS

SOLDER TERMINAL TURRETS

2501

2501-X-00-XX-00-00-07-0

Swage mount in 2,39 hole

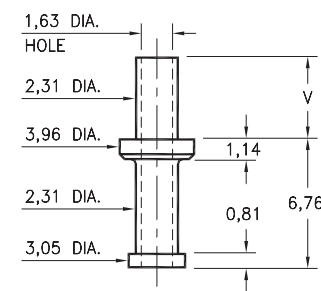


Basic Part Number	Board Thickness	Length V
2501-1	0,79	1,98
2501-2	1,57	2,77
2501-3	2,39	3,56
2501-4	3,18	4,34

2703

2703-X-00-XX-00-00-07-0

Swage mount in 2,39 hole

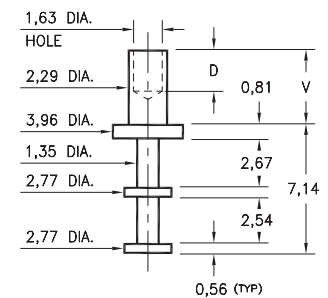


Basic Part Number	Board Thickness	Length V
2703-1	0,79	1,96
2703-2	1,57	2,72
2703-3	2,39	3,48
2703-4	3,18	4,24

2702

2702-X-00-XX-00-00-07-0

Swage mount in 2,39 hole

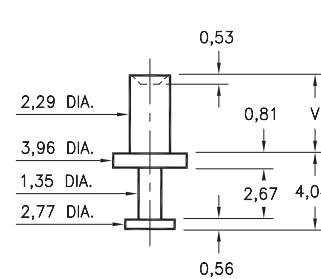


Basic Part Number	Board Thickness	Length V	Depth D
2702-1	0,79	1,91	1,60
2702-2	1,57	2,67	2,36
2702-3	2,39	3,43	2,36
2702-4	3,18	4,19	2,36

2710

2710-X-00-XX-00-00-07-0

Swage mount in 2,39 hole

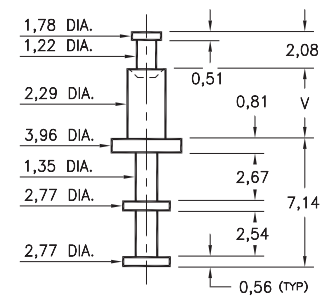


Basic Part Number	Board Thickness	Length V
2710-1	0,79	1,57
2710-2	1,57	2,39
2710-3	2,39	3,18
2710-4	3,18	3,96

2717

2717-X-00-XX-00-00-07-0

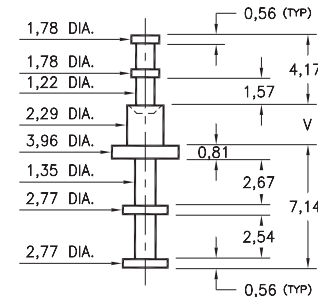
Swage mount in 2,39 hole



2713

2713-X-00-XX-00-00-07-0

Swage mount in 2,39 hole



Basic Part Number	Board Thickness	Length V
271X-1	0,79	1,57
271X-2	1,57	2,39
271X-3	2,39	3,18
271X-4	3,18	3,96

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 44 7,62μm SILVER OVER COPPER (RoHS)
- 50 7,62μm ELECTRO-SOLDER (60/40 SnPb)



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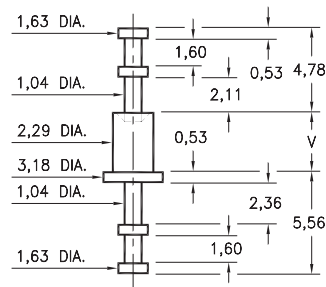
MALE PCB PINS

SOLDER TERMINAL TURRETS

2512

2512-X-00-XX-00-00-07-0

Swage mount in 2,39 hole

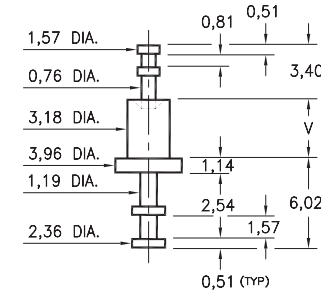


Basic Part Number	Board Thickness	Length V
2512-1	0,79	1,57
2512-2	1,57	2,39
2512-3	2,39	3,18
2512-4	3,18	3,96

2705

2705-X-00-XX-00-00-07-0

Swage mount in 3,28 hole

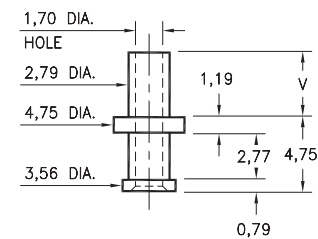


Basic Part Number	Board Thickness	Length V
2705-1	0,79	1,91
2705-2	1,57	2,67
2705-3	2,39	3,43
2705-4	3,18	4,19

2803

2803-X-00-XX-00-00-07-0

Swage mount in 2,87 hole

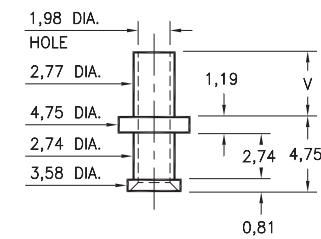


Basic Part Number	Board Thickness	Length V
2803-1	0,79	1,98
2803-2	1,57	2,77
2803-3	2,39	3,56
2803-4	3,18	4,34

2815

2815-X-00-XX-00-00-07-0

Swage mount in 2,87 hole

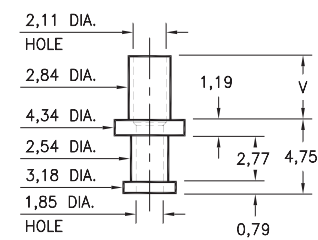


Basic Part Number	Board Thickness	Length V
2815-1	0,79	1,91
2815-2	1,57	2,67
2815-3	2,39	3,43
2815-4	3,18	4,19

2816

2816-X-00-XX-00-00-07-0

Swage mount in 2,95 hole

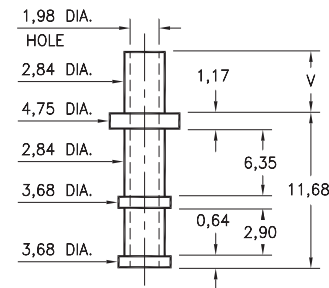


Basic Part Number	Board Thickness	Length V
2816-1	0,79	1,98
2816-2	1,57	2,77
2816-3	2,39	3,58
2816-4	3,18	4,37

2817

2817-X-00-XX-00-00-07-0

Swage mount in 2,95 hole



Basic Part Number	Board Thickness	Length V
2817-1	0,79	1,91
2817-2	1,57	2,67
2817-3	2,39	3,43
2817-4	3,18	4,19

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 44 7,62μm SILVER OVER COPPER (RoHS)
- 50 7,62μm ELECTRO-SOLDER
(60/40 SnPb)



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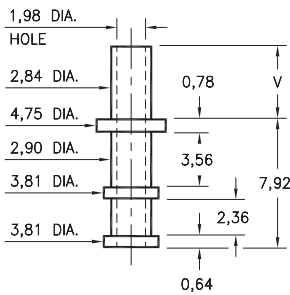
MALE PCB PINS

SOLDER TERMINAL TURRETS

2802

2802-X-00-XX-00-00-07-0

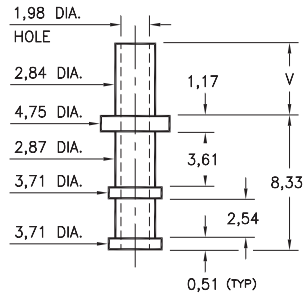
Swage mount in 3,0 hole



2804

2804-X-00-XX-00-00-07-0

Swage mount in 3,0 hole

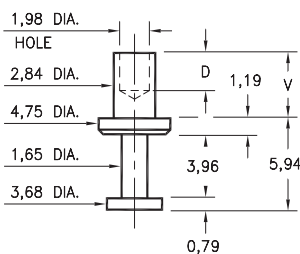


Basic Part Number	Board Thickness	Length V
280X-1	0,79	1,98
280X-2	1,57	2,77
280X-3	2,39	3,56
280X-4	3,18	4,34

2805

2805-X-00-XX-00-00-07-0

Swage mount in 2,95 hole

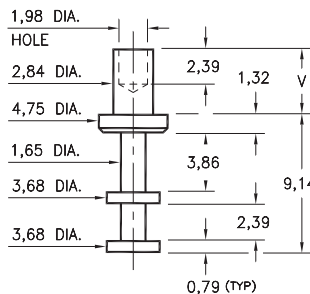


Basic Part Number	Board Thickness	Length V	Depth D
2805-1	0,79	1,88	1,73
2805-2	1,57	2,67	2,49
2805-3	2,39	3,43	2,49
2805-4	3,18	4,19	2,49

2801

2801-X-00-XX-00-00-07-0

Swage mount in 2,95 hole

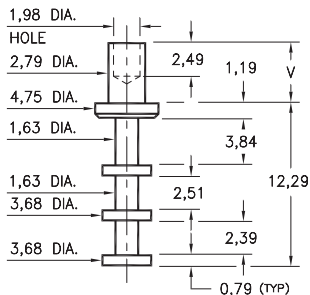


Basic Part Number	Board Thickness	Length V
2801-1	0,79	1,98
2801-2	1,57	2,77
2801-3	2,39	3,58
2801-4	3,18	4,37
2801-5	4,76	5,94

2806

2806-X-00-XX-00-00-07-0

Swage mount in 2,95 hole

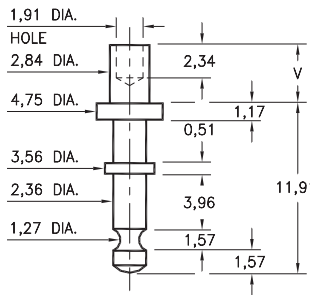


Basic Part Number	Board Thickness	Length V
2806-1	0,79	1,98
2806-2	1,57	2,77
2806-3	2,39	3,58
2806-4	3,18	4,37

2811

2811-X-00-XX-00-00-07-0

Swage mount in 2,95 hole



Basic Part Number	Board Thickness	Length V
2811-1	0,79	1,91
2811-2	1,57	2,67
2811-3	2,39	3,43
2811-4	3,18	4,19

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 44 7,62μm SILVER OVER COPPER (RoHS)
- 50 7,62μm ELECTRO-SOLDER (60/40 SnPb)



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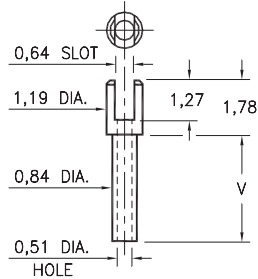
MALE PCB PINS

SOLDER TERMINALS SLOTTED

2104

2104-X-01-XX-00-00-07-0

Swage mount in 0,91 hole

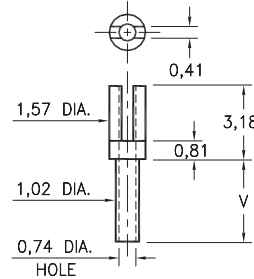


Basic Part Number	Board Thickness	Length V
2104-1	0,79	1,40
2104-2	1,57	2,18
2104-3	2,39	2,97
2104-4	3,18	3,76

2112

2112-X-01-XX-00-00-07-0

Swage mount in 1,09 hole

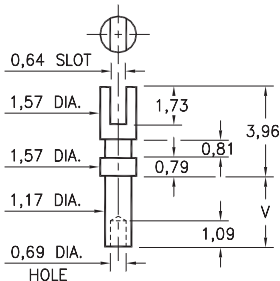


Basic Part Number	Board Thickness	Length V
2112-5	0,41	0,94
2112-1	0,79	1,35
2112-2	1,57	2,13
2112-3	2,39	2,92
2112-4	3,18	3,73

2105

2105-X-01-XX-00-00-07-0

Swage mount in 1,32 hole

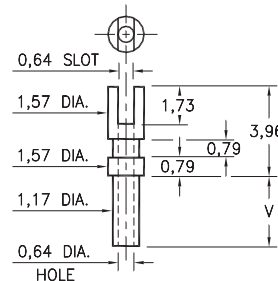


Basic Part Number	Board Thickness	Length V
2105-1	0,79	1,40
2105-2	1,57	2,18
2105-3	2,39	2,97
2105-4	3,18	3,78

2103

2103-X-01-XX-00-00-07-0

Swage mount in 1,32 hole

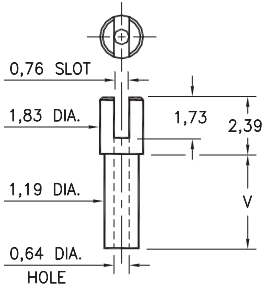


Basic Part Number	Board Thickness	Length V
2103-1	0,79	1,4
2103-2	1,57	2,18
2103-3	2,39	2,97
2103-4	3,18	3,78

2106

2106-X-01-XX-00-00-07-0

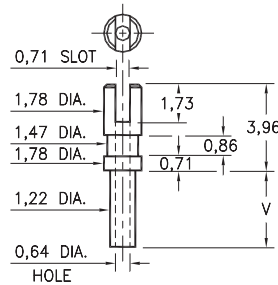
Swage mount in 1,32 hole



2107

2107-X-01-XX-00-00-07-0

Swage mount in 1,32 hole



Basic Part Number	Board Thickness	Length V
210X-1	0,79	1,30
210X-2	1,57	2,08
210X-3	2,39	2,87
210X-4	3,18	3,68

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 01 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 44 7,62μm SILVER OVER COPPER (RoHS)
- 50 7,62μm ELECTRO-SOLDER
(60/40 SnPb)



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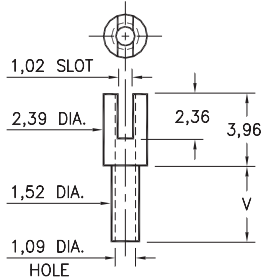
MALE PCB PINS

SOLDER TERMINALS SLOTTED

2303

2303-X-01-XX-00-00-07-0

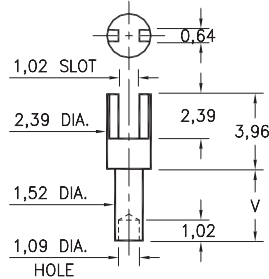
Swage mount in 1,63 hole



2323

2323-X-01-XX-00-00-07-0

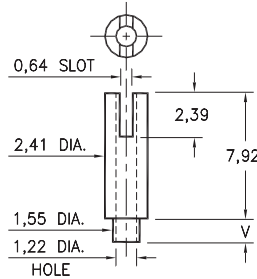
Swage mount in 1,63 hole



2322

2322-X-01-XX-00-00-07-0

Swage mount in 1,63 hole

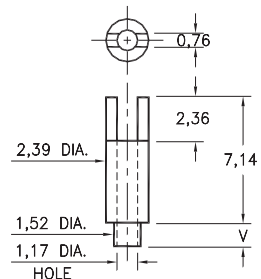


Basic Part Number	Board Thickness	Length V
23XX-1	0,79	1,35
23XX-2	1,57	2,13
23XX-3	2,39	2,92
23XX-4	3,18	3,73

2320

2320-X-01-XX-00-00-07-0

Swage mount in 1,63 hole

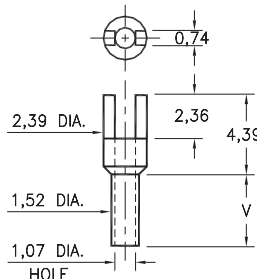


Basic Part Number	Board Thickness	Length V
2320-1	0,79	1,35
2320-2	1,57	2,13
2320-3	2,39	2,92

2328

2328-X-01-XX-00-00-07-0

Swage mount in 1,63 hole

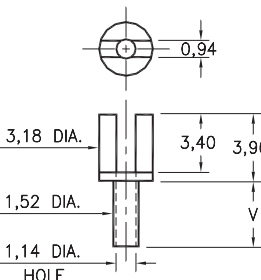


Basic Part Number	Board Thickness	Length V
2328-1	0,79	1,57
2328-2	1,57	2,39
2328-3	2,39	3,18
2328-4	3,18	3,96

2520

2520-X-01-XX-00-00-07-0

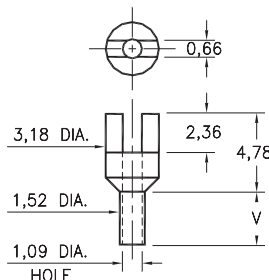
Swage mount in 1,63 hole



2517

2517-X-01-XX-00-00-07-0

Swage mount in 1,63 hole



Basic Part Number	Board Thickness	Length V
25XX-1	0,79	1,57
25XX-2	1,57	2,39
25XX-3	2,39	3,18
25XX-4	3,18	3,96

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 01 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 44 7,62μm SILVER OVER COPPER (RoHS)
- 50 7,62μm ELECTRO-SOLDER (60/40 SnPb)

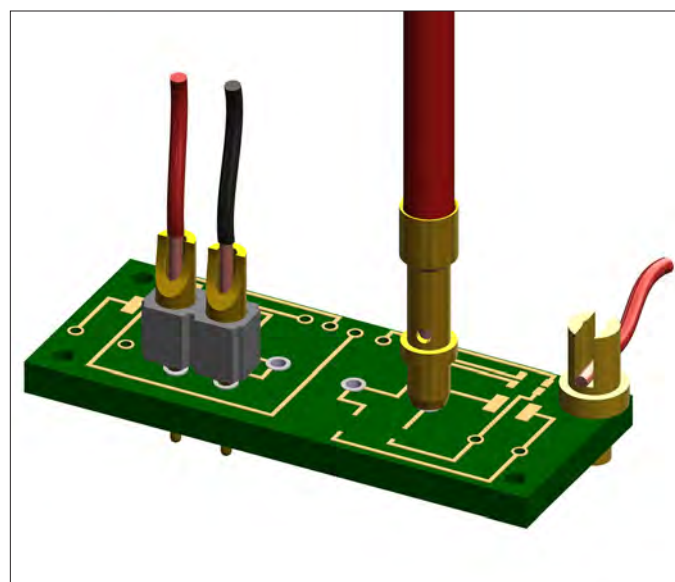
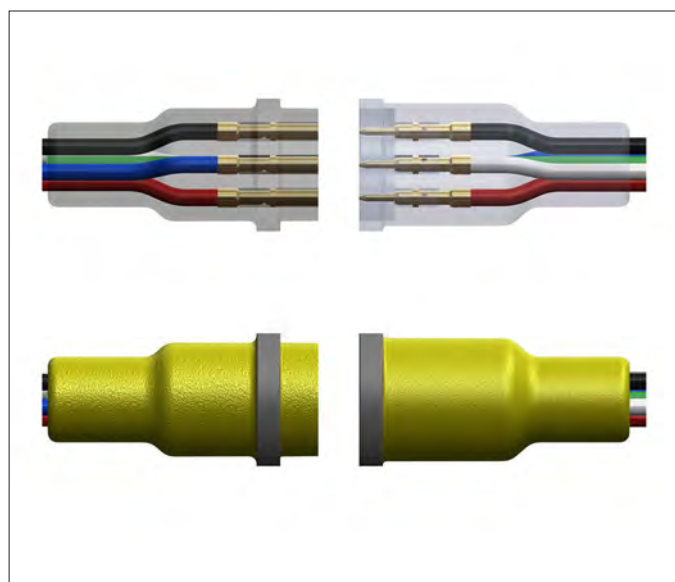
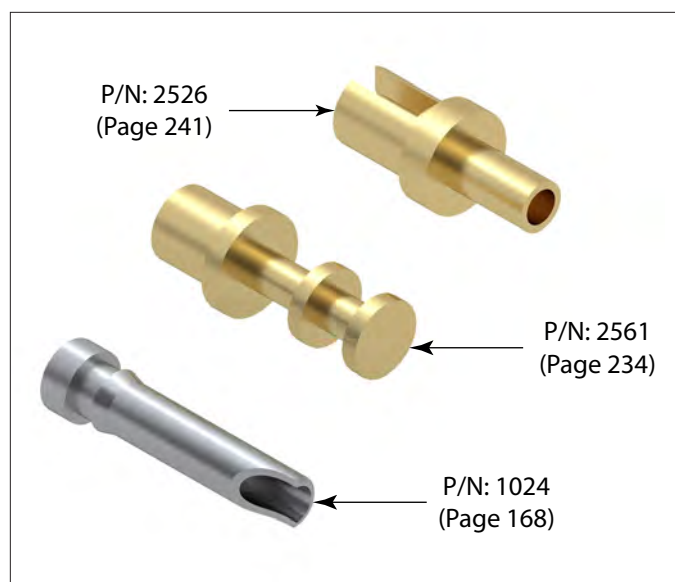
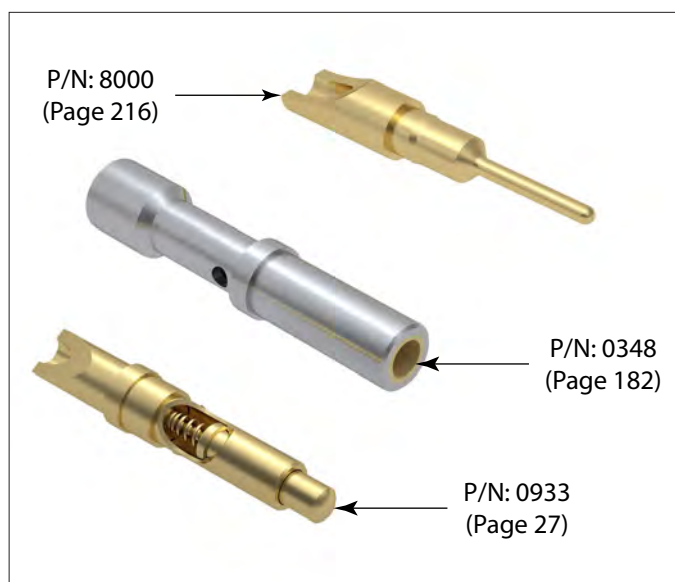


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WIRE TERMINATION

LOOSE PINS, RECEPTACLES AND SPRING PINS

Mill-Max manufactures many different types of pins and receptacles for terminating wires. There are solder cup and crimp barrel styles for terminating discrete wires to boards, making up cable assemblies or converting device wires to pluggable pins. We have slotted and turret styles for connecting power and ground wires or for test and jumper applications. Wrapost termination styles are also available for prototyping and test. Along with our wide selection of standard products, custom designs are available by contacting Mill-Max Technical Services.



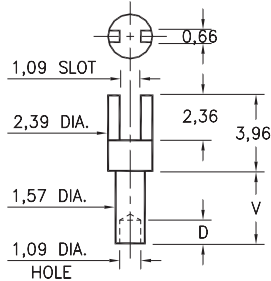
MALE PCB PINS

SOLDER TERMINALS SLOTTED

2315

2315-X-01-XX-00-00-07-0

Swage mount in 1,70 hole

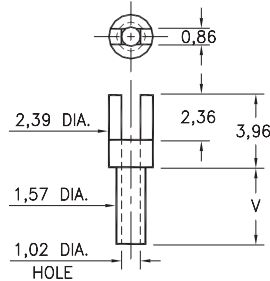


Basic Part Number	Board Thickness	Length V	Depth D
2315-1	0,79	1,14	1,02
2315-2	1,57	2,39	1,57
2315-3	2,39	3,18	1,57
2315-4	3,18	3,96	1,57

2302

2302-X-01-XX-00-00-07-0

Swage mount in 1,70 hole

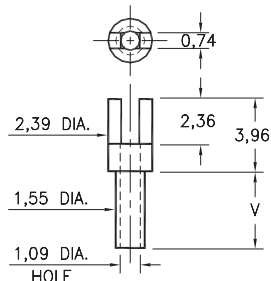


Basic Part Number	Board Thickness	Length V
2302-1	0,79	1,35
2302-2	1,57	2,13
2302-3	2,39	2,92
2302-4	3,18	3,73

2352

2352-X-01-XX-00-00-07-0

Swage mount in 1,70 hole

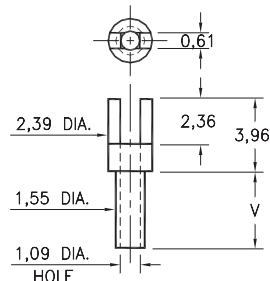


Basic Part Number	Board Thickness	Length V
2352-1	0,79	1,14
2352-2	1,57	2,39
2352-3	2,39	3,18
2352-4	3,18	3,96

2362

2362-X-01-XX-00-00-07-0

Swage mount in 1,70 hole

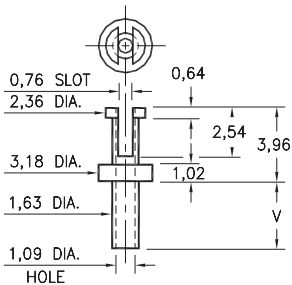


Basic Part Number	Board Thickness	Length V
2362-5	0,41	0,94
2362-1	0,79	1,35
2362-2	1,57	2,13
2362-3	2,39	2,92
2362-4	3,18	3,73

2507

2507-X-01-XX-00-00-07-0

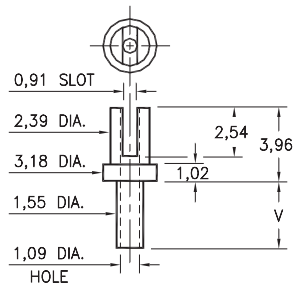
Swage mount in 1,70 hole



2526

2526-X-01-XX-00-00-07-0

Swage mount in 1,63 hole



Basic Part Number	Board Thickness	Length V
25XX-1	0,79	1,35
25XX-2	1,57	2,13
25XX-3	2,39	2,92
25XX-4	3,18	3,73

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 01 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 44 7,62μm SILVER OVER COPPER (RoHS)
- 50 7,62μm ELECTRO-SOLDER
(60/40 SnPb)



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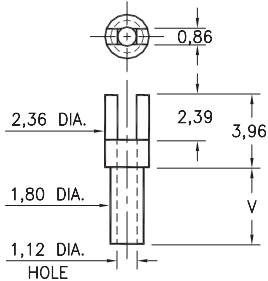
MALE PCB PINS

SOLDER TERMINALS SLOTTED

2314

2314-X-01-XX-00-00-07-0

Swage mount in 1,93 hole

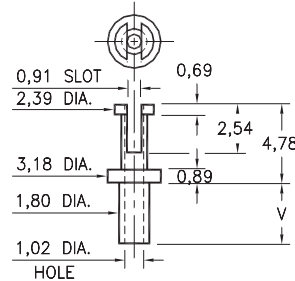


Basic Part Number	Board Thickness	Length V
2314-1	0,79	1,14
2314-2	1,57	2,39
2314-3	2,39	3,18
2314-4	3,18	3,96

2511

2511-X-01-XX-00-00-07-0

Swage mount in 1,93 hole

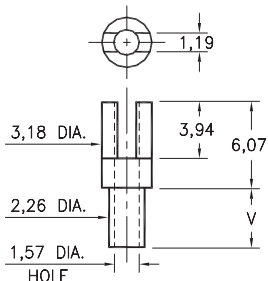


Basic Part Number	Board Thickness	Length V
2511-1	0,79	1,60
2511-2	1,57	2,39
2511-3	2,39	3,18
2511-4	3,18	3,96

2515

2515-X-01-XX-00-00-07-0

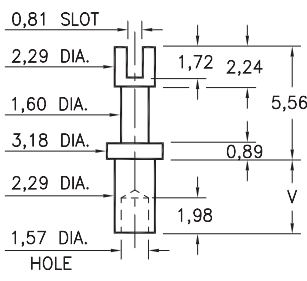
Swage mount in 2,39 hole



2516

2516-X-01-XX-00-00-07-0

Swage mount in 2,39 hole

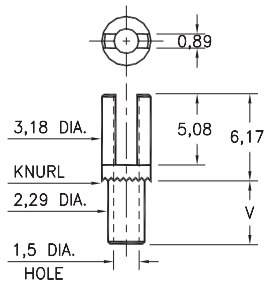


Basic Part Number	Board Thickness	Length V
251X-1	0,79	1,91
251X-2	1,57	2,67
251X-3	2,39	3,43
251X-4	3,18	3,73

2502

2502-X-01-XX-00-00-07-0

Swage mount in 2,39 hole



Basic Part Number	Board Thickness	Length V
2502-1	0,79	2,03
2502-2	1,57	2,82
2502-3	2,39	3,63
2502-4	3,18	4,42

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 01 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 44 7,62μm SILVER OVER COPPER (RoHS)
- 50 7,62μm ELECTRO-SOLDER
(60/40 SnPb)



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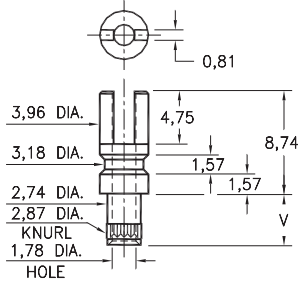
MALE PCB PINS

SOLDER TERMINALS SLOTTED

2715

2715-X-01-XX-00-00-07-0

Swage mount in 2,95 hole

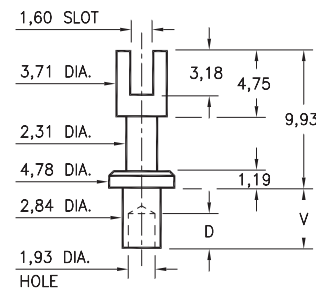


Basic Part Number	Board Thickness	Length V
2715-2	1,57	2,77
2715-3	2,39	3,58
2715-4	3,18	4,37

2809

2809-X-01-XX-00-00-07-0

Swage mount in 2,95 hole

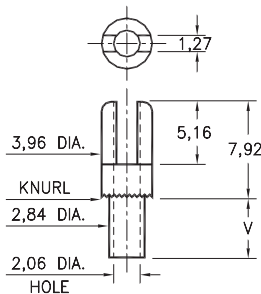


Basic Part Number	Board Thickness	Length V	Depth D
2809-1	0,79	1,98	1,73
2809-2	1,57	2,76	2,49
2809-3	2,39	3,58	2,49
2809-4	3,18	4,36	2,49

2701

2701-X-01-XX-00-00-07-0

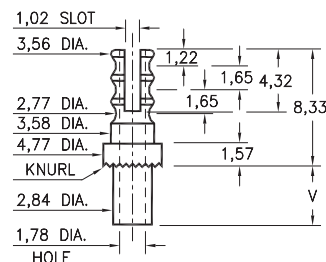
Swage mount in 2,95 hole



2808

2808-X-01-XX-00-00-07-0

Swage mount in 2,95 hole

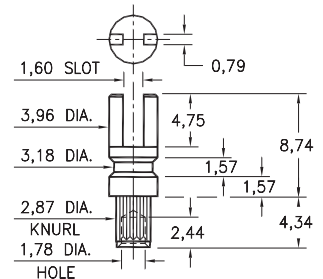


Basic Part Number	Board Thickness	Length V
2XXX-1	0,79	1,91
2XXX-2	1,57	2,67
2XXX-3	2,39	3,43
2XXX-4	3,18	4,19

2762

2762-4-01-XX-00-00-07-0

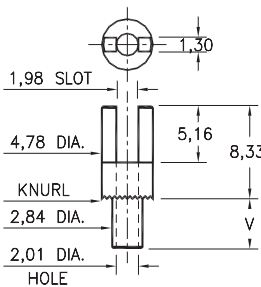
Swage mount in 2,95 hole
For a 3,18 thick board



2807

2807-X-01-XX-00-00-07-0

Swage mount in 2,95 hole



Basic Part Number	Board Thickness	Length V
2807-1	0,79	1,98
2807-2	1,57	2,77
2807-3	2,39	3,56
2807-4	3,18	4,34

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 01 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 44 7,62μm SILVER OVER COPPER (RoHS)
- 50 7,62μm ELECTRO-SOLDER
(60/40 SnPb)



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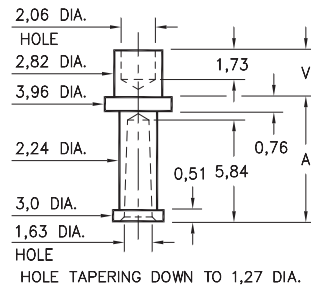
MALE PCB PINS

SOLDER TERMINALS VARIOUS TYPES

2709

2709-X-07-XX-00-00-07-0

Swage mount in 2,95 hole

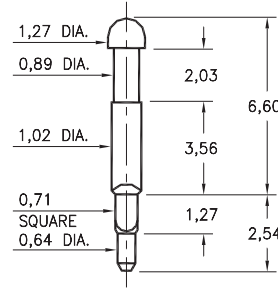


Basic Part Number	Board Thickness	Length V	Length A
2709-2	1,57	2,77	7,14
2709-3	2,39	3,58	6,35

8602

8602-1-00-XX-00-00-07-0

Square press-fit in 0,81 plated through-hole

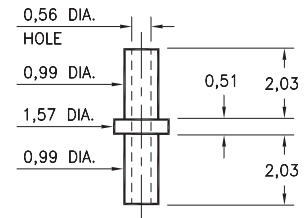


2115

2115-2-00-XX-00-00-07-0

Swage mount in 1,09 hole

For a 1,57 thick board

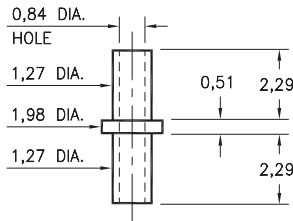


2326

2326-2-00-XX-00-00-07-0

Swage mount in 1,40 hole

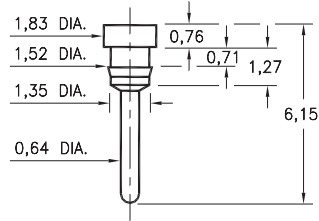
For a 1,57 thick board



8831

8831-0-00-XX-00-00-03-0

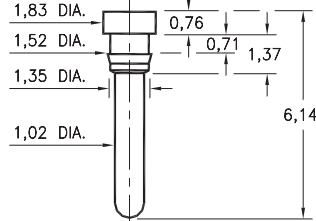
Press-fit in 1,45 mounting hole



8835

8835-0-00-XX-00-00-03-0

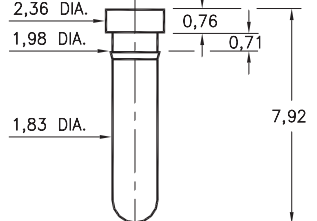
Press-fit in 1,45 mounting hole



8836

8836-0-00-XX-00-00-03-0

Press-fit in 1,91 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - XX - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 44 7,62μm SILVER OVER COPPER (RoHS)
- 50 7,62μm ELECTRO-SOLDER (60/40 SnPb)



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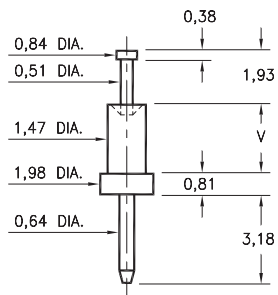
MALE PCB PINS

SOLDER TERMINALS PIN TYPE

2318

2318-X-00-XX-00-00-07-0

Swage mount in 1,57 hole

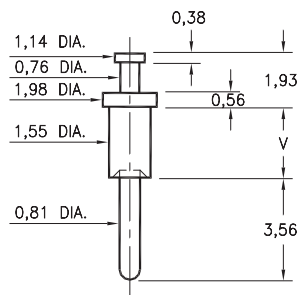


Basic Part Number	Board Thickness	Length V
2318-1	0,79	1,30
2318-2	1,57	2,08
2318-3	2,39	2,87

2309

2309-X-00-XX-00-00-07-0

Swage mount in 1,63 hole

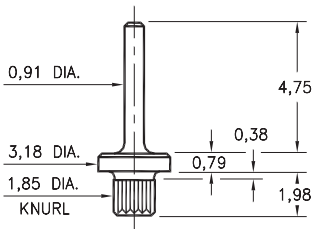


Basic Part Number	Board Thickness	Length V
2309-1	0,79	1,37
2309-2	1,57	2,13
2309-3	2,39	2,92
2309-4	3,18	3,73

2514

2514-2-00-XX-00-00-07-0

Press-fit in 1,78 mounting hole



SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 44 7,62μm SILVER OVER COPPER (RoHS)
- 50 7,62μm ELECTRO-SOLDER
(60/40 SnPb)



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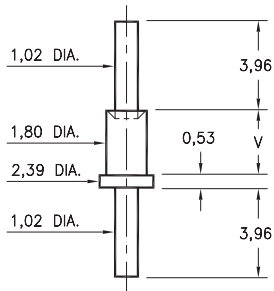
MALE PCB PINS

SOLDER TERMINALS PIN TYPE

2319

2319-X-00-XX-00-00-07-0

Swage mount in 1,93 hole

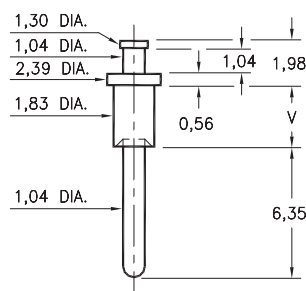


Basic Part Number	Board Thickness	Length V
2319-1	0,79	1,30
2319-2	1,57	2,08
2319-3	2,39	2,87

2313

2313-X-00-XX-00-00-07-0

Swage mount in 1,93 hole

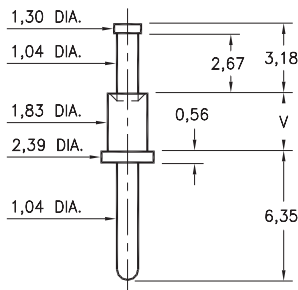


Basic Part Number	Board Thickness	Length V
2313-1	0,79	1,30
2313-2	1,57	2,13
2313-3	2,39	2,87
2313-4	3,18	3,68

2321

2321-X-00-XX-00-00-07-0

Swage mount in 1,93 hole

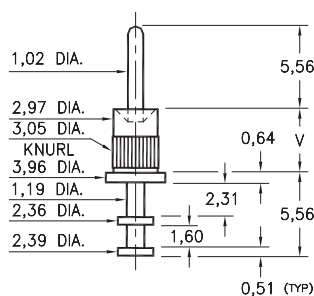


Basic Part Number	Board Thickness	Length V
2321-1	0,79	1,30
2321-2	1,57	2,08
2321-3	2,39	2,87
2321-4	3,18	3,68

2706

2706-X-00-XX-00-00-07-0

Swage mount in 3,05 hole

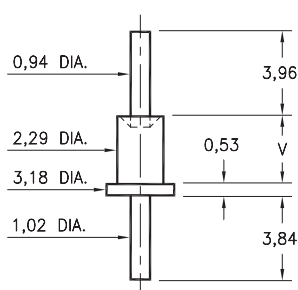


Basic Part Number	Board Thickness	Length V
2706-1	0,79	1,60
2706-2	1,57	2,36
2706-3	2,39	3,18
2706-4	3,18	3,96

2530

2530-X-00-XX-00-00-07-0

Swage mount in 2,39 hole

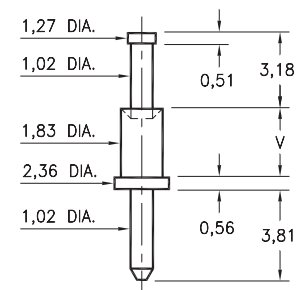


Basic Part Number	Board Thickness	Length V
2530-2	1,57	2,39
2530-3	2,39	3,18
2530-4	3,18	3,96

3156

3156-X-00-XX-00-00-08-0

Swage mount in 1,93 hole



Basic Part Number	Board Thickness	Length V
3156-1	0,79	1,30
3156-2	1,57	2,08
3156-3	2,39	2,87
3156-4	3,18	3,68

SPECIFICATIONS:

Pin Material: Brass Alloy 360, 1/2 Hard
(Swage pins are annealed)

Dimensions: Millimeters

Tolerances On: Lengths: $\pm 0,13$
Diameters: $\pm 0,051$
Angles: $\pm 2^\circ$



ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 5,08μm TIN/LEAD OVER NICKEL
- ◆ 80 5,08μm TIN OVER NICKEL (RoHS)
- ◆ 44 7,62μm SILVER OVER COPPER (RoHS)
- 50 7,62μm ELECTRO-SOLDER
(60/40 SnPb)



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CUSTOM PRODUCT WORKSHEET

PHOTOCOPY THIS PAGE AND FAX, SCAN OR E-MAIL TO MILL-MAX FOR A PROMPT QUOTATION

Mill-Max Mfg. Corp., P.O. Box 300, 190 Pine Hollow Road, Oyster Bay, NY 11771-0300 www.mill-max.com

NAME: _____ **TITLE:** _____

COMPANY: _____ **DATE:** _____

ADDRESS: _____ **PHONE:** _____

EMAIL: _____

QUANTITIES TO QUOTE: _____

SPECIFICATIONS OF MACHINED PINS, TERMINALS, RECEPTACLE SHELLS, INSULATORS, etc.

SIMILAR MILL-MAX PART #: _____

PIN MATERIAL: ☐ **BRASS**

PHOSPHOR BRONZE

TELLURIUM COPPER

INSULATOR **FR-4 EPOXY**

MATERIAL: ☐ **HIGH TEMP. THERMOPLASTIC**

(Check available stock sizes on page 263)

PIN FINISH: **TIN over NICKEL**

TIN/LEAD over NICKEL

 μm **GOLD over NICKEL**

SILVER over COPPER

OTHER: _____

**ADDITIONAL SPECIFICATIONS FOR
RECEPTACLE ONLY:**

SIZE OF MATING PIN OR

COMPONENT LEAD: _____

(round/square/rectangular)

LENGTH OF MATING PIN/LEAD: _____

USE MILL-MAX CONTACT TYPE#: _____

(See page 248 for selector chart)

**REQUIRED INSERTION/
EXTRACTION FORCES:**

☐ **LOW** ☐ **MEDIUM** ☐ **HIGH**

CONTACT FINISH: ☐ **TIN over NICKEL**

μm GOLD over NICKEL

OTHER: _____

STANDARD MACHINING TOLERANCES ARE $\pm 0,051$ FOR DIAMETERS,
 $\pm 0,13$ FOR LENGTHS. IF TIGHTER TOLERANCES ARE REQUIRED,
 PLEASE SPECIFY CRITICAL DIMENSIONS ON SKETCH BELOW.

ARE THERE ANY UNUSUAL REQUIREMENTS SUCH AS HIGH
OPERATING TEMPERATURE OR CURRENT RATING? _____

[illegible]

IF YOU NEED ASSISTANCE, PLEASE CALL MILL-MAX AND ASK FOR AN APPLICATIONS ENGINEER



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GENERAL CONTACT INFO

THE "MULTI-FINGER" CONTACT

Mill-Max makes pin receptacles by press-fitting a "multi-finger" spring contact into a machined shell. A selection of over 36 contact types are pre-tooled for those who wish to design custom receptacles. This extensive family of contacts will accept round pins ranging from 0,20 to 2,59 diameter, as well as rectangular component leads and square wraposts, where the effective diameter is taken as the diagonal dimension of the lead.

Many contacts are interchangeable within a given shell, and so the contact selector chart has been organized by alternate contact groupings. Standard receptacles found in this catalog can be easily assembled with alternate contacts to suit special applications, for example: low insertion force or high operating temperature.

Contact Groups	Contact Type	Accepts Minimum Pin Diameter	Accepts Maximum Pin Diameter	Contact Compliance δ	Contact Length	Number of Fingers	Contact Material	Current Rating (For 10°C ΔT)		
No Alternate	#04	0,20	0,33	0,08	1,35	3	BeCu	2A		
No Alternate	#10	0,30	0,43	0,05	1,52	6				
A	#09	0,38	0,46	0,05	1,30	3	BeCu	3A		
	#11		0,51	0,08	1,91					
	#21		0,56	0,10						
	#05			0,51					0,08	
	#25			0,56	0,08		BeNi			
B	#12		0,56	0,08	1,57	4	BeCu		4.5A	
	#22			0,13		6				
C	#30		0,64	0,10	2,11	4	BeNi			BeCu
	#38			0,23		6				
	#32		0,66	0,20						
	#35			0,20						
	#43									
K	#15	0,51	0,81	0,13	2,13	BeNi	8A			
	#19			0,08						
D	#06	0,56		0,18	2,87	4		BeCu		
	#26			0,13				BeNi		
	#16	0,86		0,15	2,11	6		BeCu		
	#47		0,28	BeNi						
	#56	0,94	0,23							
L	#18		0,94	1,09	0,10	1,57	BeCu	11.2A		
	#58	0,08								
E	#36	0,56	1,07	0,56	3,05	4	BeCu			
	#34	0,81	1,17	0,25	3,05					
	#49			0,15	3,18					
	#24			0,23	3,05		BeNi			
F	#02	1,02	1,27	0,15	2,24	6	BeCu	20A		
	#28	1,07	1,32	0,13						
J	#42	1,35	1,60	0,10	3,81	4		BeCu	11.2A	
	#03	1,02	1,52	0,25						
G	#23	1,14	1,65	0,20	2,54	6				BeNi
	#13	1,22	1,63	0,25	3,23	4		BeCu		
	#33			0,20						
H	#07	1,65	2,08	0,33	3,81	4	BeCu	15A		
	#27			0,30			BeNi			
	#14		2,16	0,36			BeCu			
No Alternate	#08	2,13	2,59	0,28	3,10	6	BeCu	18A		

GENERAL CONTACT INFO

CONTACT SPECIFICATIONS

The Mill-Max “multi-finger” contact exhibits wide conformity, eg. the ability of any single contact to accept a broad range of round pins as well as rectangular or square leads.

The insertion/extraction force characteristics that follow were derived using 0,76µm gold-plated contacts and bullet-shaped polished steel, gauge pins. The curves represent typical average values. The charts only guide you in selecting a clip that is close to your specification. Your results may vary, so for your specification, **visit www.mill-max.com to obtain complimentary samples of a receptacle assembly for your evaluation.**

COMPLIANCY (δ)

The compliancy factor (δ) describes the re-configured operating range after inserting the largest permissible mating pin.

For example: the # 34 contact has an initial operating range from 0,81 to 1,17 diameter pins. After insertion of a 1,17 pin, the contact is sized, and the minimum pin acceptance becomes $1,17 - 0,25 = 0,91$. Thus, the new operating range becomes 0,91 to 1,17.

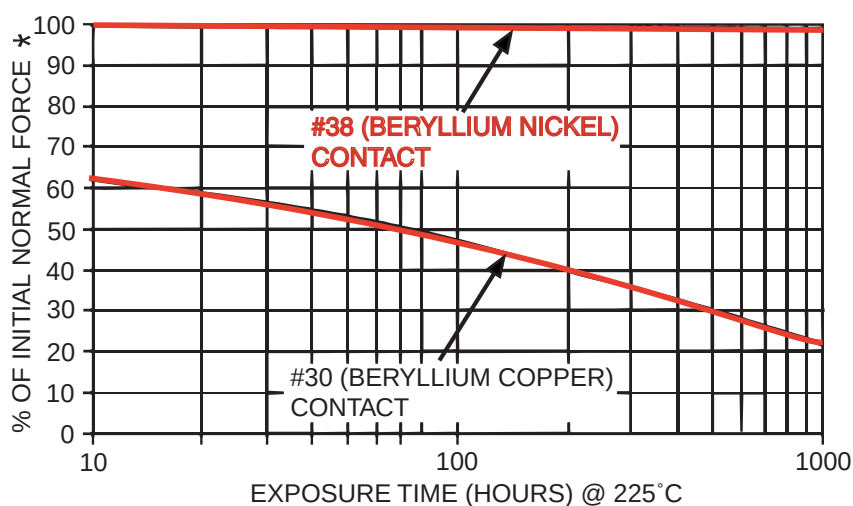
CONTACT MATERIAL AND STRESS RELAXATION AT HIGH TEMPERATURE

Mill-Max Mfg. contacts are made from either beryllium copper or beryllium nickel that has been heat treated to achieve ultimate spring properties. The graph illustrates how beryllium copper loses its spring properties over time at a high temperature (225°C). Thus, for burn-in applications and continuous operation above 150°C, beryllium nickel should be substituted for beryllium copper.

CURRENT RATING

Current rating for each contact group can be found in the contact selector chart on page 248. This current rating (for a 10° C temperature rise above ambient) is conservative, since it rates an individual pin/receptacle pair in free air. For all practical applications, the current rating will be higher because of the heat sinking ability of wires and circuit traces attached to the pins and receptacles.

Mill-Max receptacles are capable of 1,000 minimum insertion/extraction cycles for a broad range of applications. Mating pin size, shape and finish, along with application specific variables, will affect the life of a contact.



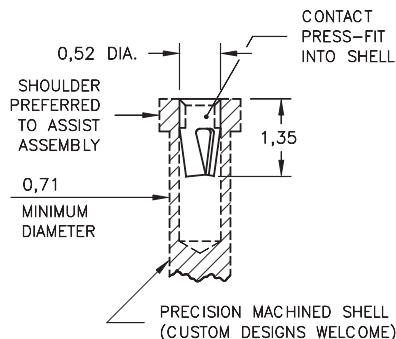
CONTACT DATA

INSERTION / EXTRACTION FORCE GRAPHS

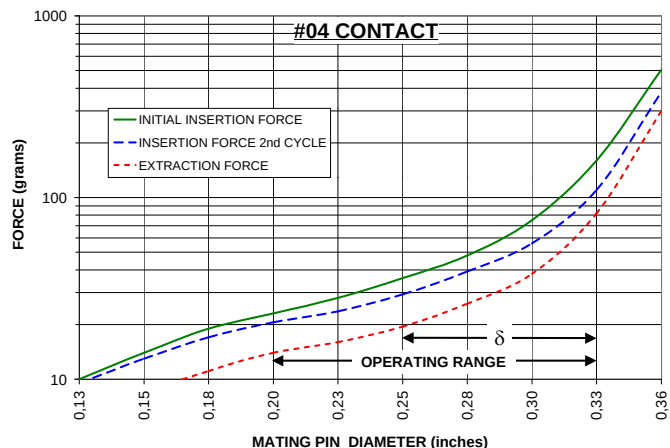
#04 CONTACT

FOR 0,20 - 0,33 DIAMETER PINS ($\delta = 0,08$)
3-FINGER

(See page 248)



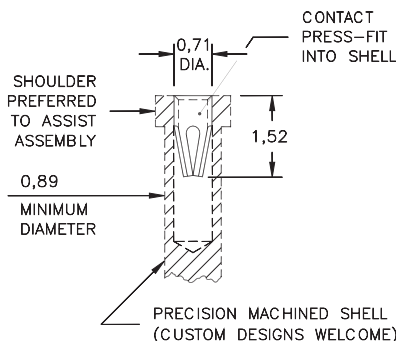
CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated



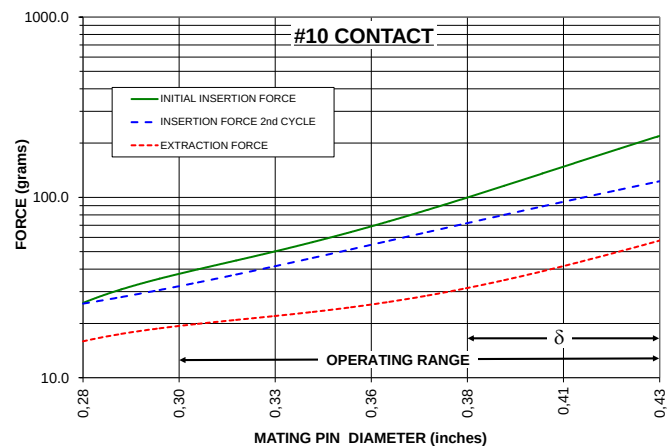
#10 CONTACT

FOR 0,30 - 0,43 DIAMETER PINS ($\delta = 0,05$)
6-FINGER

(See page 248)



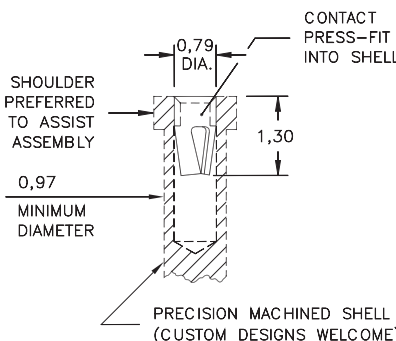
CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated



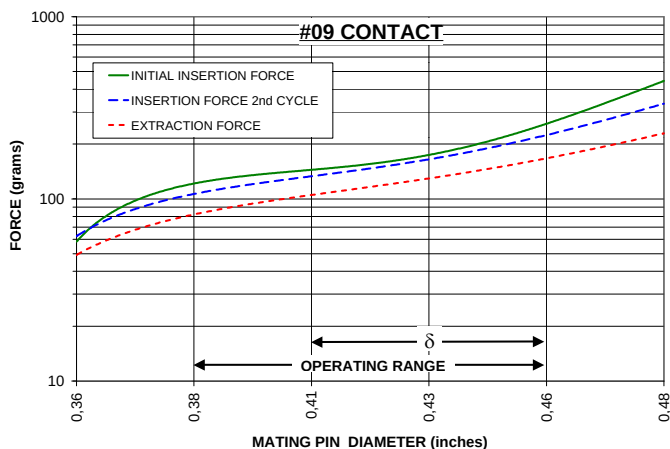
#09 CONTACT

FOR 0,38 - 0,46 DIAMETER PINS ($\delta = 0,05$)
3-FINGER, GROUP A

(See page 248)



CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated



The insertion / extraction force characteristics above were derived using a 0,76 micrometers gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.



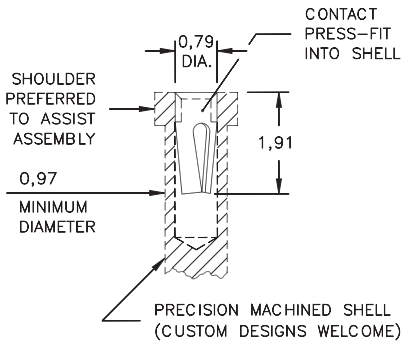
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CONTACT DATA

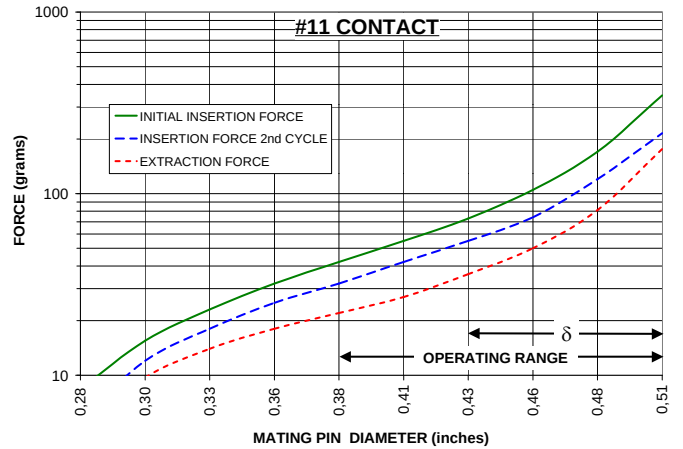
INSERTION / EXTRACTION FORCE GRAPHS

#11 CONTACT

FOR 0,38 - 0,51 DIAMETER PINS ($\delta = 0,08$)
3-FINGER, GROUP A (See page 248)

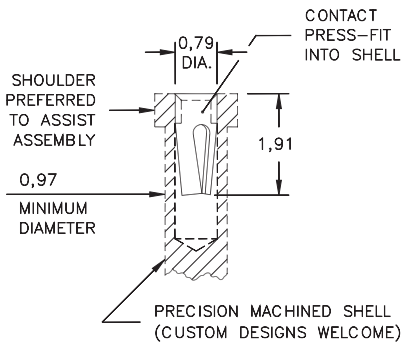


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

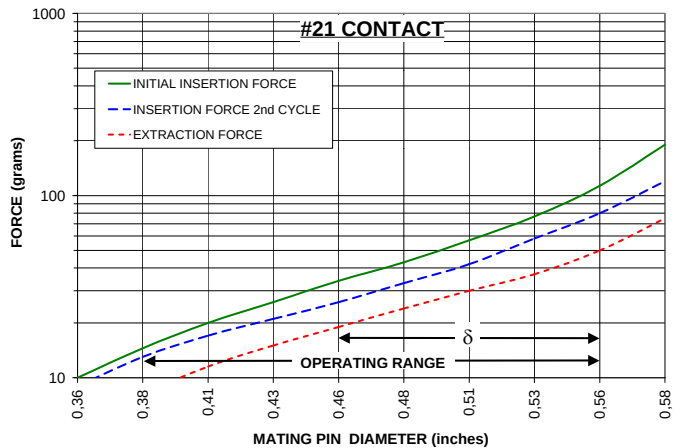


#21 CONTACT

FOR 0,38 - 0,56 DIAMETER PINS ($\delta = 0,10$)
3-FINGER, GROUP A (See page 248)

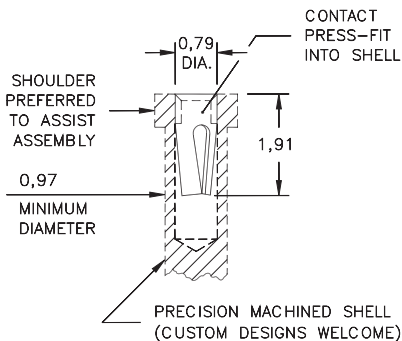


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

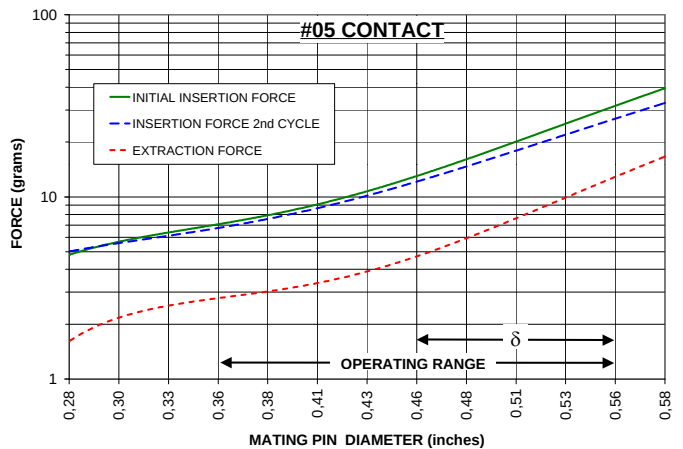


#05 CONTACT

FOR 0,38 - 0,56 DIAMETER PINS ($\delta = 0,10$)
3-FINGER, GROUP A (See page 248)



CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated



The insertion / extraction force characteristics above were derived using a 0,76 micrometers gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

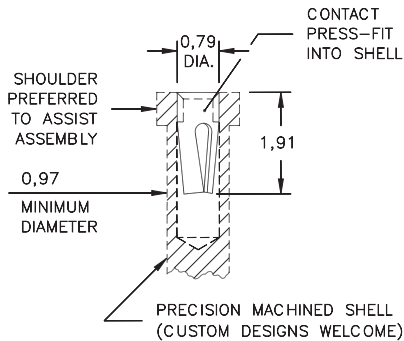


CONTACT DATA

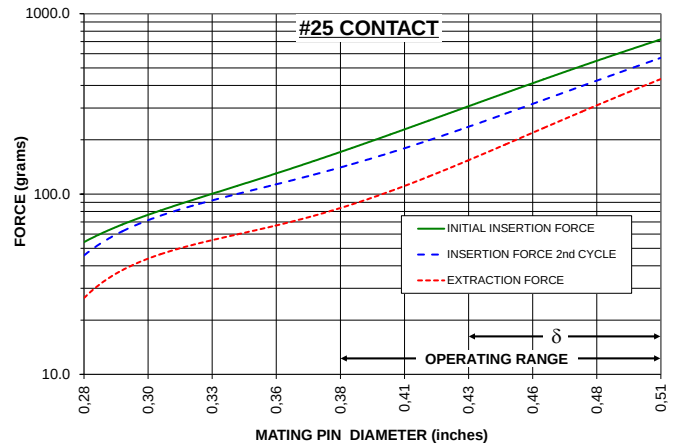
INSERTION / EXTRACTION FORCE GRAPHS

#25 CONTACT

FOR 0,38 - 0,51 DIAMETER PINS ($\delta = 0,08$)
3-FINGER, GROUP A (See page 248)

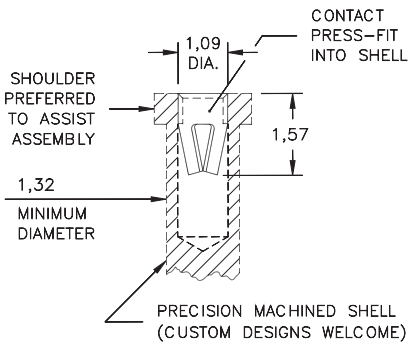


CONTACT MATERIAL
BERYLLIUM NICKEL
Alloy 360,
Heat Treated

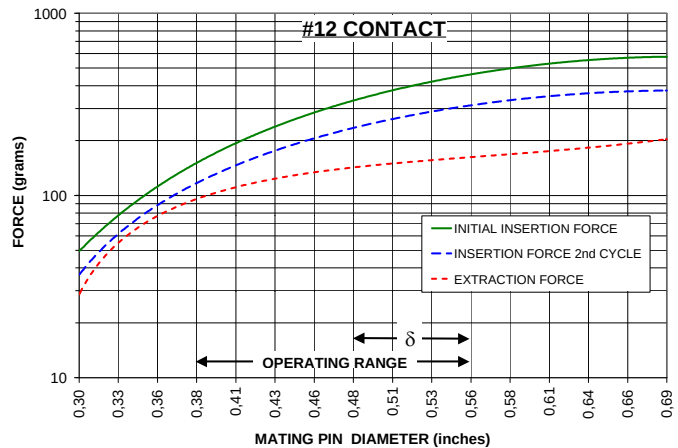


#12 CONTACT

FOR 0,38 - 0,56 DIAMETER PINS ($\delta = 0,08$)
4-FINGER, GROUP B (See page 248)

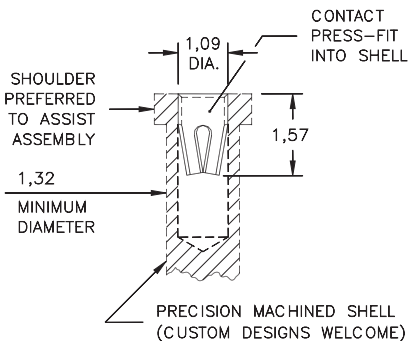


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

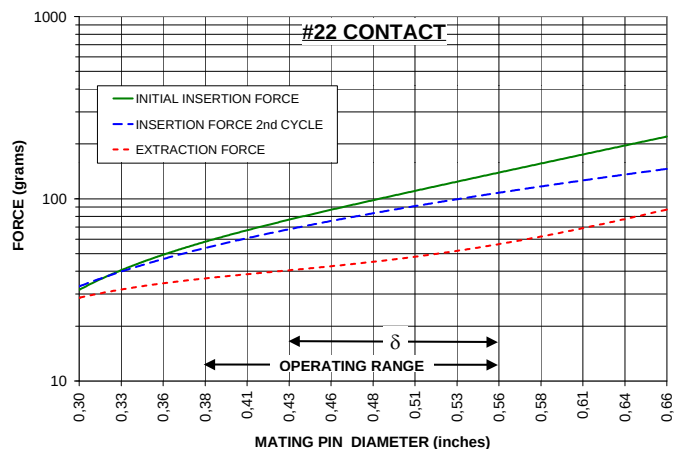


#22 CONTACT

FOR 0,38 - 0,56 DIAMETER PINS ($\delta = 0,13$)
6-FINGER, GROUP B (See page 248)



CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated



The insertion / extraction force characteristics above were derived using a 0,76 micrometers gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.



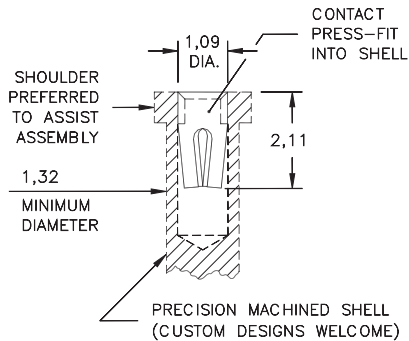
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CONTACT DATA

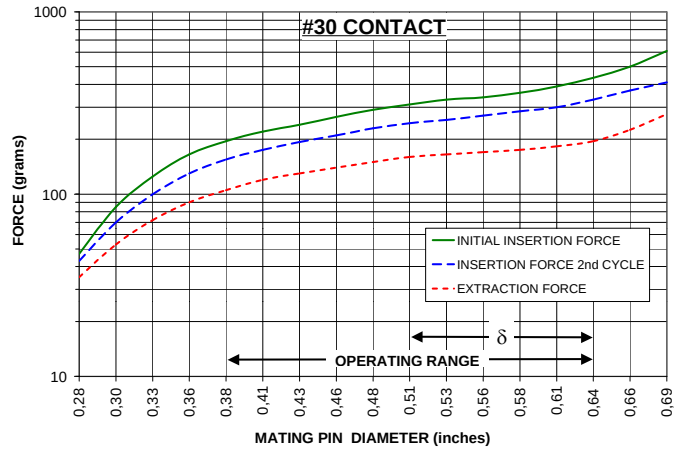
INSERTION / EXTRACTION FORCE GRAPHS

#30 CONTACT

FOR 0,38 - 0,64 DIAMETER PINS ($\delta = 0,13$)
4-FINGER, GROUP C (See page 248)

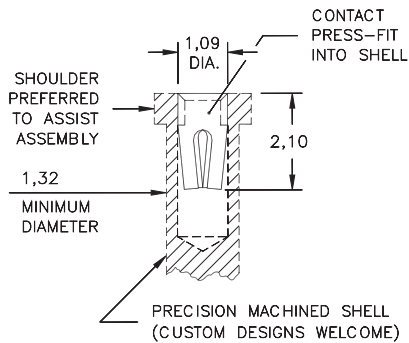


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

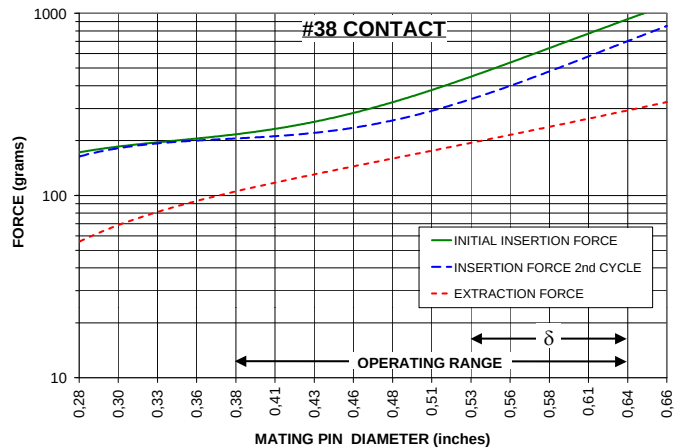


#38 CONTACT

FOR 0,38 - 0,64 DIAMETER PINS ($\delta = 0,10$)
4-FINGER, GROUP C (See page 248)

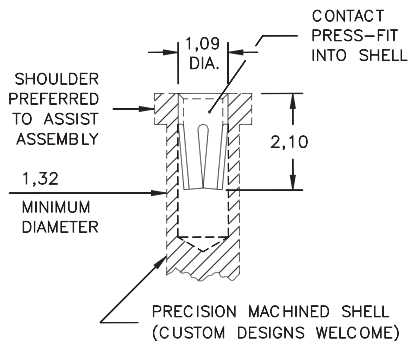


CONTACT MATERIAL
BERYLLIUM NICKEL
Alloy 360,
Heat Treated

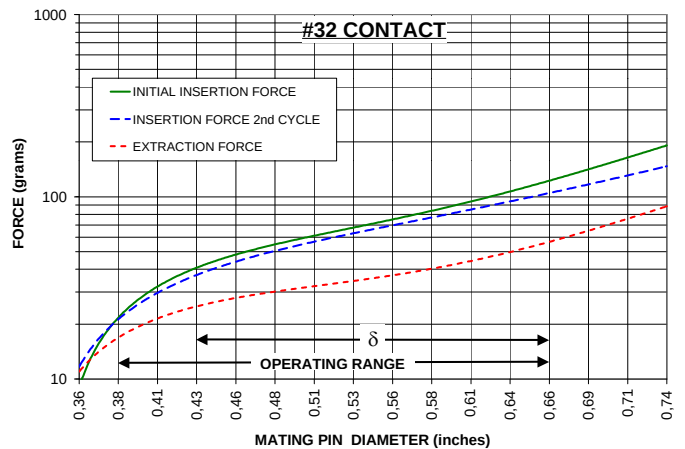


#32 CONTACT

FOR 0,38 - 0,66 DIAMETER PINS ($\delta = 0,23$)
6-FINGER, GROUP C (See page 248)



CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated



The insertion / extraction force characteristics above were derived using a 0,76 micrometers gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

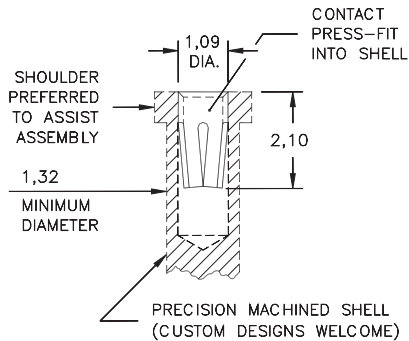


CONTACT DATA

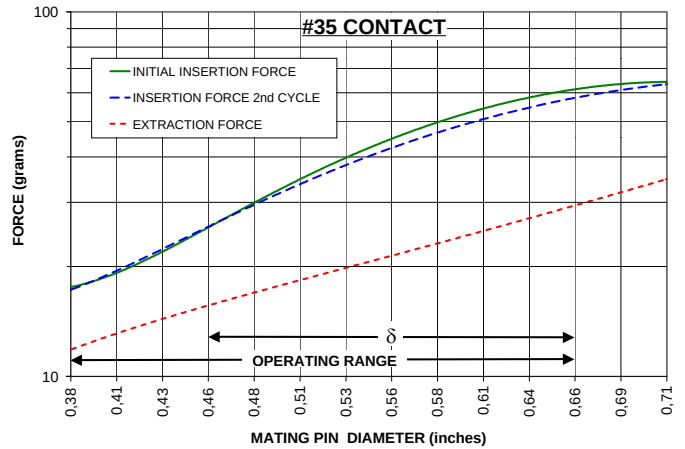
INSERTION / EXTRACTION FORCE GRAPHS

#35 CONTACT

FOR 0,38 - 0,66 DIAMETER PINS ($\delta = 0,20$)
6-FINGER, GROUP C (See page 248)

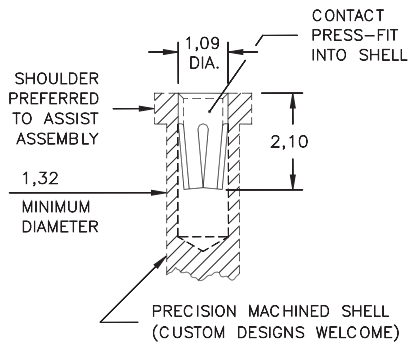


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

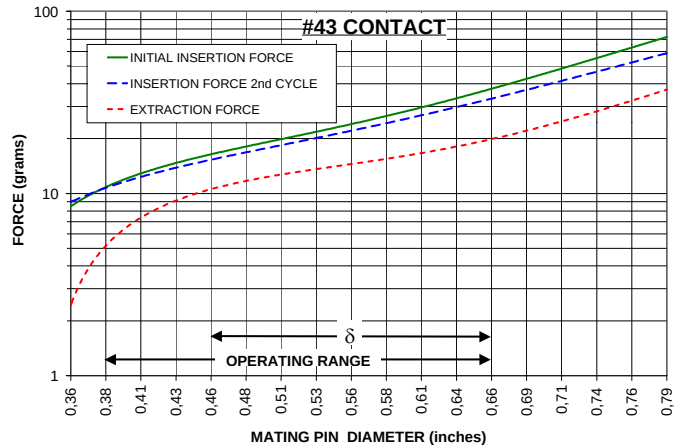


#43 CONTACT

FOR 0,38 - 0,66 DIAMETER PINS ($\delta = 0,20$)
6-FINGER, GROUP C (See page 248)

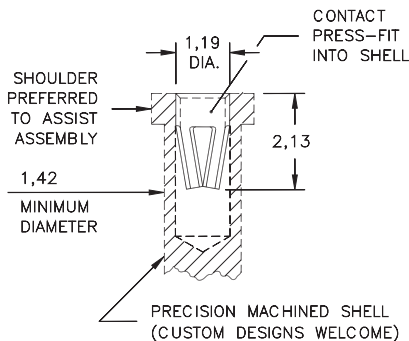


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

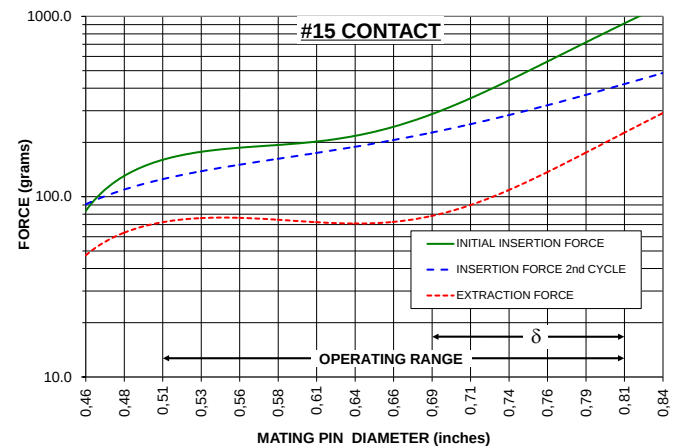


#15 CONTACT

FOR 0,51 - 0,81 DIAMETER PINS ($\delta = 0,13$)
6-FINGER, GROUP K (See page 248)



CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated



The insertion / extraction force characteristics above were derived using a 0,76 micrometers gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

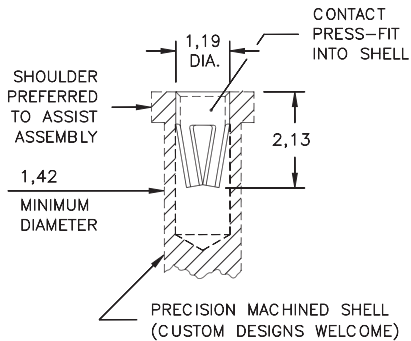


CONTACT DATA

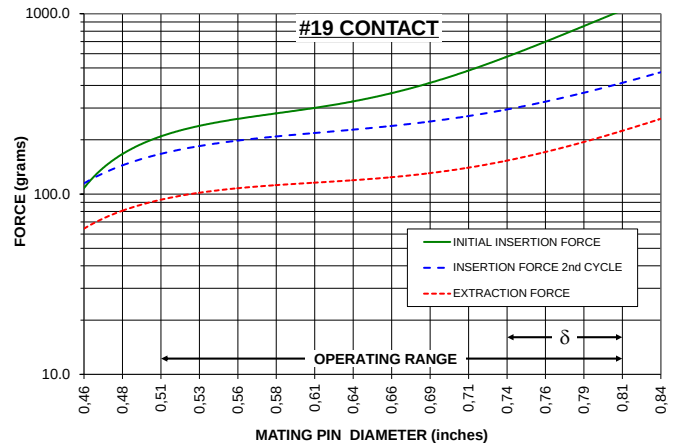
INSERTION / EXTRACTION FORCE GRAPHS

#19 CONTACT

FOR 0,51 - 0,81 DIAMETER PINS ($\delta = 0,08$)
6-FINGER, GROUP K (See page 248)

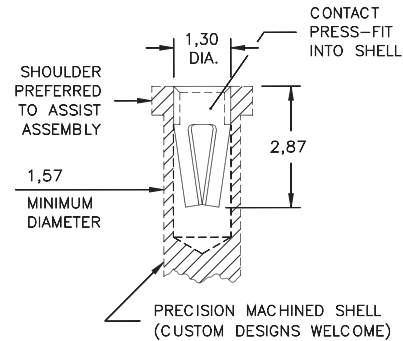


CONTACT MATERIAL
BERYLLIUM NICKEL
Alloy 360,
Heat Treated

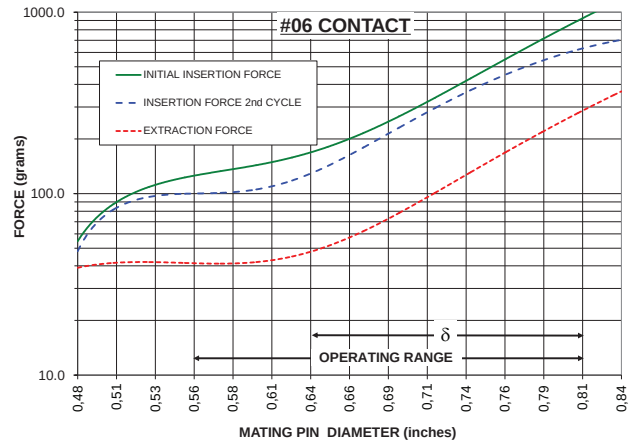


#06 CONTACT

FOR 0,56 - 0,81 DIAMETER PINS ($\delta = 0,18$)
4-FINGER, GROUP D (See page 248)

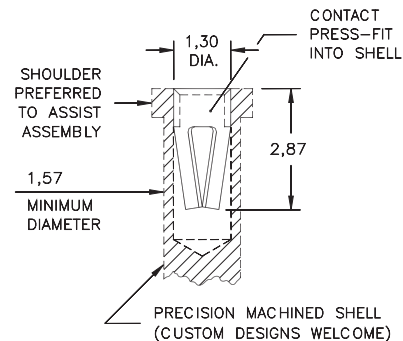


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

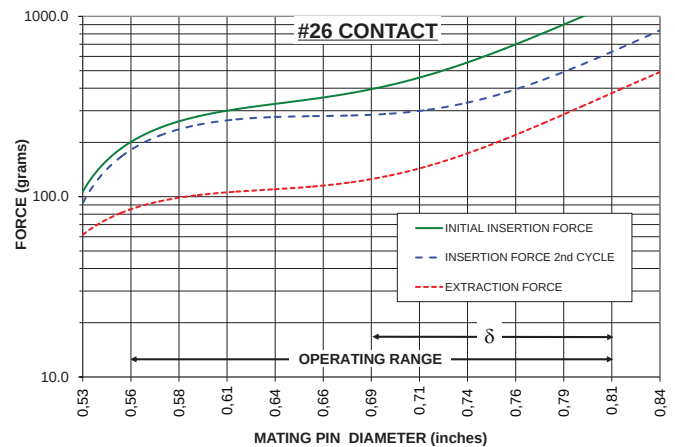


#26 CONTACT

FOR 0,56 - 0,81 DIAMETER PINS ($\delta = 0,13$)
4-FINGER, GROUP D (See page 248)



CONTACT MATERIAL
BERYLLIUM NICKEL
Alloy 360,
Heat Treated



The insertion / extraction force characteristics above were derived using a 0,76 micrometers gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

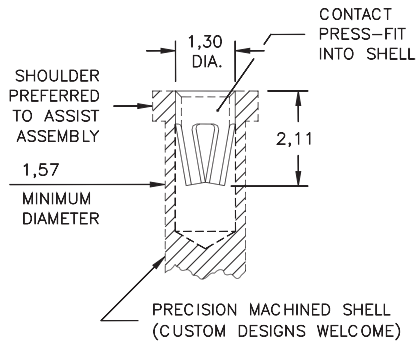


CONTACT DATA

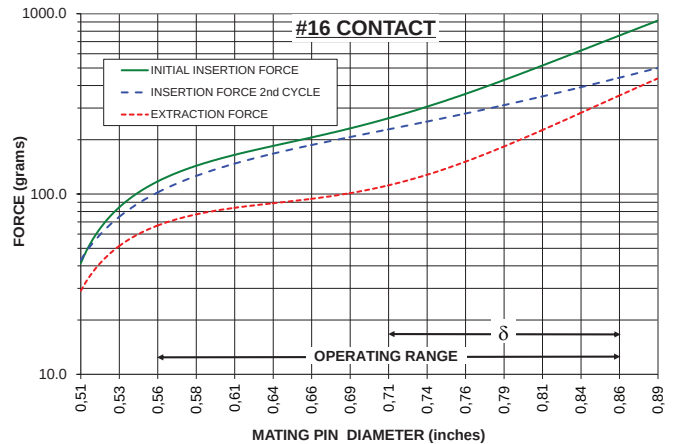
INSERTION / EXTRACTION FORCE GRAPHS

#16 CONTACT

FOR 0,56 - 0,86 DIA. & 0,64 SQ. ($\delta = 0,15$)
6-FINGER, GROUP D (See page 248)

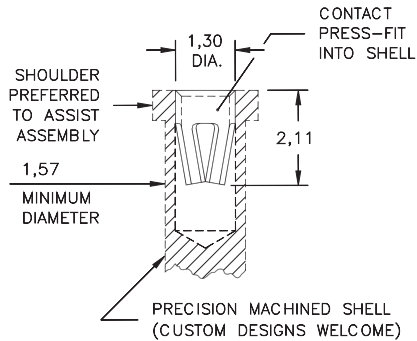


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

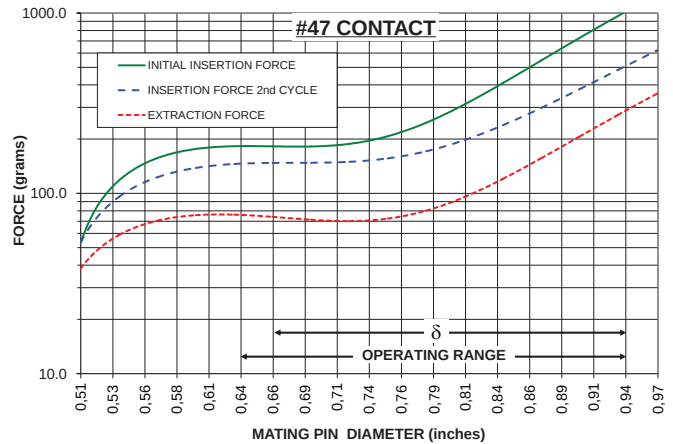


#47 CONTACT

FOR 0,64 - 0,94 DIA. & 0,64 SQ. ($\delta = 0,28$)
6-FINGER, GROUP D (See page 248)

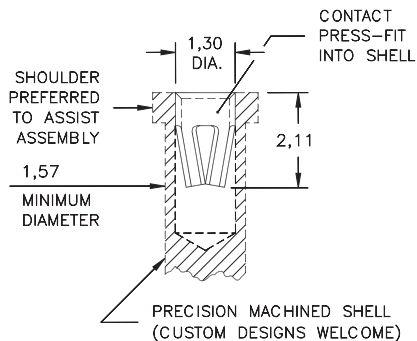


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

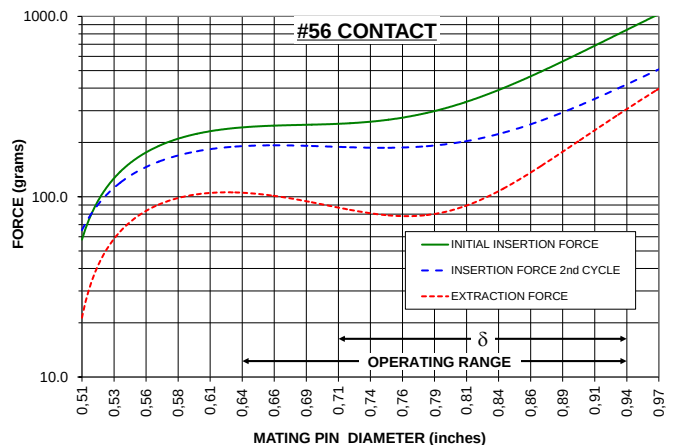


#56 CONTACT

FOR 0,64 - 0,94 DIA. & 0,64 SQ. ($\delta = 0,23$)
6-FINGER, GROUP D (See page 248)



CONTACT MATERIAL
BERYLLIUM NICKEL
Alloy 360,
Heat Treated



The insertion / extraction force characteristics above were derived using a 0,76 micrometers gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

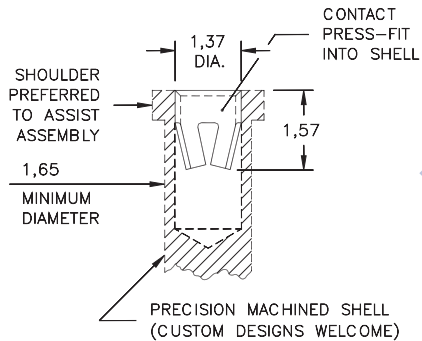


CONTACT DATA

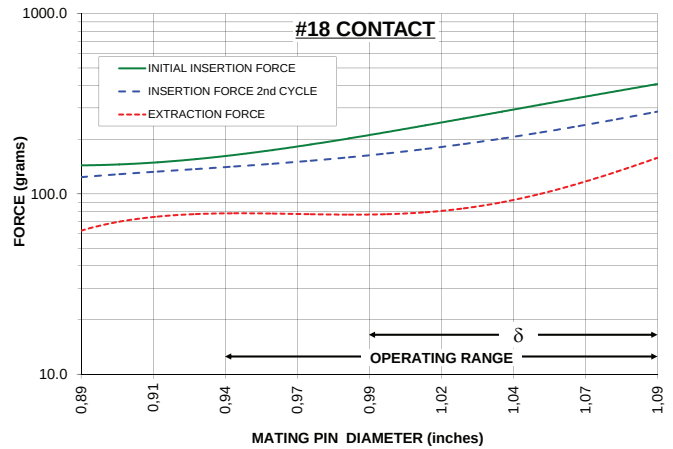
INSERTION / EXTRACTION FORCE GRAPHS

#18 CONTACT

FOR 0,94 - 1,09 DIAMETER PINS ($\delta = 0,08$)
6-FINGER, GROUP L (See page 248)

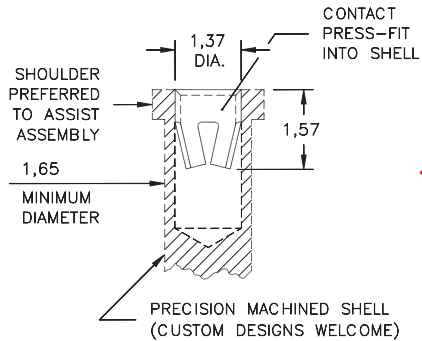


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

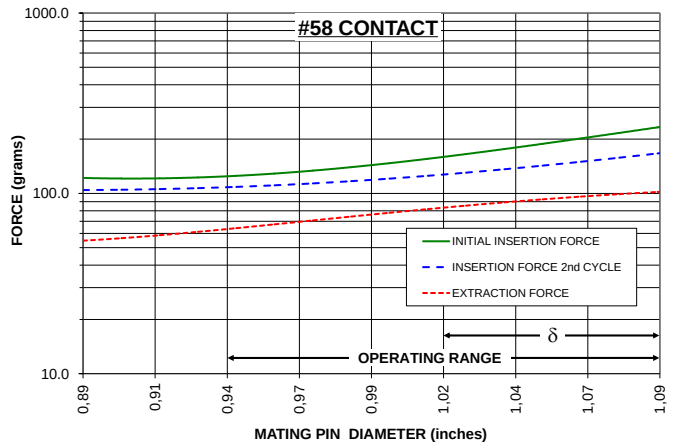


#58 CONTACT

FOR 0,94 - 1,09 DIAMETER PINS ($\delta = 0,08$)
6-FINGER, GROUP L (See page 248)

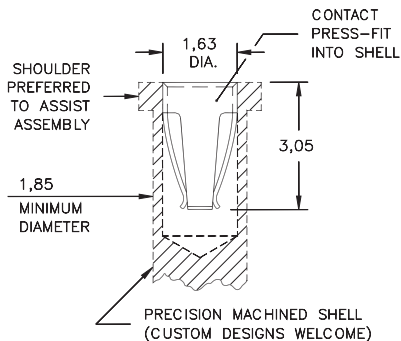


CONTACT MATERIAL
BERYLLIUM NICKEL
Alloy 360,
Heat Treated

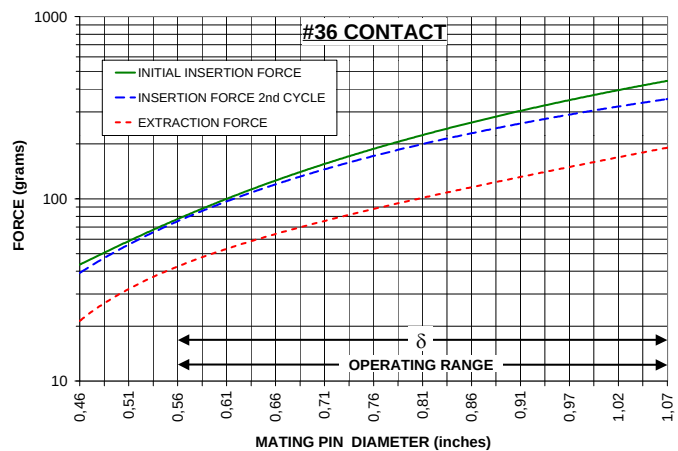


#36 CONTACT

FOR 0,56 - 1,07 DIAMETER PINS ($\delta = 0,56$)
4-FINGER, GROUP E (See page 248)



CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated



The insertion / extraction force characteristics above were derived using a 0,76 micrometers gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

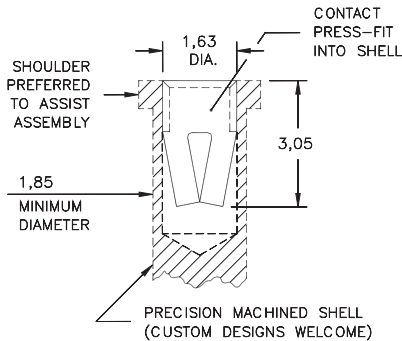


CONTACT DATA

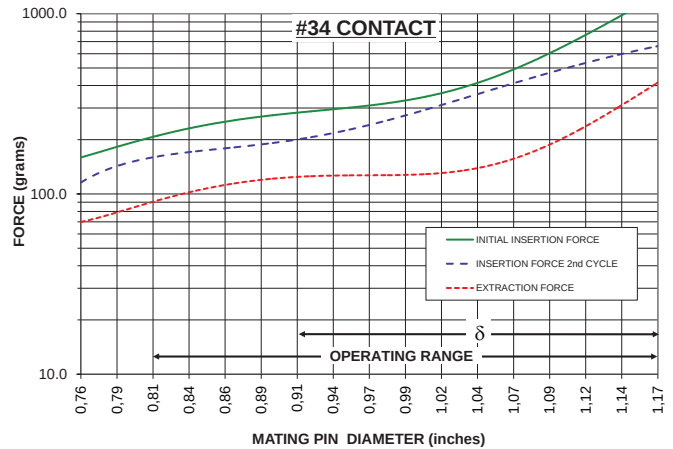
INSERTION / EXTRACTION FORCE GRAPHS

#34 CONTACT

FOR 0,81 - 1,17 DIAMETER PINS ($\delta = 0,25$)
4-FINGER, GROUP E (See page 248)

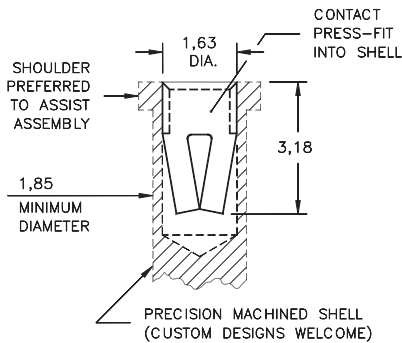


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

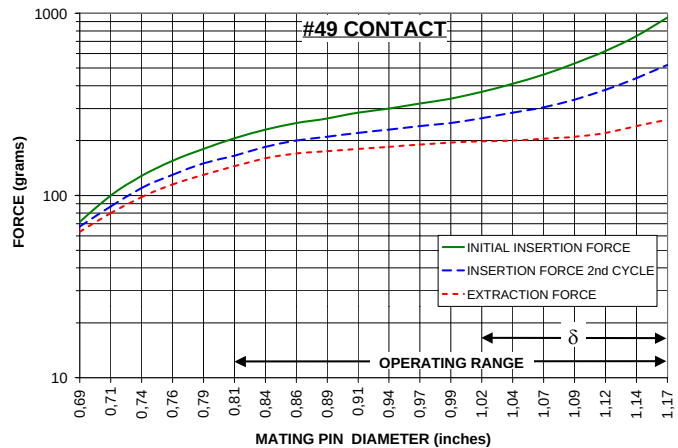


#49 CONTACT

FOR 0,81 - 1,17 DIAMETER PINS ($\delta = 0,15$)
4-FINGER, GROUP E (See page 248)

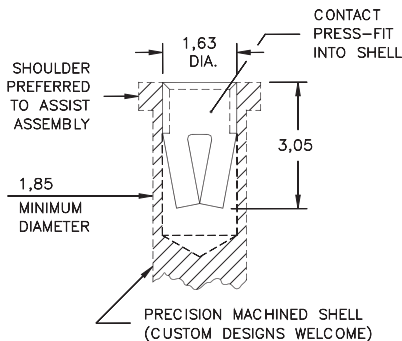


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

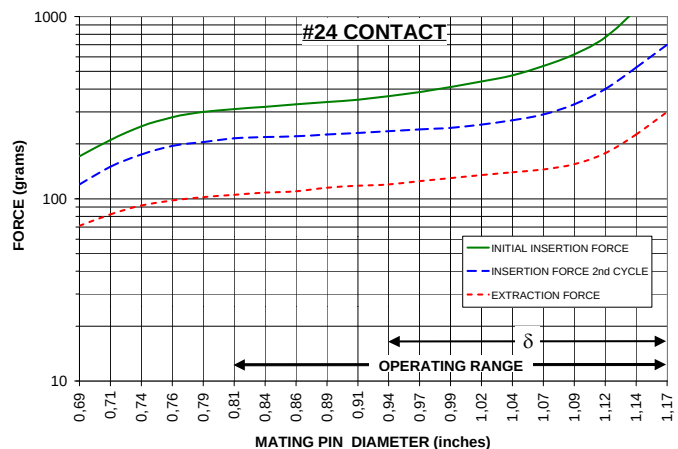


#24 CONTACT

FOR 0,81 - 1,17 DIAMETER PINS ($\delta = 0,23$)
4-FINGER, GROUP E (See page 248)



CONTACT MATERIAL
BERYLLIUM NICKEL
Alloy 360,
Heat Treated



The insertion / extraction force characteristics above were derived using a 0,76 micrometers gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.



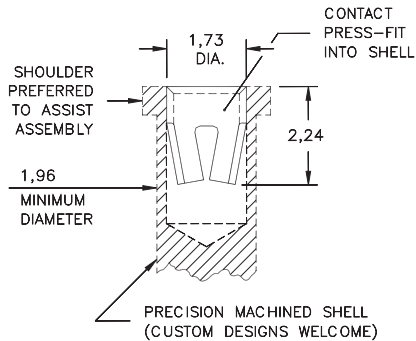
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CONTACT DATA

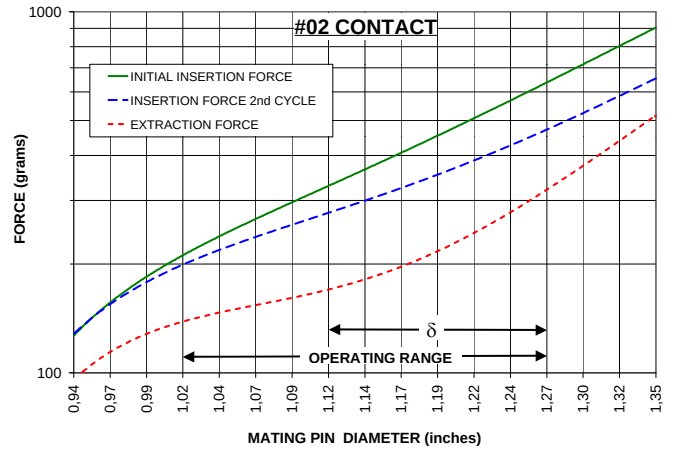
INSERTION / EXTRACTION FORCE GRAPHS

#02 CONTACT

FOR 1,02 - 1,27 DIAMETER PINS ($\delta = 0,15$)
6-FINGER, GROUP F (See page 248)

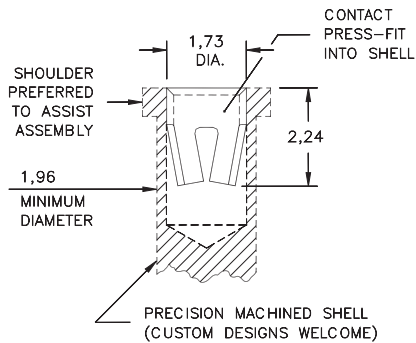


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

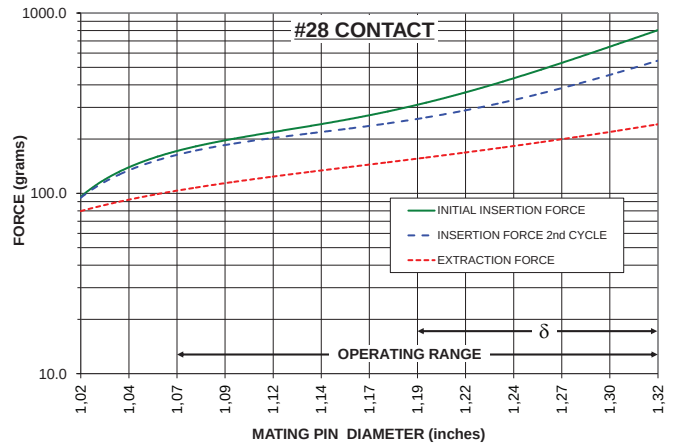


#28 CONTACT

FOR 1,07 - 1,32 DIAMETER PINS ($\delta = 0,13$)
6-FINGER, GROUP F (See page 248)

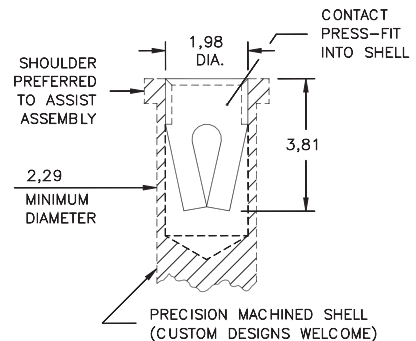


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

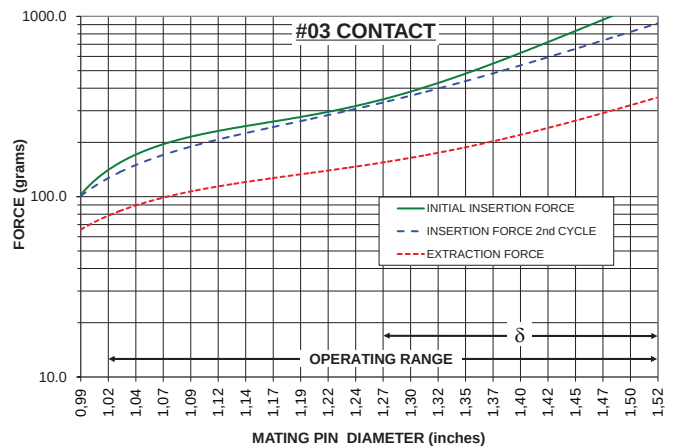


#03 CONTACT

FOR 1,02 - 1,52 DIAMETER PINS ($\delta = 0,25$)
4-FINGER, GROUP J (See page 248)



CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated



The insertion / extraction force characteristics above were derived using a 0,76 micrometers gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

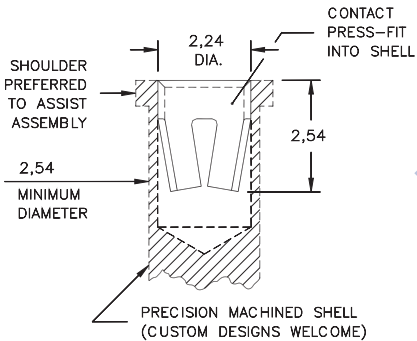


CONTACT DATA

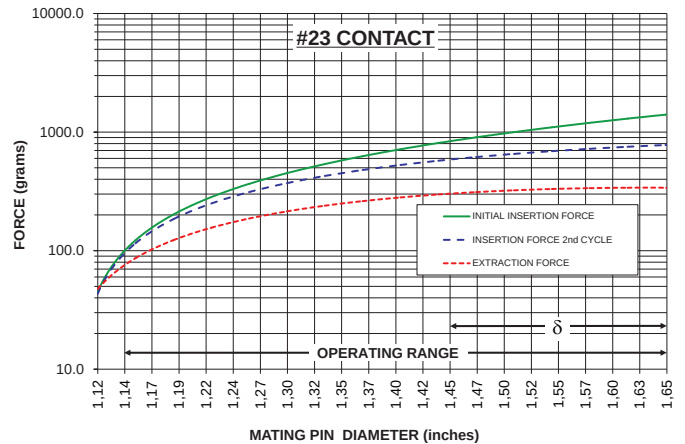
INSERTION / EXTRACTION FORCE GRAPHS

#23 CONTACT

FOR 1,14 - 1,65 DIAMETER PINS ($\delta = 0,20$)
6-FINGER, GROUP G (See page 248)

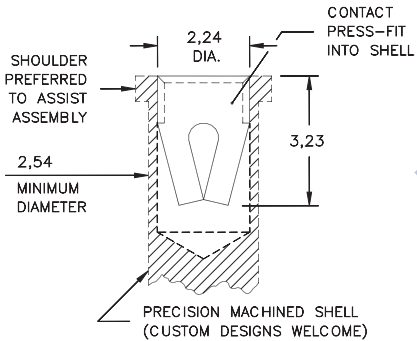


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

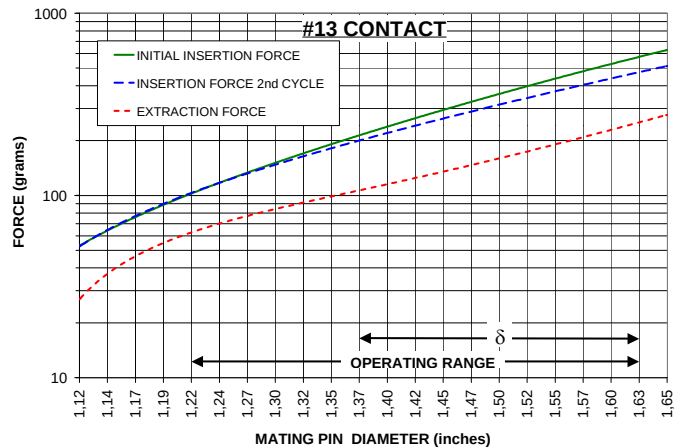


#13 CONTACT

FOR 1,22 - 1,63 DIAMETER PINS ($\delta = 0,25$)
4-FINGER, GROUP G (See page 248)

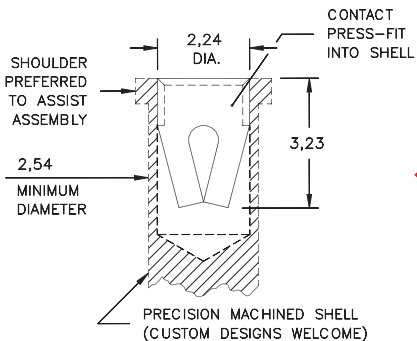


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

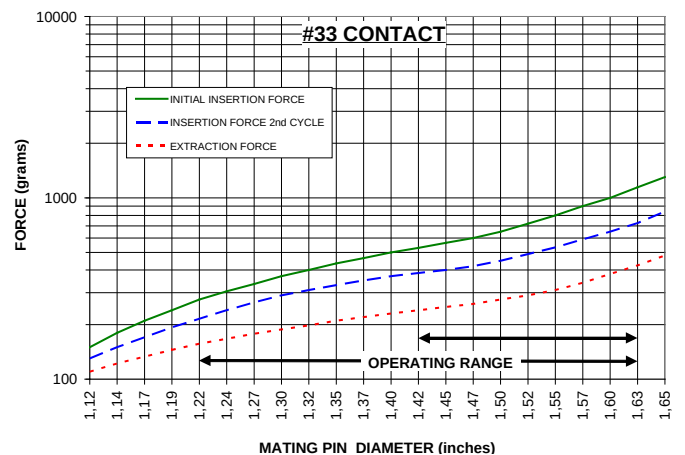


#33 CONTACT

FOR 1,22 - 1,63 DIAMETER PINS ($\delta = 0,20$)
4-FINGER, GROUP G (See page 248)



CONTACT MATERIAL
BERYLLIUM NICKEL
Alloy 360,
Heat Treated



The insertion / extraction force characteristics above were derived using a 0,76 micrometers gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.



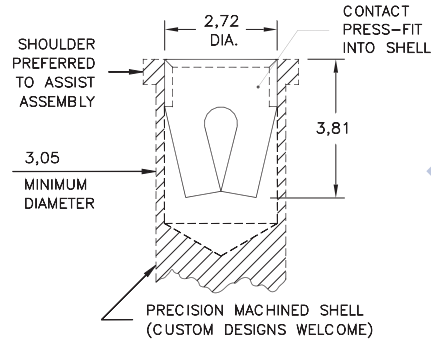
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CONTACT DATA

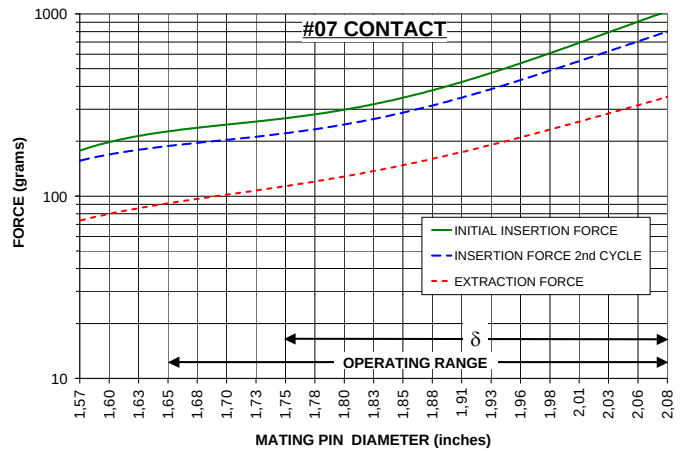
INSERTION / EXTRACTION FORCE GRAPHS

#07 CONTACT

FOR 1,65 - 2,08 DIAMETER PINS ($\delta = 0,33$)
4-FINGER, GROUP H (See page 248)

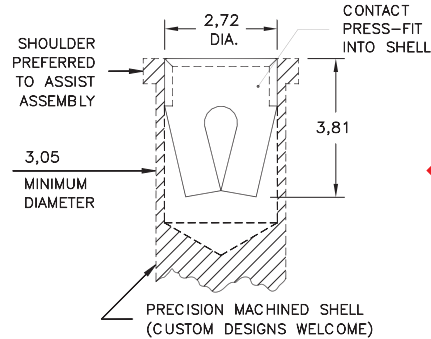


CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated

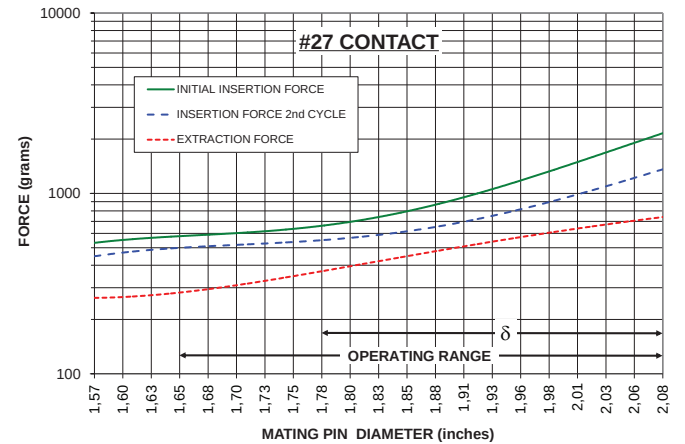


#27 CONTACT

FOR 1,65 - 2,08 DIAMETER PINS ($\delta = 0,30$)
4-FINGER, GROUP H (See page 248)

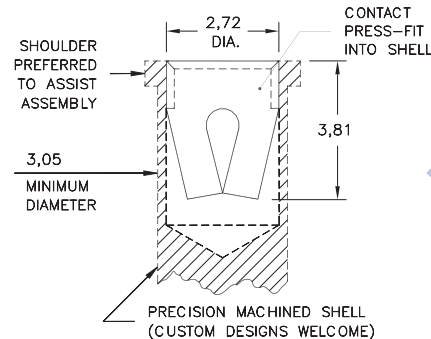


CONTACT MATERIAL
BERYLLIUM NICKEL
Alloy 360,
Heat Treated

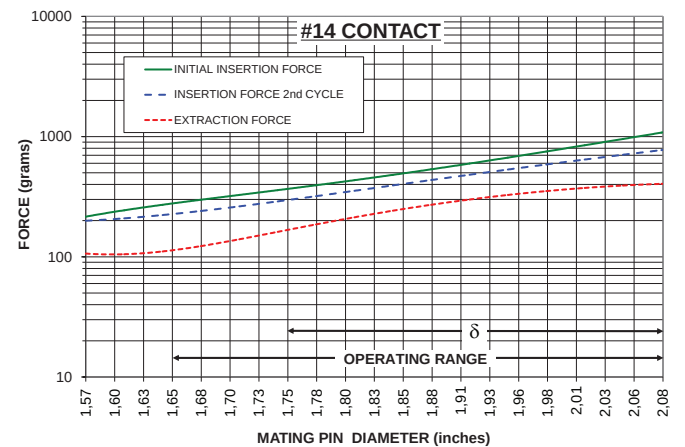


#14 CONTACT

FOR 1,65 - 2,08 DIAMETER PINS ($\delta = 0,36$)
4-FINGER, GROUP H (See page 248)



CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated



The insertion / extraction force characteristics above were derived using a 0,76 micrometers gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.



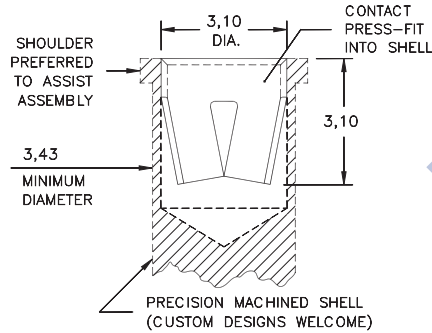
CONTACT DATA

INSERTION / EXTRACTION FORCE GRAPHS

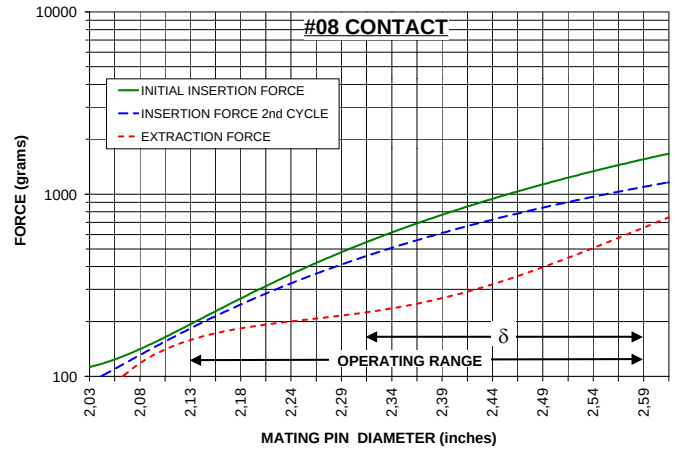
#08 CONTACT

FOR 2,13 - 2,59 DIAMETER PINS ($\delta = 0,28$)
6-FINGER

(See page 248)



CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated



The insertion / extraction force characteristics above were derived using a 0,76 micrometers gold-plated contact and polished steel gauge pins having a bullet-shaped tip.

The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.



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PROPERTIES OF METALS USED BY MILL-MAX

Copper alloy rod and wire for precision-machined pins, receptacles & solder terminals (**RoHS-2 directive 2011/65/EU, exemption 6c**) allows up to 4% lead as an alloy agent in copper. All Mill-Max pin materials are:

BRASS ALLOY 360 per ASTM B 16

PHOSPHOR BRONZE Alloy 544 (UNS C54400) per ASTM B 139

TELLURIUM COPPER Alloy 145 (UNS C14500) per ASTM B 301

Spring alloy strip for stamping "multi-finger" spring contacts

BERYLLIUM COPPER Alloy 172 (UNS C17200) per ASTM B 194

BERYLLIUM NICKEL Alloy 360 (UNS N03360)

Properties of BRASS:

Stock diameters available: 1,57/1,83/1,98/2,36/3,18/3,96/4,75/6,35mm

Chemical composition: Cu 61.5%, Zn 35.4%, Pb 3.1%

Temper as machined: H02/H04

Modulus of elasticity: 14 MPsi

Tensile strength: 70-90 KSI

Hardness as machined: 80-90 Rockwell B

After machining, brass parts are often annealed (softened) for subsequent bending, swaging or crimping. A partial anneal down to 60±10 RB is recommended for 90° bends, a full anneal down to 35±15 RB is recommended for pins or terminals that are swaged (riveted) to a circuit board or crimped to a wire.

Density: .307 lbs/in³

Electrical conductivity: 26% IACS *

Melting point: 900°C/885°C (liquidus/solidus)

Properties of PHOSPHOR BRONZE:

Used for pins requiring more durability than brass.

Stock diameters available: 1,83/1,98mm

Chemical composition: Cu 88%, Sn 4%, Zn 4%, Pb 4%

Temper as machined: H04

Modulus of elasticity: 15 MPsi

Tensile strength: 70-80 KSI

Hardness as machined: 83 Rockwell B

Density: .321 lbs/in³

Electrical conductivity: 19% IACS *

Melting point: 1000°C/930°C (liquidus/solidus)

Properties of TELLURIUM COPPER:

Used for pins requiring a higher current carrying capacity than brass or phosphor bronze.

Stock diameters available: 2,01/2,36/3,18/3,96mm

Chemical composition: Cu 99.44%, Te .55%, P .008%

Temper as machined: H02

Modulus of elasticity: 17 MPsi

Tensile strength: 43 KSI

Hardness as machined: 43 Rockwell B

Density: .323 lbs/in³

Electrical conductivity: 93% IACS *

Thermal conductivity: 91% IACS *

Melting point: 1075°C/1051°C (liquidus/solidus)

Properties of BERYLLIUM COPPER:

Chemical composition: Cu 98.1%, Be 1.9%

Temper as stamped: TD01

Properties after heat treatment (TH01):

Modulus of Elasticity: 19 MPsi

Tensile Strength: 175-205 KSI

Yield Strength (0.2% offset): 150-185 KSI

Elongation: 3-10%

Stress Relaxation†: 96% of stress remains after 1,000 hours @ 100 °C

70% of stress remains after 1,000 hours @ 200 °C

Hardness: 36-43 Rockwell C

Density: .298 lbs/in³

Electrical Conductivity: 22% IACS *

Melting point: 980°C/865°C (liquidus/solidus)

Since BeCu loses its spring properties over time at high temperatures, it is rated for continuous use up to 150°C. For "down-hole" and "burn-in" applications up to 300°C. Mill-Max offers nine contacts (#19, #24, #25, #26, #27, #33, #38, #56, #58) made from Beryllium Nickel Alloy 360 (UNS N03360)

Properties of BERYLLIUM NICKEL:

Chemical composition: Ni 97.6%, Be 1.9%, Ti 0.5%

Modulus of Elasticity: 27-30 MPsi

Tensile Strength: 245 KSI min.

Yield Strength (0.2% offset): 200 KSI min.

Elongation: 9% min.

Hardness: 49 Rockwell C

Density: .294 lbs/in³

Electrical Conductivity: 7% IACS *

Melting point: 1,325°C/1,195°C (liquidus/solidus)

* International Annealed Copper Standard, i.e.: as a % of pure copper.

PROPERTIES OF PLASTICS USED BY MILL-MAX

Standard plastics used for catalog products:

Injection Molded

PCT Polyester, High Temp (Thermx CG933, black)

Nylon46, High Temp (Stanyl TE250F6 {30% glass} or TE250F9 {45% glass}, black)

PPS, High Temp (Ryton R-4-200)

Machined

FR-4 Epoxy/Glass Laminate. In stock thicknesses available: 0,25, 0,51, 0,79, 1,19, 1,57, 2,36, 3,18mm (natural color, beige). Other thicknesses available upon request.

G-30 Polyimide/Glass Laminate, 1,57mm thick (natural color, brown)

TEMPERATURE COMPARISON OF MOLDED INSULATORS

MATERIAL	BRAND	GRADE	HEAT DEFLECTION TEMP. (per ASTM D 648)
PCT Polyester	Thermx	CG-933	529°F (276°C) @ 66 psi
Nylon 46	Stanyl	TE250-F6 or F9	554°F (290°C) @ 264 psi
PPS	Ryton	R-4-200	>500°F (>260°C) @ 264 psi

Note: Materials with HDT above 446°F (230°C) are considered suitable for "eutectic" reflow soldering. For "lead-free" reflow soldering, choose materials with an HDT above 500°F (260°C).

PCT is the standard plastic used with RoHS "lead-free" plated pins.

MILL-MAX STANDARD PLATINGS (FINISHES):

GOLD per ASTM B 488, Type 1 (99.7% min. gold), Code C (130-200 HK {Knoop hardness}), Class (thickness) per customer's requirements

SILVER per ASTM B 700, Type 1 (99.9% min. silver), Grade B (Bright), Class S (anti-tarnish treatment), Thickness (7,5µm used for solder terminals)

TIN/LEAD (93/7) per ASTM B 545 (Appendix X6.3.2.5 to eliminate whisker growth) Class A (2,5µm) or Class B (5µm), Bright finish (Matte available to order)

ELECTRO-SOLDER (60/40) per ASTM B 579, SC2 (8µm), Bright finish (Matte available to order)

Standard finishes available for RoHS "lead-free" applications:

GOLD per ASTM B 488, Type 1 (99.7% min. gold), Code C (130-200 HK {Knoop hardness}), Class (thickness) per customer's requirements

TIN (100%) per ASTM B 545, Class A (2,5µm) or Class B (5µm), Matte finish (With whisker and oxide inhibitors & a nickel underplate)

ALL MILL-MAX PARTS REQUIRE AN UNDERPLATE:

Brass parts need a barrier plate to prevent zinc diffusion, 1,27µm min. nickel or 2,54µm min. copper is recommended by ASTM B 545 and 579. ASTM B 488 also recommends a 1,27µm min. nickel barrier plate beneath gold to prevent copper diffusion inherent with all copper alloy products.

MILL-MAX STANDARD UNDERPLATES:

NICKEL per ASTM B 689, Type 2 (Bright), Class 1.25 (1,25µm) or Class 2.5 (2,5µm)

Also available for military and "non-magnetic" applications:

COPPER per ASTM B 734, Class 2.5 (2,5µm) or Class 5 (5µm)



Pins & Receptacles

Pin & receptacle shells are manufactured by precision high-speed turning machines. The base materials for these components are copper alloys.

Receptacles are a two piece construction consisting of a plated contact press-fit into a plated shell. The contacts are stamped from beryllium copper strip.

Materials

Pins & Receptacle Shells:

Brass Alloy 360 UNS C36000 ASTM-B16

(Up to a 6,35mm diameter)

Phosphor Bronze alloy 544 UNS C54400 ASTM-B139

(Up to a 1,83mm diameter)

Tellurium Copper alloy 145 UNS C14500 ASTM-B301

(Up to a 3,96mm diameters)

See page 154 and 203 for a complete list of standard available stock diameters.

(For the availability of larger diameter materials contact Technical Services).

Contacts:

Beryllium copper UNS C17200 ASTM-B194 (For most applications)

Beryllium Nickel UNS N03360 (For high temperature applications)

(For individual contact specifications see pages 250 - 262)
The materials listed above are all RoHS compliant.

Dimensional, Mechanical & Environmental Data

Standard tolerances for pins & receptacle shells:

Diameters +/- 0,051mm

Lengths +/- 0,13mm

Angles +/- 2°

Mechanical Life (Durability): Mill-Max receptacles are capable of 1,000 minimum insertion/extraction cycles for a broad range of applications. Mating pin size, shape and finish, along with application specific variables, will affect the life of a contact.

Contact Forces: See individual contact specifications on pages 250 - 262.

Environmental Data:

- Operating temperature range: -55/+125° C
- Vibration (No electrical discontinuity Greater than 1 µs): 10-2000 HZ, 15 G
- Shock (No electrical discontinuity Greater than 1 µs): 50 G

Electrical data is dependent on the contact used in the receptacle. See page 248 for free air current ratings of the contacts.

Platings

GOLD per ASTM B 488 and MIL-G-45204, Type 1, Code C

SILVER per ASTM B 700, Grade B, Class S

TIN per ASTM B 545, Type 1

TIN/LEAD (93/7) per ASTM B 545

ELECTRO-SOLDER (60/40) per ASTM B 579, Bright

NICKEL per SAE-AMS-QQ-N-290

ELECTROLESS NICKEL per MIL-C-26074

COPPER per SAE-AMS-2418

Connectors

Connectors are headers, sockets and interconnects. They consist of pins, receptacles or spring pins assembled into thermoplastics or machined laminate insulator bodies. They are available in DIP, SIP, strip, BGA and PGA packages in grids of 1mm, 1,27mm, 1,78mm, 2mm, 2,54mm, .8mm for BGA's and 2,54mm interstitial for PGA's.

Electrical Data

SERIES:	100-700	80X	830	850
• Rated current (Amps):	3	3	3	1
• Rated voltage:	100 VRMS/150 VDC			
• Contact resistance:	10 mΩ max.			
• Insulation resistance:	10,000 MΩ min.			
• Dielectric strength:	1000 VRMS min. (700 VRMS min. for series 117 Shrink DIP)			
• Air and creepage distance (mm):	0,71	0,84/0,71	0,51	0,41/0,51
	(0,30 for series 117 Shrink DIP)			
• Capacitance(pF max):	.8	1	1	1

Electrical data above does not apply to BGA, PLCC, USB or spring-loaded connectors. Electrical data for these products can be found on the following pages: BGA – Page 141; PLCC - Page 141; USB - Pages 147 - 150; Spring-Loaded connectors – Pages 6 - 19

Current ratings are for a 10° C temperature rise above ambient

Operating temperature range: -55/+125° C

General tolerances for assembled connector products:

- Lengths: +/- 0,25mm
- Connector Flatness: 0,13mm (up to 25,4mm in length)
- Co-planarity of SMT Connectors: 0,13mm (up to 25,4mm in length)
- For connectors exceeding 25,4mm in length the flatness/co-planarity may exceed 0,13mm. Please contact Technical Services for more information.

(Note: Specifications and tolerances are provided wherever possible. Due to the wide variety of connectors Mill-Max offers, the specific tolerances vary from product to product. If you need information regarding the tolerance of a particular part, please contact Technical Services.)



Materials

Insulator Bodies:

Standard material is glass filled thermoplastic polyester (PCT), self extinguishing, rated UL 94 V-0.

Some surface mount, pin grid array, spring pin and shrouded connector insulators are molded from high temperature Nylon 46 or PPS, rated UL 94 V-0.

FR-4 epoxy laminate is a thermoset material used in custom insulators and high temperature applications. It is especially useful because of its low Temperature Coefficient of Expansion (TCE). See chart below:

TCE for molded insulator	30 ppm/° C
TCE for 4-Layer PCB	13 ppm/° C
TCE for unclad epoxy	12 ppm/° C

The above insulator materials are all suitable for lead free soldering processes up to 260° C.

For complete material properties of plastics used by Mill-Max see page 263.

For inquiries regarding other insulator materials, please contact Technical Services.

Spring Pins

Spring pins consist of precision-machined brass components assembled together with beryllium copper or stainless steel springs. External components and internal springs are gold-plated. Spring pins are designed to be used at mid-stroke. Over compression can cause damage restricting the movement of the plunger.

Materials

External Components (Body, Piston, Base, Tail):

Brass Alloy 360 UNS C36000 ASTM-B16

Springs

Beryllium copper UNS C17200 ASTM-B197

Stainless Steel 302

Dimensional, Mechanical & Environmental Data

Standard tolerances for spring pins at initial height:

Diameters +/- 0,051mm

Lengths +/- 0,15mm

Mechanical life (durability): Tested to 1,000,000 cycles

Force tolerance: +/- 20 g (See individual spring pin data on pages 6 - 19 for forces)

Stroke tolerance: +/- 0,13mm

Environmental Data:

- Operating temperature range: -55/+125° C
- Vibration (No electrical discontinuity Greater than 1 µs): 0-200 HZ, 10 G
- Shock (No electrical discontinuity Greater than 1 µs): 50 G

For complete material properties of metals, platings and plastics used by Mill-Max see page 263.

Where applicable, Mill-Max products and procedures are designed to meet the following standards:

- MIL-STD 1916** - DOD preferred methods for acceptance of product
- MIL-STD 202G** - Test methods for electronic and electrical component parts
- MIL-STD 45662** - Calibration system requirements, or ISO 10012
- MIL-F-14072** - Finishes for ground based electronic equipment
- MIL-I-45208** - Inspection system requirements or equivalent
- MIL-S-83505** - General specification for sockets (lead, electronic components)
- MIL-DTL-83734** - General specification for DIP sockets

In the interest of improved design, quality and performance, Mill-Max reserves the right to make changes in its specifications without prior notice.



Annealing - Refers to a brass pin that has been softened by heat treatment which makes the pin easier to crimp, rivet (swage) or bend.

Carrier - An assembly consisting of an insulator with male pins onto which receptacles are loaded. This assembly is employed as a fixture during the soldering operation and is then removed leaving a PC board populated with individual receptacles. Female carriers that load male pins are also available for special applications.

Clip - See Contact.

Closed Entry - Refers to female contacts where the front rim prevents the insertion of an oversize pin that would otherwise damage the contact.

Compliance - Contact's ability to accept multiple insertions and extractions of a wide range of pin shapes and sizes while retaining its original configuration.

Compliant Press Fit - Method of mounting an interconnect component to a PC board where a drilled and slotted receptacle or pin is pressed into a plated-through-hole without damaging the hole.

Constant Usage Temperature (CUT) - Constant Usage Temperature is a measure of the maximum temperature that a material may be exposed to for long periods of time, 1000 - 1500 hrs., before degradation of its electrical and mechanical properties occurs.

Contact (and Contact Clip) - Multi-finger spring insert of a receptacle which completes the electrical path between a male pin and a female receptacle. Also referred to as a clip.

Contact Rating - Current carrying capability of a contact measured in amperes with respect to temperature rise above ambient.

Contact Resistance - The electrical resistance at the point of connection determined by the contact geometry, area of contact, plating and normal force.

Coplanarity - Refers to the measurement of multiple points and their distance from a respective plane. This is particularly useful for surface mount parts to determine the maximum amount of difference in the height of the surfaces that need to be soldered.

Electroplating - The electrodeposition of a metal coating on a conductive object such as a pin, shell, or contact clip.

Electro-vibratory Plating - An electroplating system where the parts are processed in a vibrating basket which ensures uniform plating thickness and avoids damage to delicate parts.

End Stackable - The ability for connectors to be mounted end to end while maintaining grid or spacing.

Extraction Force (or Withdrawal Force) - The force required to remove a lead from a contact.

Epoxy - Woven glass cloth epoxy laminate. Classified as a thermoset, the woven fibers of these materials enable them to withstand high temperatures without being damaged. Cut from large sheets of material, the insulator is then machined on a high speed drill/router the same way as printed circuit boards are fabricated.

Electrostatic Discharge (ESD) - The momentary electric current that flows between two objects that may cause damage to electronic equipment.

Flash (Plating) - A very thin plating of metal, usually less than 0,25 micro meters, to uniformly cover the surface of the base metal.

Flatness - Sometimes used in place of coplanarity, flatness refers to the amount of variation of a plane or surface.

Floating Contact - In surface mount sockets, a receptacle designed to move up and down freely in an insulator to compensate for unevenly dispensed solder paste.

Free Machining Alloy - An alloy which is easy to machine, e.g. brass alloy 360.

Fretting - A form of corrosion caused by vibration.

Gas Tight Connection - An electrical connection of sufficient pressure to prevent the intrusion of a corrosive atmosphere into the contact area.

Heat Deflection Temperature (HDT) - An industry recognized test for comparing the short term effects of high temperature on plastics.

Heat Treating - The process of using specific heating and cooling cycles to alter the mechanical properties of an alloy. Generally, heat treating can harden or soften a metal depending on the material, the parameters used and the desired physical property.

Hex Press Fit - A method of press-fitting either a pin or receptacle, using a hexagonal cross section, into a plated through-hole without causing damage to the hole while still maintaining a gas tight seal.

High Speed Turning - See Precision-Machined.

Injection Molding - A method of molding plastics by first heating granular plastic to its molten state and injecting it into the mold cavity where the plastic solidifies and is then ejected from the cavity.

Insertion Force - The force required to insert a male lead into a female socket.

Knurl - A vertical serration machined around the diameter of an interconnect pin providing a retention feature for press-fitting in a PC board or insulator and also preventing rotation of the pin.

LCP (Liquid Crystal Polymer) - Classified as a thermoplastic, LCP is a hard, rigid material which exhibits outstanding strength at high temperatures and exceptional strength and toughness in its thin walls. Applications: LCP is used as an insulator material for tight grid (1,27, 2mm) connectors and extremely high temperature requirements.

Mating Pin - The pin used to interconnect two electronic devices by inserting it into the contact. Critical features are diameter, length, and shape (but not limited to.)

Machined - See Precision-Machined.

Migration - For a brass part plated with tin or gold, the migration of zinc from brass to the surface of the plating. This becomes zinc oxide and renders the part unsolderable. Zinc migration is prevented by using a copper or nickel underplate as a barrier.

Nylon 46 - Classified as thermoplastics. Nylon 46 offers superior heat resistance, good electrical properties and excellent toughness in its thin walls, which are desirable characteristics for connector insulators. Its superior strength in thin walls enables the press-fitting of pins in close proximity to each other without cracking or warping the material, making it ideal for molding 2mm and 1,27mm grid insulators. Nylon 46 is suitable for high temperature applications including vapor phase, infra-red reflow and wave soldering operations.

Passive Device or Component - An electronic connector that consumes electrical energy, but does not produce electrical energy. Passive devices are not susceptible to significant ESD damage.

PCB - Printed Circuit Board.

PCT (Polycyclohexane Terephthalate) - Thermoplastic polyester is rated for higher temperatures. PCT is a standard material on DIP and SIP insulators for higher temperature operations. All PGA and surface mount products are molded from PCT and are suitable for infra-red, vapor phase and wave soldering.

Plating - A process in which metals (e.g. gold, tin-lead, nickel, silver) are electrically deposited onto a base metal in very thin and precise thicknesses.

Plated Through-Hole - A hole in a printed circuit board which has metallic walls connected to conductors on the surface or inside the board, in which the component lead is inserted and soldered.

Precision-Machined - Manufacturing process whereby a rapidly turning solid metal rod is cut to precise tolerances.

Receptacle - Female contact consisting of an outer shell & inner spring contact (clip) designed for multiple mating/unmating cycles with a male pin or component lead.

Screw-Machined - See Precision-Machined.

Secondary Machining - A process in which holes, slots, flats, squares or other special features may be machined onto a pin or receptacle after the basic shape of the part has been turned on a high speed lathe.

Shrink DIP Package - An IC which has a pin spacing of 1,78mm on centers.

Skiving - The removal of a thin amount of plating when pins or contacts are press fit. For example, soft platings may yield some amount of skiving upon press fitting into an insulator or board. Skiving may also appear under a contact clip pressed into a receptacle shell.

Standoff - A protrusion at the bottom of the connector used to raise it off the PC board to aid in solder fillet formation, board inspection, flux removal and cleaning.

Swage Mount - A type of mounting commonly used with solder terminals and printed circuit pins where one end of the terminal is flared out (riveted) securing it to the PCB.

Thermal Coefficient of Expansion (TCE) - Expansion of material caused by an increase in temperature.

Thermoset - Type of plastic which is heat cured into a permanent shape and, due to chemical reaction, cannot be remelted.

Thermoplastics - Type of plastic which is molded under heat and pressure and can be remelted & reused many times.

Top Plate - Final surface plating over base metal and underplating.

Underplate - Plating between the base metal and the top plating.

Withdrawal Force (or Extraction Force) - The force required to remove a lead from a contact.

Wrapost (Terminal or Receptacle) - The length of square cross section of certain pins and receptacles which is used for making electrical connections via wire wrapping. Wire wrapping is a process in which wire is wrapped around the post to form a gas-tight connection without soldering.

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NUMERICAL LISTING AND LOCATION OF MILL-MAX SOCKET ASSEMBLY NUMBERS WITH REFERENCE TO MILL-MAX PINS

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104-XX-XXX-41-770000	0477	96	162-XX-XXX-00-001000	1106-2	117
104-XX-XXX-41-780000	0478	96	162-XX-XXX-00-180000	6218	127
110-XX-210-10-001000	1001	134	162-XX-XXX-30-180000	6218	128
110-XX-210-10-002000	1001	135	163-XX-XXX-00-001000	1106-3	117
110-XX-3XX-10-001000	1001	134	170-XX-XXX-00-001000	0700	118
110-XX-3XX-10-002000	1001	135	173-XX-XXX-00-001000	0730-3	118
110-XX-3XX-10-003000	1001	135	180-XX-XXX-00-001000	8000	119
110-XX-3XX-10-004000	1001	135	182-XX-XXX-00-001000	8301-2	119
110-XX-3XX-10-005000	1001	135	183-XX-XXX-00-001000	8301-3	119
110-XX-XXX-41-001000	1001	90	210-XX-XXX-41-001000	1001	99
110-XX-XXX-41-105000	1005	104	210-XX-XXX-41-101000	1001	101
110-XX-XXX-41-530000	1001	100	210-XX-XXX-41-105000	1005	105
110-XX-XXX-41-605000	1005	94	210-XX-XXX-41-105799	1005	105
110-XX-XXX-41-801000	1001	98	214-XX-XXX-01-670799	1434	108
111-XX-XXX-41-001000	0134	91	214-XX-XXX-01-670800	1434	108
113-XX-XXX-41-117000	1334/1434	107	217-XX-764-41-005000	1802	125
114-XX-XXX-41-117000	1434	106	222-XX-XXX-41-001000	0089-2	99
115-XX-XXX-41-001000	0501	92	223-XX-XXX-41-001000	0088-3	99
115-XX-XXX-41-003000	1534	93	223-XX-XXX-41-101000	0038-3	102
116-XX-XXX-41-001000	0153-5	111	227-XX-764-41-002000	1702-2	125
116-XX-XXX-41-003000	0153-2	111	227-XX-764-41-003000	1703-3	125
116-XX-XXX-41-006000	0153-1	111	296-XX-010-30-691800	4077/4078	133
116-XX-XXX-41-007000	0153-3	111	296-XX-010-30-692800	4077/4078	133
116-XX-XXX-41-008000	0153-4	111	299-XX-XXX-10-001000	1103/0903	129
117-XX-XXX-41-005000	1802	125	299-XX-XXX-10-002000	1103/0904	129
117-XX-XXX-41-105000	1802	126	299-XX-XXX-11-001000	1103/1610	129
121-XX-XXX-41-001000	0040-1	109	299-XX-210-12-001800	1002-X	133
122-XX-XXX-41-001000	0089-2	109	301-43-1XX-41-560000	0156/1001	46
122-XX-XXX-41-801000	0089-2	98	304-XX-1XX-41-770000	0477	73
123-XX-XXX-41-001000	0088-3	109	304-XX-1XX-41-780000	0478	73
123-XX-XXX-41-801000	0088-3	98	310-XX-1XX-40-023000	1023	50
124-XX-XXX-41-002000	0086-4	109	310-XX-1XX-41-001000	1001	46,65
126-XX-XXX-41-001000	2601	110	310-XX-1XX-41-105000	1005	51
126-XX-XXX-41-002000	2602	110	310-XX-1XX-41-107000	1005	51
126-XX-XXX-41-003000	2603	110	311-XX-1XX-41-001000	0134	65
127-XX-XXX-41-002000	1702-2	125	315-XX-1XX-41-001000	0501	65
127-XX-XXX-41-003000	1703-3	125	315-XX-1XX-41-003000	1534	65
134-10-XXX-00-000000	3400	122	316-XX-1XX-41-001000	0153-5	67
134-10-XXX-00-010000	3401	122	316-XX-1XX-41-003000	0153-2	67
134-10-XXX-00-020000	3402	122	316-XX-1XX-41-006000	0153-1	67
134-10-XXX-00-050000	3405	122	316-XX-1XX-41-007000	0153-3	67
134-10-XXX-00-100000	3410	122	316-XX-1XX-41-008000	0153-4	67
142-XX-XXX-00-591000	4259-1	123	317-XX-121-41-005000	1802	125
142-XX-XXX-00-592000	4259-2	123	317-XX-121-41-105000	1802	126
142-XX-XXX-00-593000	4259-3	123	319-10-1XX-00-001000	1942	20
142-XX-XXX-00-594000	4259-4	123	319-10-1XX-00-002000	1940	20
146-XX-XXX-41-012000	4612	97	319-10-1XX-00-005000	1938	20
146-XX-XXX-41-013000	4613	97	319-10-1XX-30-041000	1941	20
150-XX-XXX-00-001000	0290	116	321-13-1XX-41-001000	0040-1	69
150-10-XXX-00-106000	3404	124	322-XX-1XX-41-001000	0089-2	69
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151-10-XXX-00-004000	5504	120	324-XX-1XX-41-002000	0086-4	69
151-10-XXX-00-005000	5505	120	326-XX-1XX-41-001000	2601	71
151-10-XXX-00-009000	5509	121	326-XX-1XX-41-002000	2602	71
151-10-XXX-00-010000	5510	121	326-XX-1XX-41-003000	2603	71
151-10-XXX-00-011000	5511	121	327-XX-121-41-002000	1702-2	125
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329-10-1XX-00-560000	2956-1	49	416-XX-2XX-41-007000	0153-3	68
330-10-1XX-00-240000	3024	20	416-XX-2XX-41-008000	0153-4	68
334-XX-1XX-00-000000	3400	81	419-10-2XX-00-001000	1942	21
334-XX-1XX-00-010000	3401	81	419-10-2XX-00-002000	1940	21
334-XX-1XX-00-020000	3402	81	419-10-2XX-00-005000	1938	21
334-XX-1XX-00-050000	3405	81	419-10-2XX-30-041000	1941	21
334-XX-1XX-00-100000	3410	81	421-XX-2XX-41-001000	0040-1	70
335-XX-1XX-00-160000	3516	78	422-XX-2XX-41-001000	0089-2	70
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342-XX-1XX-00-591000	4259-1	82	424-XX-2XX-41-002000	0086-4	70
342-XX-1XX-00-592000	4259-2	82	426-XX-2XX-41-001000	2601	72
342-XX-1XX-00-593000	4259-3	82	426-XX-2XX-41-002000	2602	72
342-XX-1XX-00-594000	4259-4	82	426-XX-2XX-41-003000	2603	72
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346-XX-1XX-41-013000	4613	73	429-10-2XX-00-560000	2956-0	49
349-10-1XX-00-560000	4956-1	59	430-10-2XX-00-240000	3024	21
350-XX-1XX-00-001000	0290	52,84	435-XX-2XX-00-160000	3516	78
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350-XX-1XX-00-106000	3404	51	442-XX-2XX-00-592000	4259-2	83
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351-10-1XX-00-004000	5504	79	446-XX-2XX-41-012000	4612	74
351-10-1XX-00-005000	5505	79	446-XX-2XX-41-013000	4613	74
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351-10-1XX-00-011000	5511	79	450-XX-2XX-00-006000	3404	47
351-10-1XX-40-002000	5102	50	450-XX-2XX-00-106000	3404	51
353-XX-1XX-00-001000	5301	86	451-10-2XX-00-003000	5503	80
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362-XX-1XX-00-001000	1106-2	86	451-10-2XX-00-005000	5505	80
363-XX-1XX-00-001000	1106-3	86	451-10-2XX-00-009000	5509	80
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370-XX-1XX-00-001000	0700	84	451-10-2XX-00-011000	5511	80
373-XX-1XX-00-001000	0730-3	86	453-10-2XX-00-001000	5301	87
380-XX-1XX-00-001000	8000	48,84	460-XX-2XX-00-001000	0282	85
382-XX-1XX-00-001000	8301-2	86	463-XX-2XX-00-001000	1106-3	87
383-XX-1XX-00-001000	8301-3	86	464-10-2XX-00-580000	6458	78
388-XX-102-11-740799	8874	152	470-XX-2XX-00-001000	0700	85
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395-XX-101-03-380000	8433	151	480-10-2XX-00-001000	8000	48,85
395-XX-101-07-350000	8994	151	483-XX-2XX-00-001000	8301-3	87
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399-XX-1XX-10-009000	5011	46	507-10-XXX-XX-XXX437	0737	140
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551-XX-XXX-XX-XXX004	5504	140	802-XX-0XX-10-002000	5016	53
551-XX-XXX-XX-XXX005	5505	140	802-XX-XXX-10-004000	3077	62
579-10-XXX-XX-XXX429	7929	142	802-XX-0XX-10-007000	1107	61
582-11-XXX-XX-XXX414	8214	142	802-10-0XX-10-052000	5016	58
587-10-XXX-XX-XXX437	8737	142	802-XX-0XX-20-001000	5005/5107	55
594-XX-020-01-007032	8857-X	133	802-10-0XX-30-001000	7007	59
599-11-XXX-XX-XXX428	9928	142	802-10-0XX-30-052000	5016	58
599-10-XXX-XX-XXX429	9929	142	802-XX-0XX-61-001000	5601	57
599-11-XXX-XX-XXX442	9942	142	802-10-0XX-61-051000	5607	58
599-XX-XXX-XX-XXX476	9976	140	802-XX-0XX-62-001000	5602	57
605-XX-XXX-11-480000	0548	114	803-XX-XXX-10-001000	1304	55
605-XX-XXX-XX-XXX048	0548	139	803-XX-0XX-10-002000	1303	53
612-XX-XXX-41-001000	0255	112	803-XX-0XX-10-003000	1303	52
612-XX-XXX-41-002000	8855	112	803-XX-XXX-10-004000	1313	62
612-XX-XXX-41-003000	0135	112	803-13-0XX-10-007000	1134	61
612-XX-XXX-41-004000	0132	112	803-XX-XXX-20-001000	1305/1306	55
614-XX-XXX-31-002000	0442	115	803-XX-XXX-30-001000	1304	59
614-XX-XXX-31-007000	1407	114	803-XX-XXX-61-001000	4614	57
614-XX-XXX-31-012000	0552-1	115	803-XX-XXX-62-001000	4615	57
614-XX-XXX-31-018000	0552-2	115	804-10-0XX-10-002000	5016	60
614-XX-XXX-41-001000	1401	113	805-43-0XX-10-012000	1303	60
614-XX-XXX-XX-XXX007	1407	139	810-22-0XX-40-001101	0916-0	10
614-XX-XXX-XX-XXX012	0552-1	139	811-22-0XX-30-00X101	0900-X	07
614-XX-XXX-XX-XXX0XX	1401	139	811-22-00X-30-00X191	0900-X	12
712-XX-XXX-41-001000	0255	75	812-22-0XX-30-00X101	0907-X	08
714-XX-XXX-31-007000	1407	76	812-22-0XX-30-01X101	0907-X/0908-X	11
714-XX-XXX-31-012000	0552-1	77	812-22-00X-30-00X191	0907-X	12
714-XX-XXX-31-018000	0552-2	77	813-22-0XX-30-00X101	0900-X	07
714-XX-XXX-41-001000	1401	76	813-22-0XX-30-00X191	0900-X	12
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800-XX-0XX-10-002000	5016	53	814-22-0XX-30-01X101	0907-X/0908-X	11
800-XX-0XX-10-004000	3077	62	814-22-0XX-30-00X191	0907-X	12
800-XX-0XX-10-007000	1107	61	815-22-0XX-30-001101	0965	06
800-10-0XX-10-052000	5016	58	816-22-0XX-10-00X101	0908-X	15
800-XX-0XX-20-001000	5005	54	817-22-0XX-30-001101	0965	06
800-10-0XX-20-201000	5005	64	818-22-0XX-10-00X101	0908-X	15
800-10-0XX-30-001000	7007	59	819-22-0XX-30-001101	0913-0	09
800-10-0XX-30-052000	5016	58	820-22-0XX-30-001101	0913-0	09
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800-XX-0XX-61-001000	5601	56	823-22-0XX-10-00X101	0906-X	13
800-10-0XX-61-051000	5607	58	824-22-0XX-00-001000	0933	17
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801-XX-0XX-10-002000	1303	53	827-22-0XX-10-001101	0914	14
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801-43-0XX-10-212000	1303	64	831-XX-0XX-20-001000	1805	45
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834-XX-0XX-10-001000	3435	63			
835-XX-0XX-10-001000	3435	63			
850-XX-0XX-10-001000	4006-0	34			
850-XX-0XX-20-001000	4006-1	36			
850-XX-0XX-30-001000	4006-0	37			
850-XX-0XX-30-002000	4006-0	37			
850-10-0XX-40-001000	4006-1	40			
851-XX-0XX-10-001000	4890-0	34			
851-XX-0XX-10-002000	0467	34			
851-XX-0XX-10-011000	4890-1	35			
851-XX-0XX-10-021000	4890-2	35			
851-XX-0XX-20-001000	4890-1	36			
851-XX-0XX-30-001000	4890-0	37			
851-XX-0XX-30-002000	4890-0	37			
851-XX-0XX-40-001000	4890-1	40			
852-XX-XXX-10-001000	4006-0	34			
852-XX-XXX-20-001000	4006-1/2	36			
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855-22-0XX-30-001101	0951-0	19			
856-10-0XX-10-051000	1933	22			
856-10-0XX-30-051000	1935	22			
857-10-0XX-10-051000	1933	22			
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0040	198	0314	183	0383	201	0555	163	0925	23	1094	225
0066	198	0315	214	0384	197	0556	166	0926	24	1095	226
0067	198	0316	183	0385	170	0558	163	0927	23	1096	228
0068	198	0317	183	0387	192	0560	160	0928	23	1097	226
0086	198	0318	226	0388	194	0566	157	0929	25	1103	166
0088	198	0319	181	0389	194	0569	158	0930	25	1104	168
0089	198	0321	197	0390	194	0574	161	0932	25	1105	190
0132	165	0322	182	0391	192	0577	196	0933	27	1106	228
0133	165	0323	182	0393	192	0579	159	0934	23	1107	218
0134	165	0324	182	0394	192	0600	215	0936	23	1109	165
0135	165	0325	182	0395	193	0613	159	0940	219	1110	225
0136	166	0326	174	0396	174	0616	192	0952	211	1122	228
0137	166	0327	183	0397	173	0660	163	0956	25	1124	225
0138	166	0328	183	0398	173	0664	174	0959	24	1130	210
0139	166	0329	184	0399	177	0665	163	0962	27	1134	177
0141	166	0330	177	0400	179	0666	164	0965	24	1147	159
0145	166	0331	181	0401	180	0667	163	0967	26	1179	207
0146	166	0332	197	0405	182	0668	164	0977	24	1210	225
0147	165	0333	183	0407	175	0669	164	0980	24	1212	226
0148	166	0334	183	0415	175	0670	164	0985	27	1213	226
0149	162	0335	179	0433	188	0671	161	0990	26	1214	226
0152	166	0336	182	0434	188	0672	168	0995	221	1215	225
0153	167	0337	197	0435	188	0673	164	0997	26	1216	226
0156	165	0338	172	0436	188	0675	163	1001	165	1221	225
0240	168	0339	172	0439	156	0676	164	1005	166	1222	225
0252	164	0340	183	0442	157	0677	163	1010	225	1261	167
0253	164	0341	164	0444	199	0678	164	1011	225	1267	210
0255	165	0342	188	0445	199	0679	163	1012	225	1302	226
0257	211	0343	184	0447	166	0680	162	1013	166	1303	180
0259	218	0344	182	0461	158	0682	163	1020	225	1304	177
0265	216	0345	183	0462	160	0697	164	1021	225	1305	179
0270	216	0347	184	0463	160	0700	216	1022	225	1306	179
0272	216	0348	182	0464	156	0703	161	1023	171	1313	181
0273	175	0349	182	0466	160	0707	161	1024	168	1334	171
0275	216	0350	193	0467	158	0730	228	1030	198, 226	1385	170
0279	177	0351	183	0468	161	0739	185	1031	198, 226	1401	170
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0281	200	0354	187	0478	162	0850	28	1033	164	1434	162
0282	216	0355	187	0479	197	0851	28	1034	198	1502	224
0284	175	0356	184	0489	160	0852	28	1035	198	1508	224
0285	175	0357	183	0490	192	0853	28	1036	198	1534	161
0286	218	0358	184	0491	192	0854	28	1038	167	1602	167
0287	175	0359	184	0492	189	0855	28	1040	198	1610	167
0290	215	0360	184	0493	192	0856	28	1045	198	1701	171
0291	175	0362	189	0496	190	0900	23	1047	199	1702	198
0292	173	0363	189	0498	168	0901	25	1052	201	1703	198
0293	175	0364	189	0501	162	0903	167	1053	201	1705	168
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0301	177	0372	189	0529	156	0910	26	1070	228	1782	170
0303	175	0373	183	0542	211	0912	217	1071	228	1801	165
0305	177	0375	197	0548	157	0913	23	1072	228	1802	169
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1807	169	2381	207	2954	171	3152	223	4068	204	5505	214
1808	169	2400	179	2956	218	3153	221	4071	205	5509	214
1873	176	2501	235	3000	218	3154	211	4078	167	5510	212
1933	213	2502	242	3006	208	3155	209	4095	180	5511	212
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1941	218	2507	241	3024	218	3159	222	4259	212	5556	209
1942	218	2508	234	3039	208	3169	212	4268	206	5601	220
2086	158	2510	230	3044	189	3185	170	4280	197	5602	220
2101	231	2511	242	3061	159	3210	210	4286	163	5607	213
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2103	238	2513	230	3100	185	3222	221	4310	170	5660	166
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2105	238	2515	242	3102	221	3230	222	4361	204	5834	190
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2113	229	2551	234	3113	219	3400	215	4613	162	6142	207
2115	244	2561	234	3114	217	3401	215	4614	179	6192	159
2297	200	2601	199	3115	217	3402	215	4615	179	6214	158
2301	232	2602	199	3116	210	3404	212	4622	169	6218	208
2302	241	2603	199	3117	217	3405	215	4689	204	6252	169
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2304	233	2650	205	3119	217	3408	216	4890	160	6458	213
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2306	233	2702	235	3121	208	3410	215	4956	218	6547	205
2307	233	2703	235	3122	221	3411	215	4964	205	6585	212
2308	230	2704	233	3123	221	3413	213	4965	205	6628	181
2309	245	2705	236	3124	221	3435	197	4993	156	6659	184
2310	232	2706	246	3125	221	3450	181	4994	160	6800	185
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2319	246	2801	237	3135	210	3621	219	5102	224	7405	181
2320	239	2802	237	3136	220	3667	190	5107	215	7406	181
2321	246	2803	236	3137	220	3790	209	5113	214	7491	160
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2323	239	2805	237	3139	217	3802	169	5155	209	7553	159
2324	229	2806	237	3140	221	3805	169	5231	224	7614	179
2325	232	2807	243	3141	221	3808	187	5240	205	7827	210
2326	244	2808	243	3142	222	3907	170	5275	225	7937	224
2328	239	2809	243	3144	223	4001	170	5280	197	8000	216
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