



ADAM
TECH
INTERCONNECTS



POWER CONNECTORS

IEC-60320, NEMA & more



FEATURES & BENEFITS

Introduction

Adam Tech IEC & Mini IEC Series AC Inlets and Outlets are primary power receptacles designed, manufactured, tested and approved to UL, CSA and other applicable international specifications including IEC-60320 and CEE-22. Adam Tech offers a wide variety of body styles, shapes and orientations to accommodate most class I & II applications with two or three blade contacts in both IEC and Mini-IEC configurations. Mounting choices include screw holes and snap-in versions and four termination styles.

Options of ganged ports or receptacle with integral fuse holder are also available.

Features and Benefits:

- IEC & Mini-IEC types
- IEC-60320, CEE-22 Compliant
- UL and CSA approved
- Multitude of Body Styles
- Choice of terminations
- Option of Integral Fuse Holder

IEC Styles



IEC Inlet,
Screw On Panel Mount



IEC Inlet,
Snap In Panel Mount



Mini IEC,
Screw On Panel Mount



Female IEC Outlet,
Snap In Panel Mount



Male Inlet,
Fused with Snap In Panel Mount



Mini IEC,
Panel Snap



Female IEC Outlet,
Screw On Panel Mount

NEMA Styles



NEMA-5-1-A
Dedicated Panel Snap,
Solder Hook Style



NEMA-5-2
Dedicated Panel Snap
IDC Style

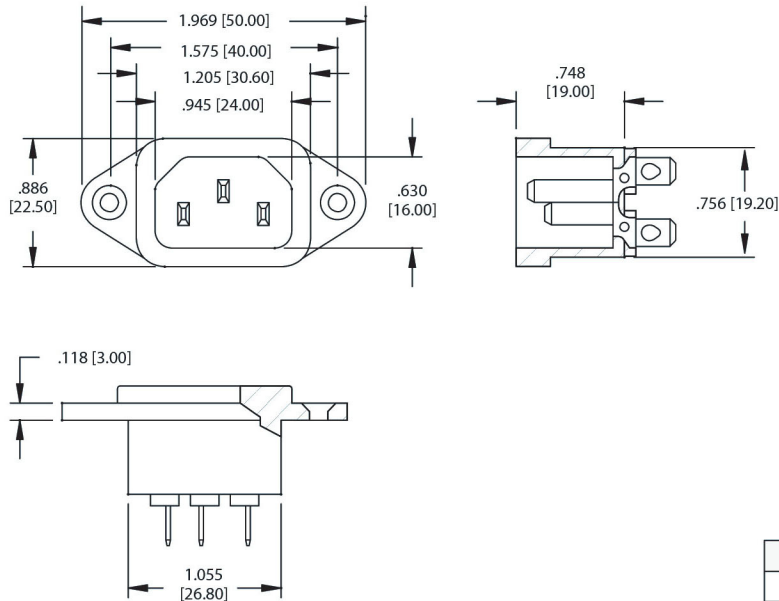


NEMA-5-3
Universal Panel Snap
IDC Style

AC INLETS & OUTLETS

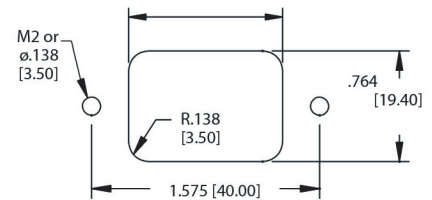
IEC 320 CONNECTORS IEC SERIES

IEC-A SCREW ON PANEL MOUNT



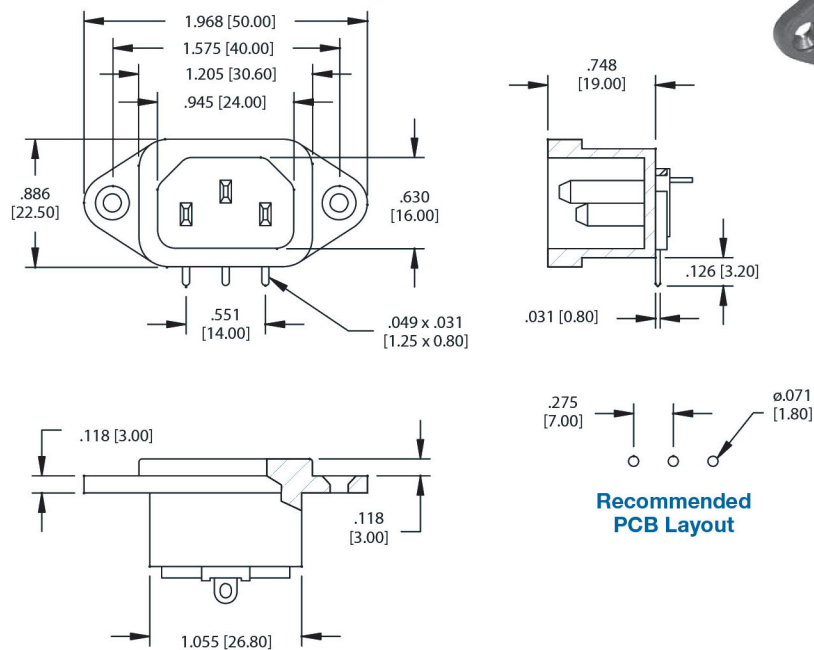
IEC-A-1

1.075 [27.30] Front Mounting
1.212 [30.80] Rear Mounting

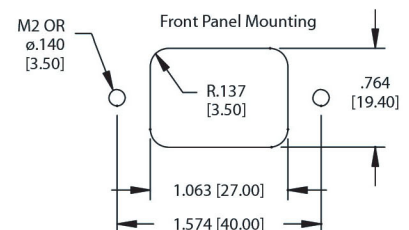
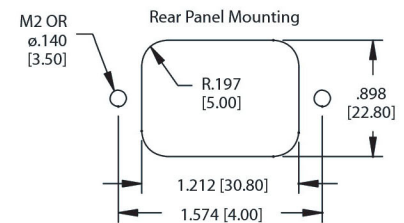


TERMINAL OPTIONS			
1	2	3	5
.187 Q.C.	.250 Q.C.	.157 Solder	.098 Solder

IEC-A SCREW ON PANEL RIGHT ANGLE PCB MOUNT



IEC-A-4



Recommended
PCB Layout

AC INLETS & OUTLETS

IEC 320 & MINI IEC CONNECTORS IEC SERIES

ORDERING INFORMATION

IEC

**SERIES
INDICATOR**
IEC =
International
inlet/outlet

A

BODY STYLE

A = Male Inlet, Screw-on panel mount
B = Female Outlet, Screw-on panel mount
C = Male Inlet, Snap-in panel mount
D = Female Outlet, Snap-in panel mount
E = Male Inlet, Right Angle PC board mount
 with mounting flange (Specify EW, EX, EY or EZ)
F = Male Inlet, Screw on panel mount with 5 x 20mm fuse holder
G = Male Inlet, Snap-in panel mount with 5 x 20mm fuse holder
HS = Inlet/Outlet, snap-in panel mount
HR = Inlet/outlet, snap-in panel mount, right angle PCB mount
J = Male inlet, right angle PCB & tail with snap-in panel mounting
NA = Mini-IEC right angle, snap-in
NB = Mini-IEC right angle, slide-in
NB-A = Mini-IEC right angle, slide-in with pegs
NC = Mini-IEC right angle, with flush flange
NC-A = Mini-IEC right angle, with extended face
ND = Mini-IEC right angle, with enclosed body
NF = Mini-IEC right angle, polarized with flange
NH = Mini-IEC right angle, with ground pin
NH-A = Mini-IEC right angle, flange mount with ground pin
GS = Fused inlet with switch snap in panel mount
FS = Fused inlet with switch screw on panel mount
M = Female outlet, 20 AMP, Flanged
N = Male inlet, 20 AMP, Snap-In

1

TERMINALS

1 = .187" Quick-
connect
terminals
2 = .250" Quick-
connect
terminals
3 = Solder
terminals
 .157" [4.0mm]
4 = Right Angle
PCB mount
5 = Solder
Terminals
 .098" [2.5mm]

PANEL

THICKNESS
(for body styles
C, D & J only)

Blank = Universal
Snap
080 = 0.8mm
Panel
120 = 1.2mm
Panel
150 = 1.5mm
Panel
200 = 2.0mm
Panel
300 = 3.0mm
Panel

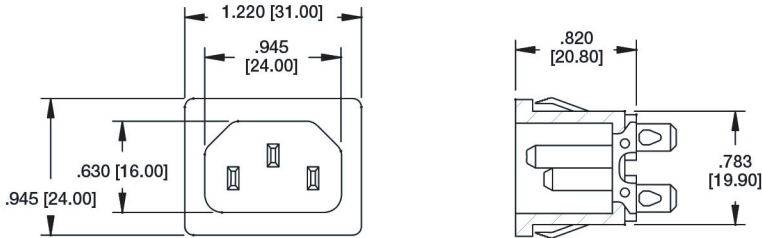
OPTIONS:

K = Keyed for 120° C (Body Styles A, C, E & J)

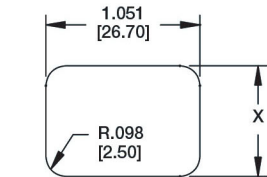
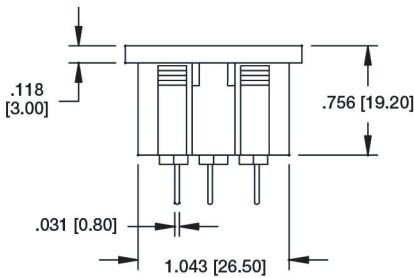
AC INLETS & OUTLETS

IEC 320 CONNECTORS IEC SERIES

IEC-C UNIVERSAL PANEL SNAP



IEC-C-1

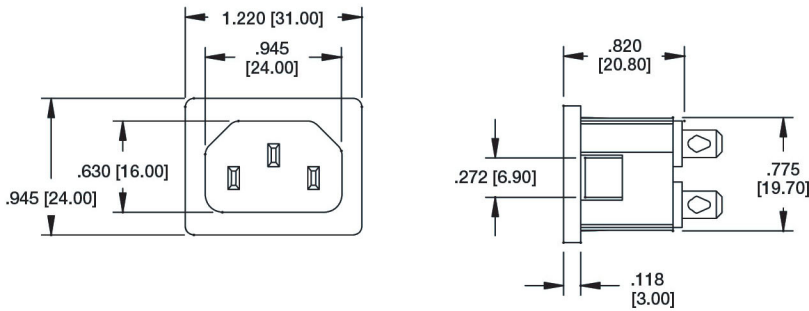


**Recommended Panel
Thickness: 0.8mm - 3.0mm**

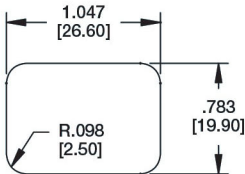
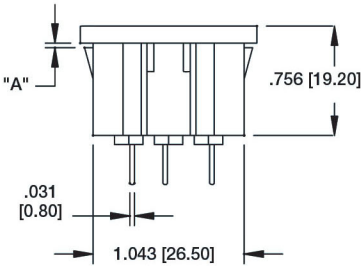
PANEL THICKNESS	DIM X
.031-.039 [0.8-1.0]	.780 [19.8]
.039-.059 [1.0-1.5]	.784 [19.9]
.079-.119 [2.0-3.0]	.788 [20.0]

TERMINAL OPTIONS			
1	2	3	5
.187 Q.C.	.250 Q.C.	.157 Solder	.098 Solder

IEC-C DEDICATED PANEL SNAP



IEC-C-1-150



**Recommended
Panel Cut-Out**

PANEL THICKNESS	PART NUMBER	DIM "A"
0.8mm	IEC-C-X-080	.031 [0.80]
1.5mm	IEC-C-X-150	.059 [1.50]
3.0mm	IEC-C-X-300	.118 [3.00]
4.0mm	IEC-C-X-400	.157 [4.00]

Replace X with terminal option below

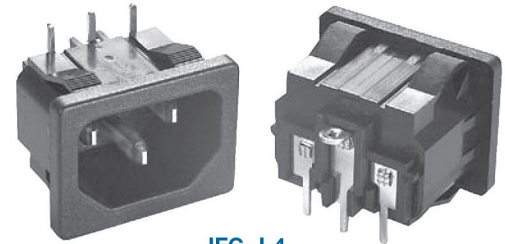
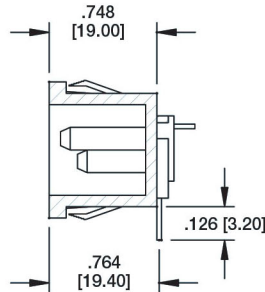
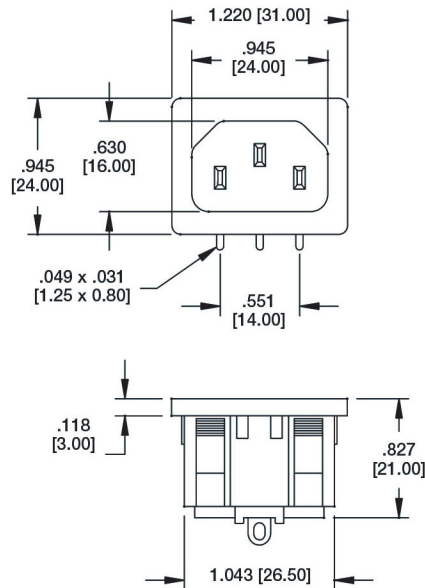
TERMINAL OPTIONS			
1	2	3	5
.187 Q.C.	.250 Q.C.	.157 Solder	.098 Solder

AC INLETS & OUTLETS

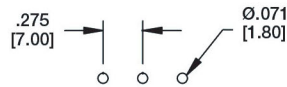
IEC 320 CONNECTORS IEC SERIES

IEC-J

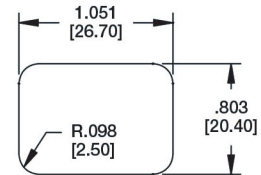
UNIVERSAL PANEL SNAP RIGHT ANGLE PCB MOUNT



IEC-J-4



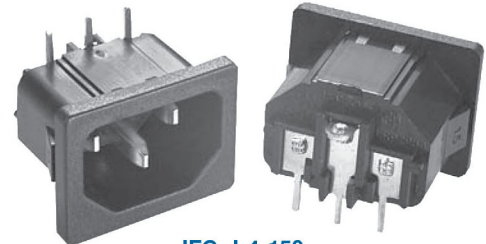
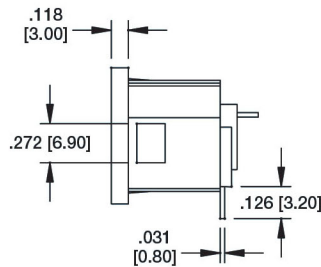
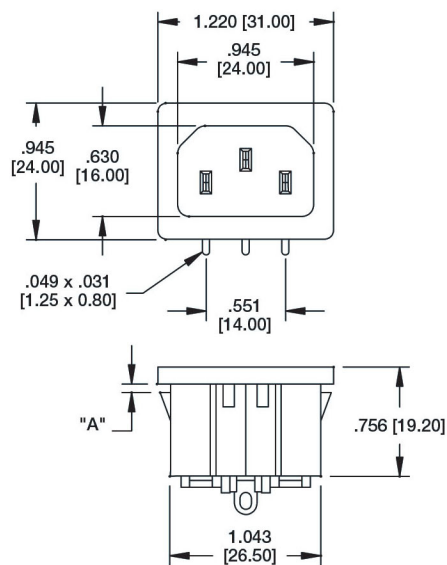
Recommended PCB
Layout



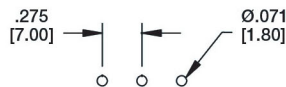
Recommended Panel
Thickness: 0.80 - 3.0mm

IEC-J

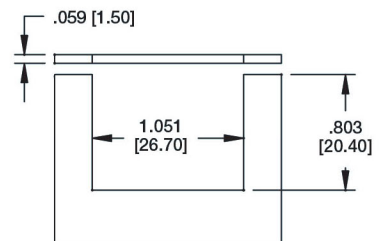
DEDICATED PANEL SNAP RIGHT ANGLE PCB MOUNT



IEC-J-4-150



Recommended PCB
Layout



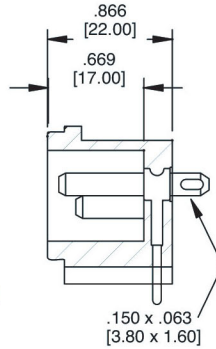
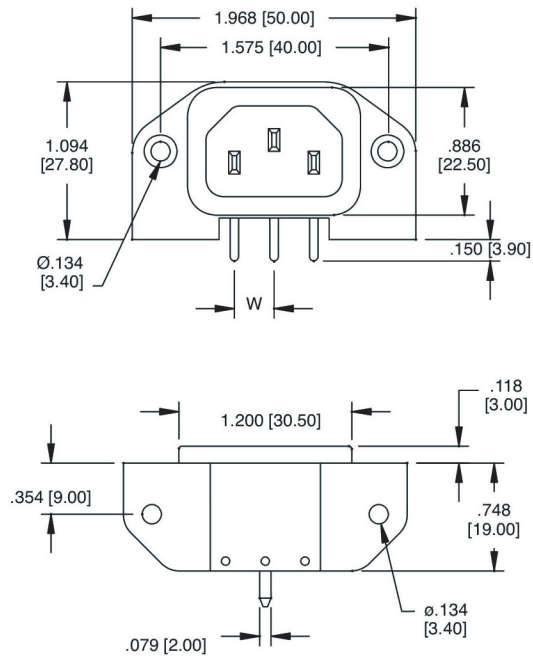
Recommended Panel Cut-Out

PANEL THICKNESS	PART NUMBER	DIM "A"
0.8mm	IEC-J-4-120	.047 [1.20]
1.5mm	IEC-J-4-150	.059 [1.50]
3.0mm	IEC-J-4-200	.079 [2.00]
4.0mm	IEC-J-4-300	.118 [3.00]

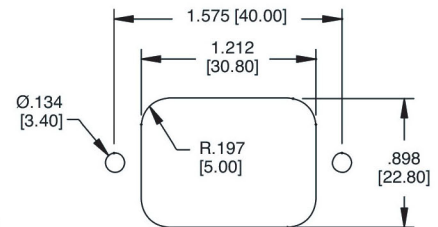
AC INLETS & OUTLETS

IEC 320 CONNECTORS IEC SERIES

IEC-E FLANGED RIGHT ANGLE PCB MOUNT



IEC-EW-4

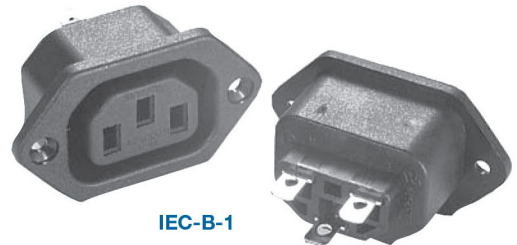
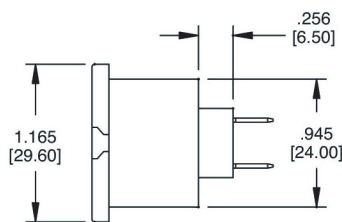
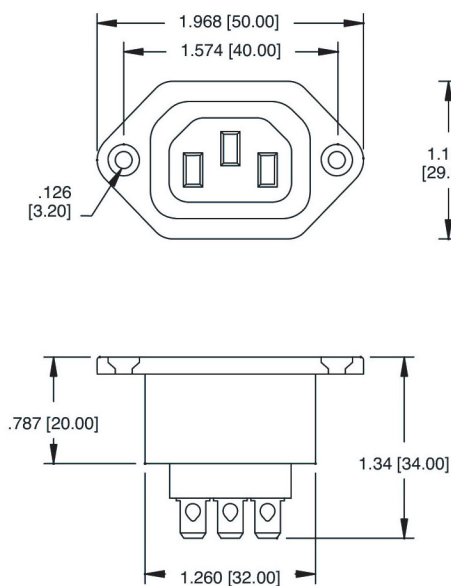


Recommended Panel Cut-Out

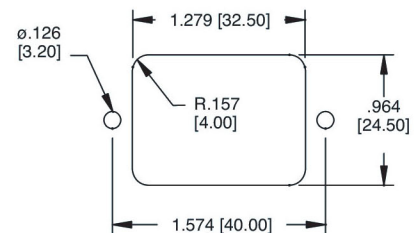
DIMENSIONAL		
PART NO.	F	W
IEC-EW	.287 [7.30]	.276 [7.00]
IEC-EX	.287 [7.30]	.358 [9.10]
IEC-EY	.382 [9.70]	.276 [7.00]
IEC-EZ	.382 [9.70]	.358 [9.10]

Recommended PCB Layout

IEC-B FLANGED SCREW ON PANEL MOUNT



IEC-B-1



Recommended Panel Cut-Out

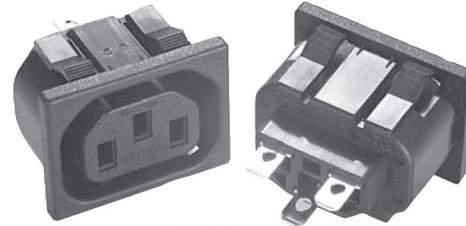
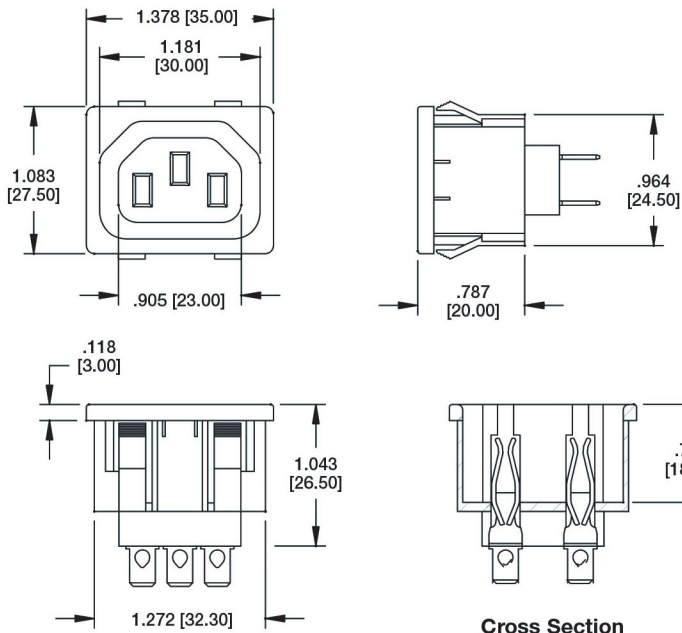
TERMINAL OPTIONS		
1	2	3
.187 Q.C.	.250 Q.C.	.157 Solder

Cross Section

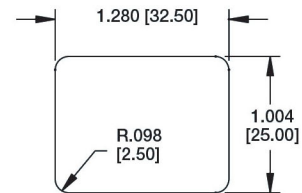
AC INLETS & OUTLETS

IEC 320 CONNECTORS IEC SERIES

IEC-D UNIVERSAL PANEL SNAP

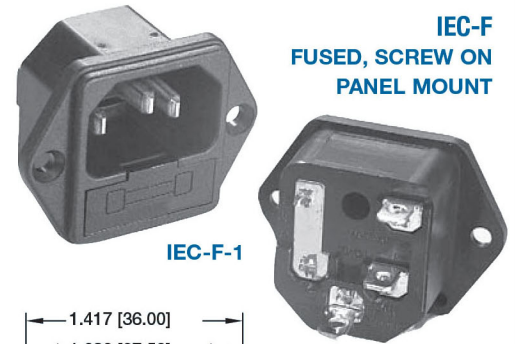
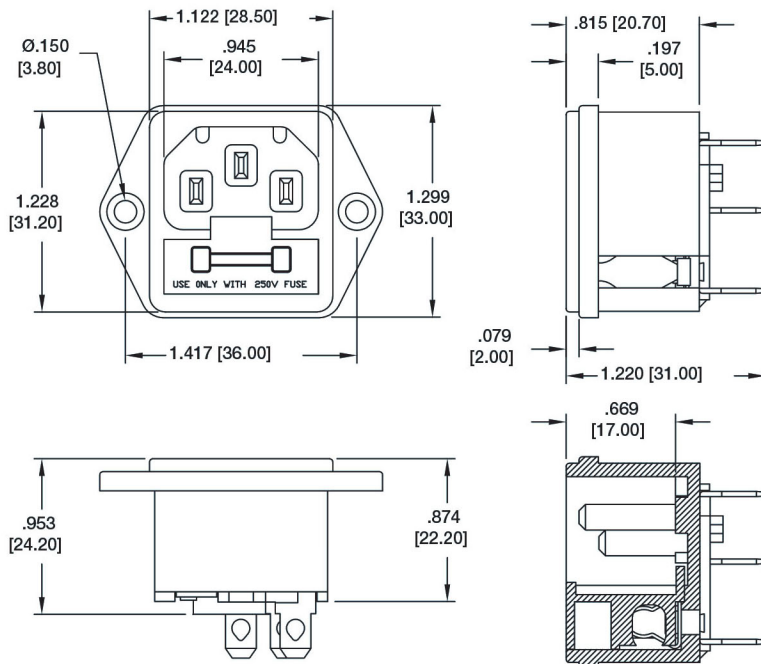


IEC-D-1

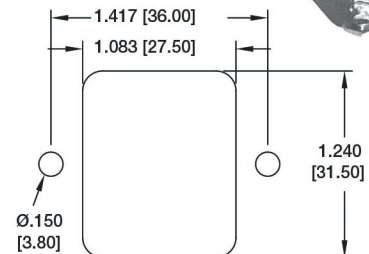


Recommended Panel Thickness:
0.8mm - 3.0mm

TERMINAL OPTIONS		
1	2	3
.187 Q.C.	.250 Q.C.	.157 Solder



IEC-F-1



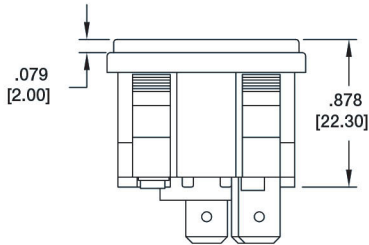
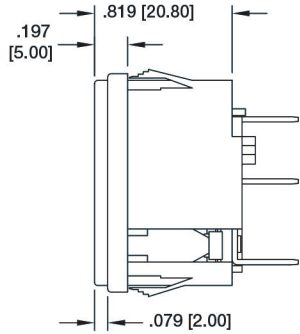
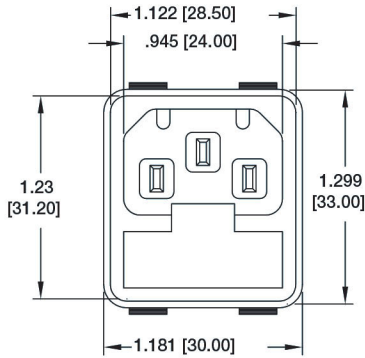
Recommended Panel Cut-Out

TERMINAL OPTIONS	
1	2
.187 Q.C.	.250 Q.C.

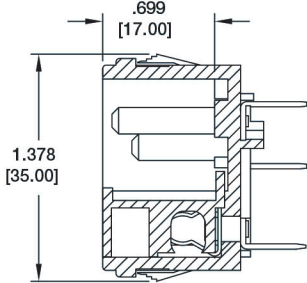
Cross Section

AC INLETS & OUTLETS

IEC 320 CONNECTORS IEC SERIES



PANEL THICKNESS	DIM X
.031-.071 [0.8-1.8]	1.240 [31.50]
.075-.126 [1.9-3.2]	1.248 [31.70]

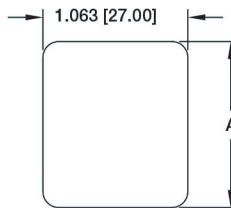
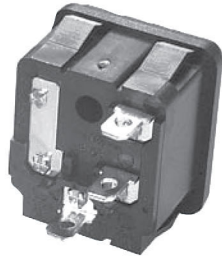


Cross Section



IEC-G-1

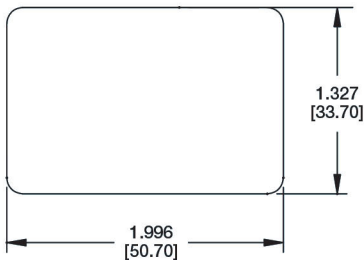
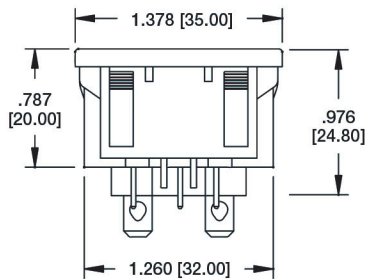
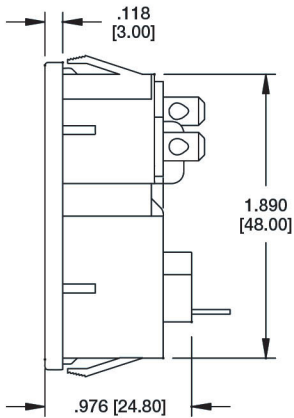
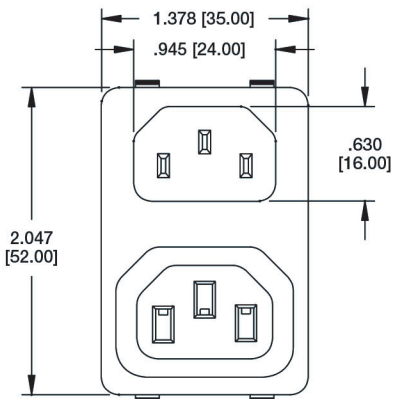
IEC-G
FUSED WITH UNIVERSAL
PANEL SNAP



PANEL THICKNESS	DIMENSIONS
	A
.031-.071 [0.80-1.80]	1.240 [31.50]
.075-.126 [1.90-3.20]	1.248 [31.70]

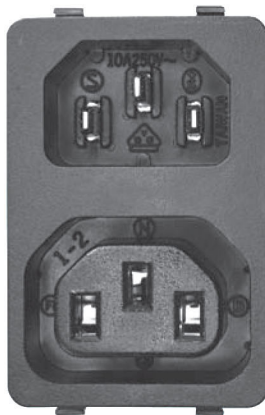
Recommended Panel Cut-Out

TERMINAL OPTIONS		
1	2	5
.187 Q.C.	.250 Q.C.	.157 Solder



Recommended Panel Cut-Out

IEC-HS
FUSED INLET & OUTLET
WITH UNIVERSAL
PANEL SNAP



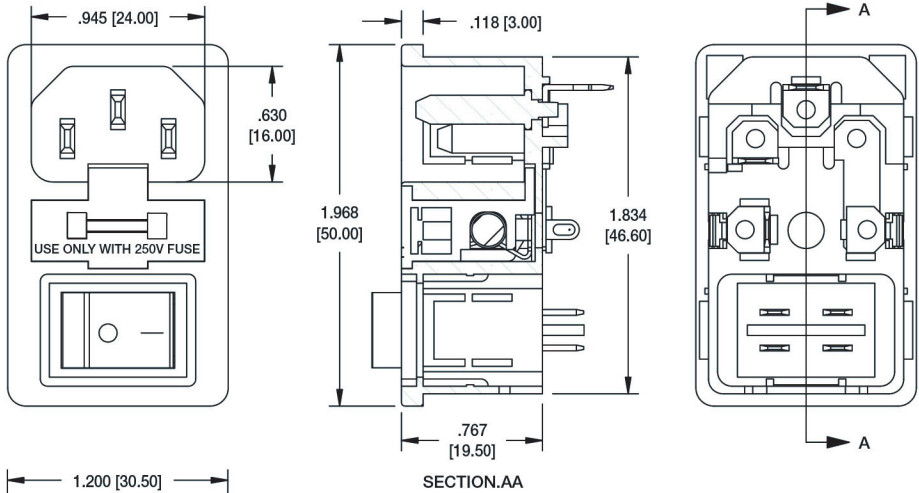
IEC-HS-1

AC INLETS & OUTLETS

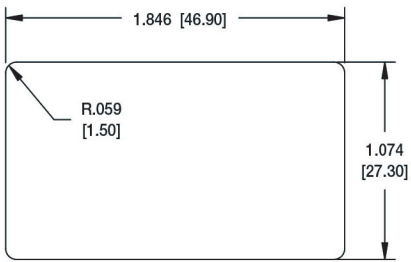
IEC 320 CONNECTORS IEC SERIES

IEC-GS-1 FUSED INLET WITH SWITCH, SNAP IN PANEL MOUNT

PART NUMBER	DIM "A"
IEC-GS-1-100	.039 [1.00]
IEC-GS-1-150	.059 [1.50]
IEC-GS-1-200	.079 [2.00]



SECTION AA



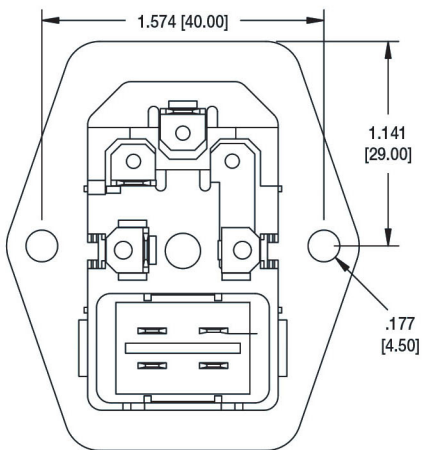
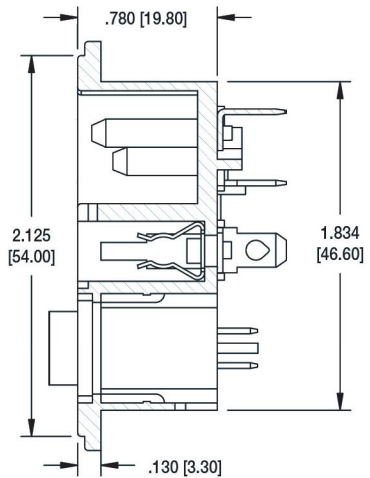
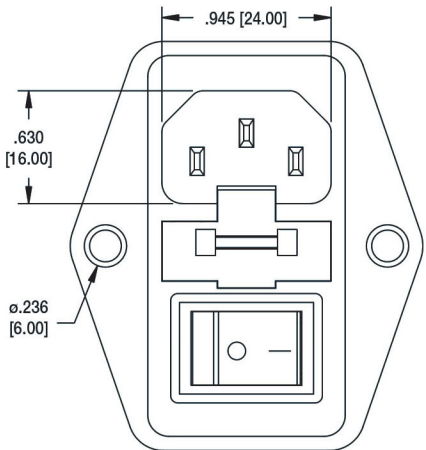
Recommended Panel Cut-Out

IEC-GS-1-100



IEC-FS-1 FUSED INLET WITH SWITCH, SCREW ON PANEL MOUNT

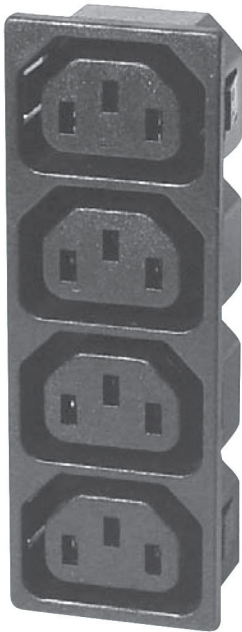
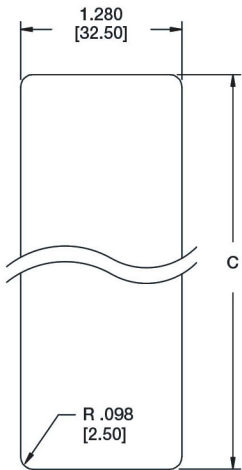
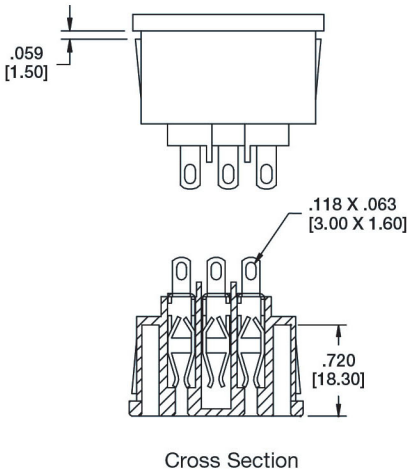
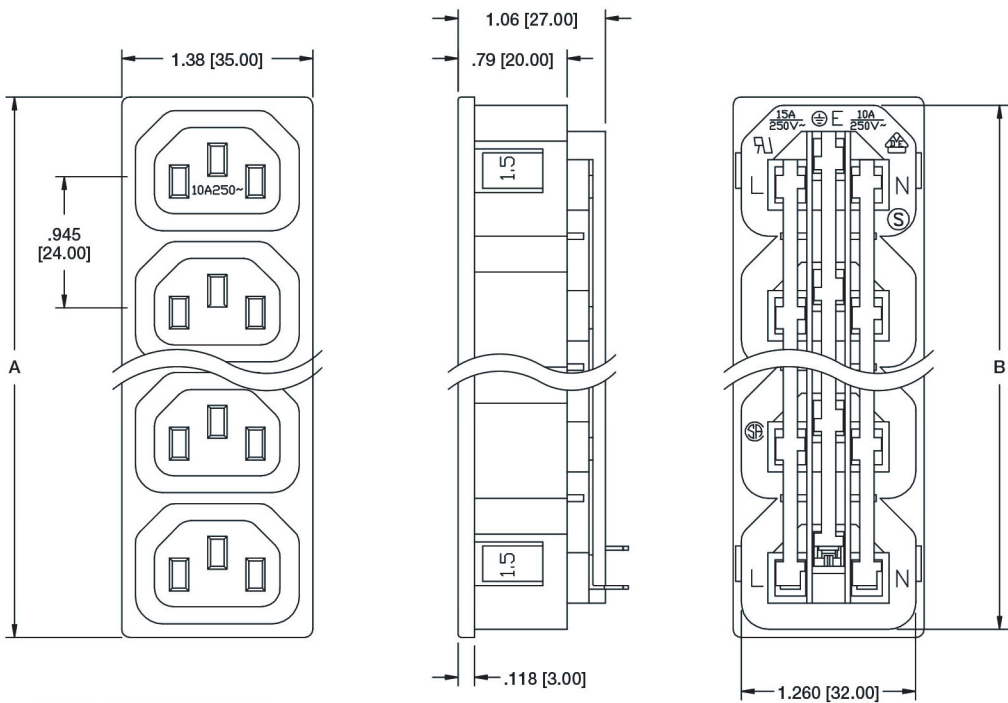
IEC-FS-1



AC INLETS & OUTLETS

IEC 320 CONNECTORS IEC SERIES

IEC-D-S
STACKED OUTLETS WITH
DEDICATED PANEL SNAPS



IEC-D-S4-150

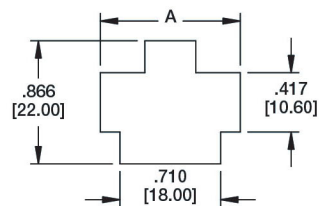
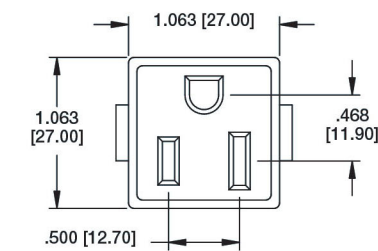
DIMENSIONS				
PART NUMBER	PORTS	A	B	C
IEC-D-S2-150	2	2.007 [51.00]	1.890 [48.00]	1.901 [48.30]
IEC-D-S3-150	3	2.953 [75.00]	2.835 [72.00]	2.846 [72.30]
IEC-D-S4-150	4	3.897 [99.00]	3.780 [96.00]	3.791 [96.30]
IEC-D-S5-150	5	4.842 [123.00]	4.724 [120.00]	4.736 [120.30]
IEC-D-S6-150	6	5.787 [147.00]	5.670 [144.00]	5.681 [144.30]
IEC-D-S7-150	7	6.732 [171.00]	6.614 [168.00]	6.626 [168.30]

*PART NUMBERS SHOWN ARE FOR 1.5mm PANEL THICKNESS. CONSULT FACTORY FOR OTHER PANEL THICKNESSES REQUIREMENTS

POWER OUTLET

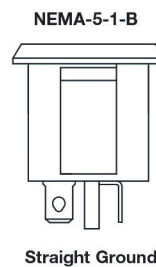
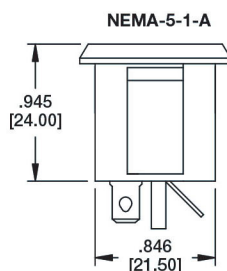
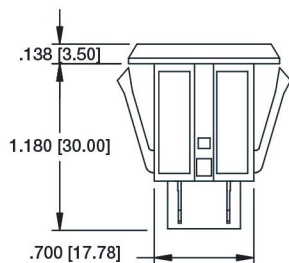
NEMA RECEPTACLES IEC SERIES

NEMA-5-1-A UNIVERSAL PANEL SNAP



PANEL THICKNESS	DIM. A
.031 [0.80]	.945 [24.00]
.039 [1.00]	.968 [24.60]
.047 [1.20]	.992 [25.20]
.063 [1.60]	1.031 [26.20]

Recommended Panel Cut-Out For
1.50mm Panel Thickness

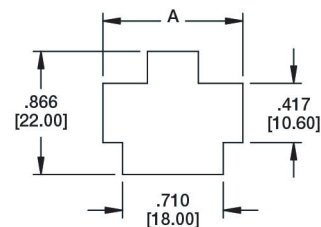
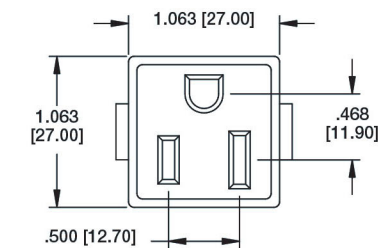


Straight Ground

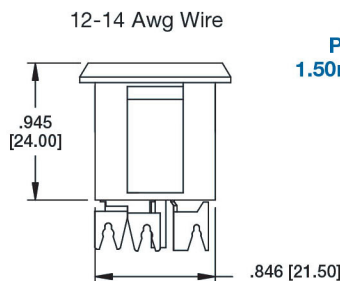
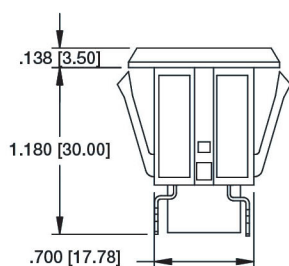


NEMA-5-1

NEMA-5-2 UNIVERSAL PANEL SNAP

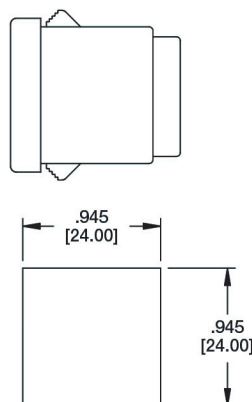
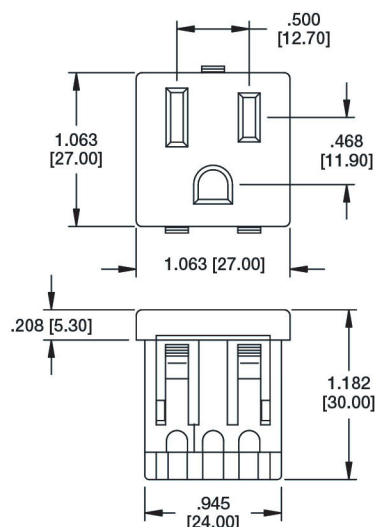


Recommended
Panel Cut-Out For
1.50mm Panel Thickness



NEMA-5-2

NEMA-5-3 UNIVERSAL PANEL SNAP



Recommended Panel Cut-Out For
Panel 0.8mm - 1.50mm



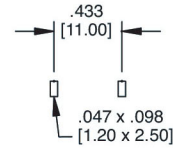
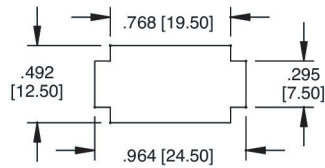
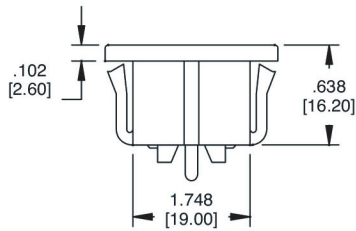
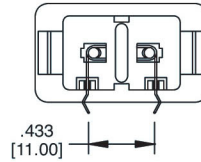
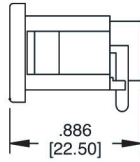
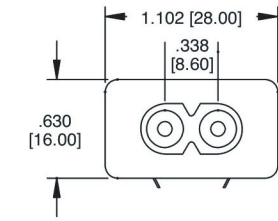
NEMA-5-3

MINI AC OUTLETS

MINI IEC CONNECTORS IEC SERIES

IEC-NA-4

UNIVERSAL PANEL SNAP

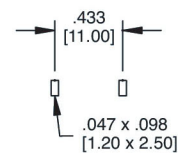
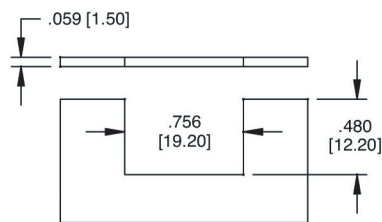
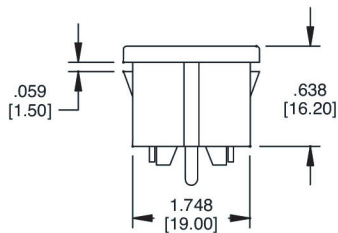
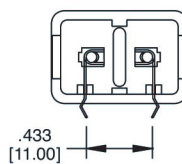
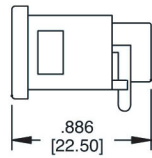
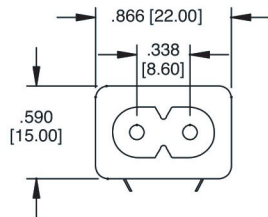


Recommended Panel Cut-Out

Recommended PCB Layout

IEC-NB-4

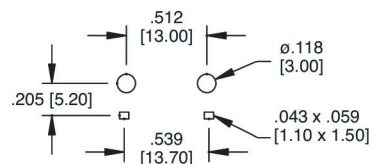
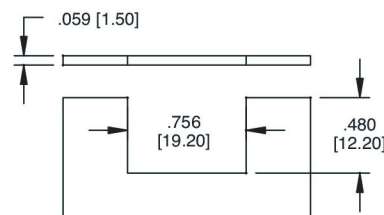
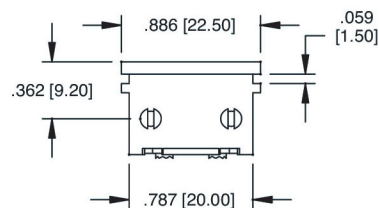
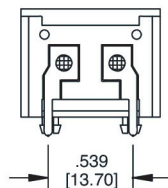
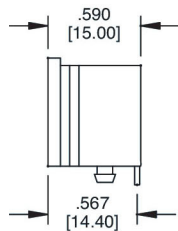
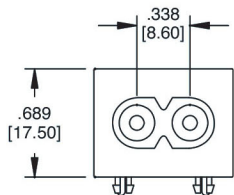
DEDICATED PANEL SNAP



Recommended Panel Cut-Out

Recommended PCB Layout

IEC-NB-A-4 SLIDE ON PANEL



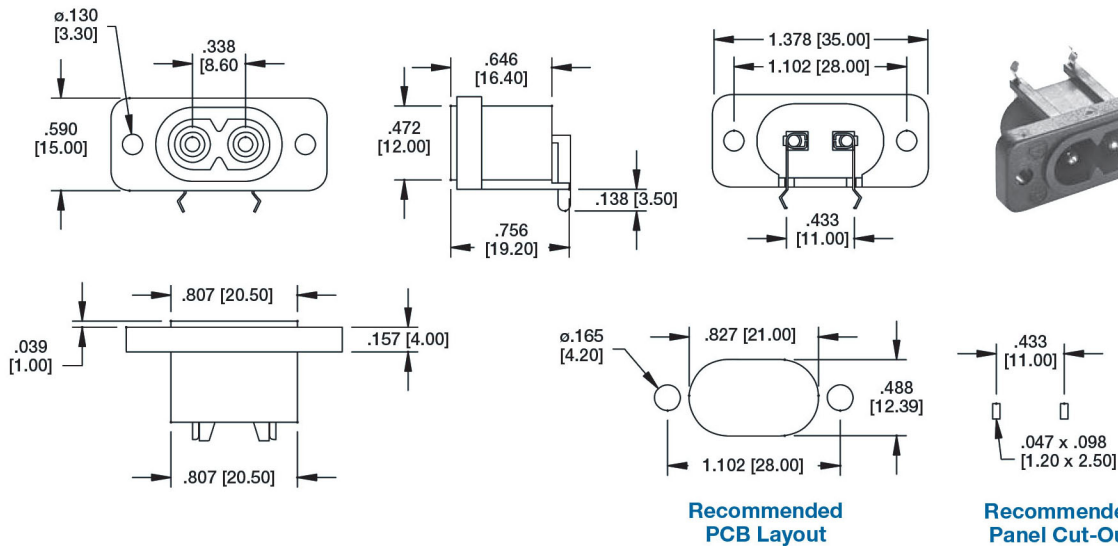
Recommended Panel Cut-Out

Recommended PCB Layout

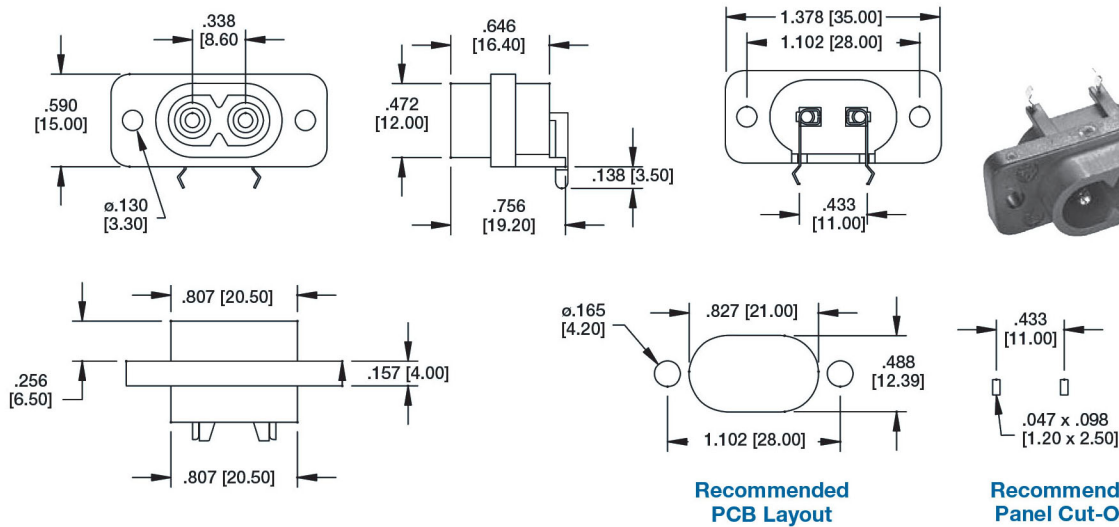
MINI AC OUTLETS

MINI IEC CONNECTORS IEC SERIES

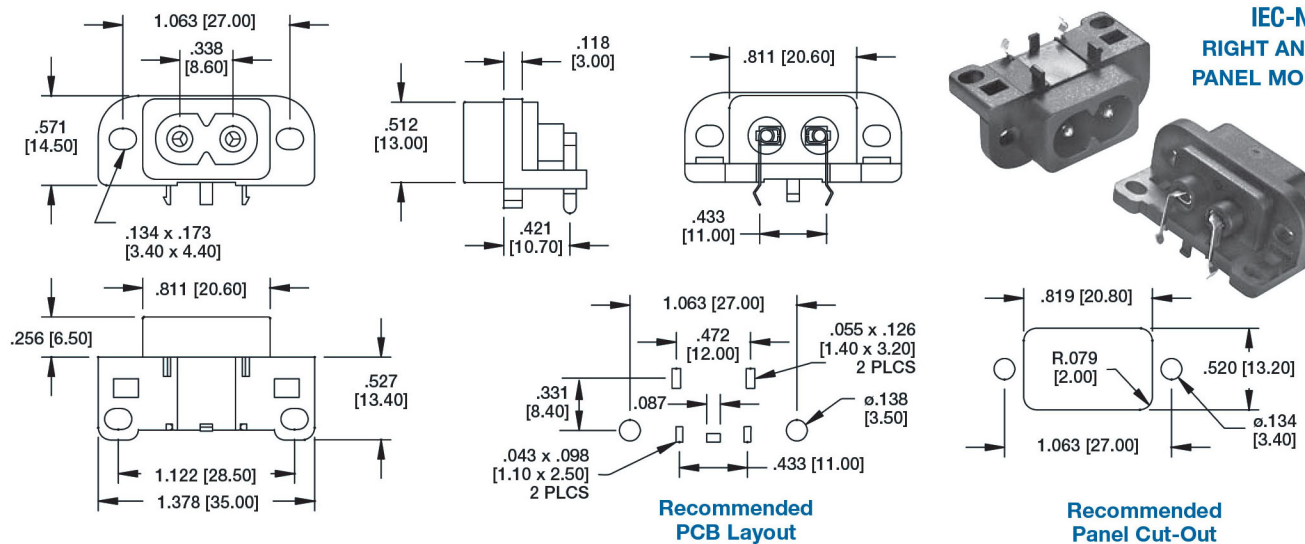
IEC-NC-4 RIGHT ANGLE PANEL MOUNT



IEC-NC-A-4 RIGHT ANGLE PANEL MOUNT



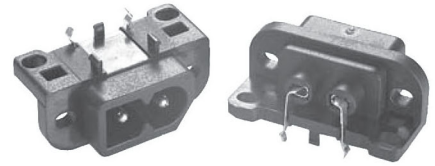
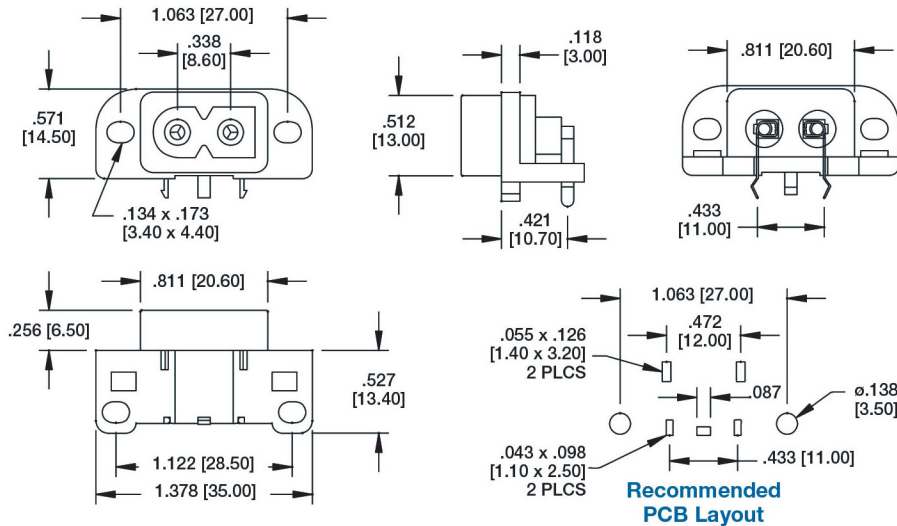
IEC-ND-4 RIGHT ANGLE PANEL MOUNT



MINI AC OUTLETS

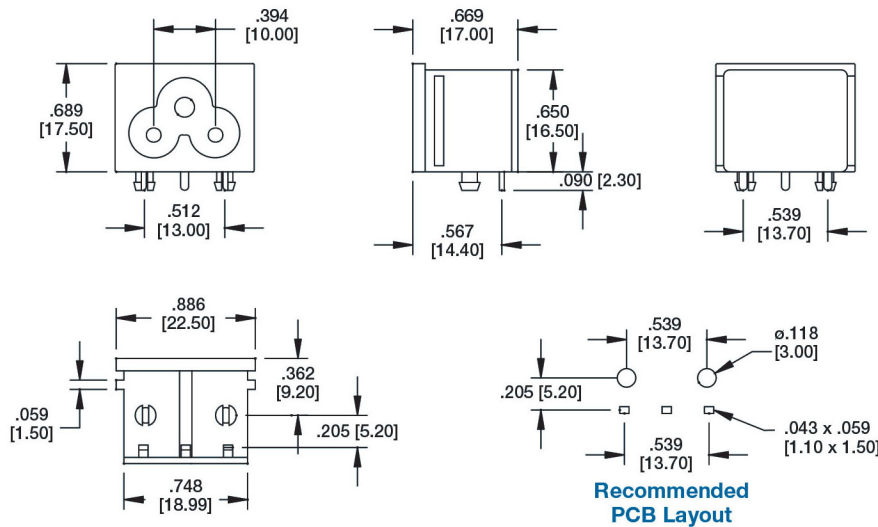
MINI IEC CONNECTORS IEC SERIES

IEC-NF-4 RIGHT ANGLE PANEL MOUNT



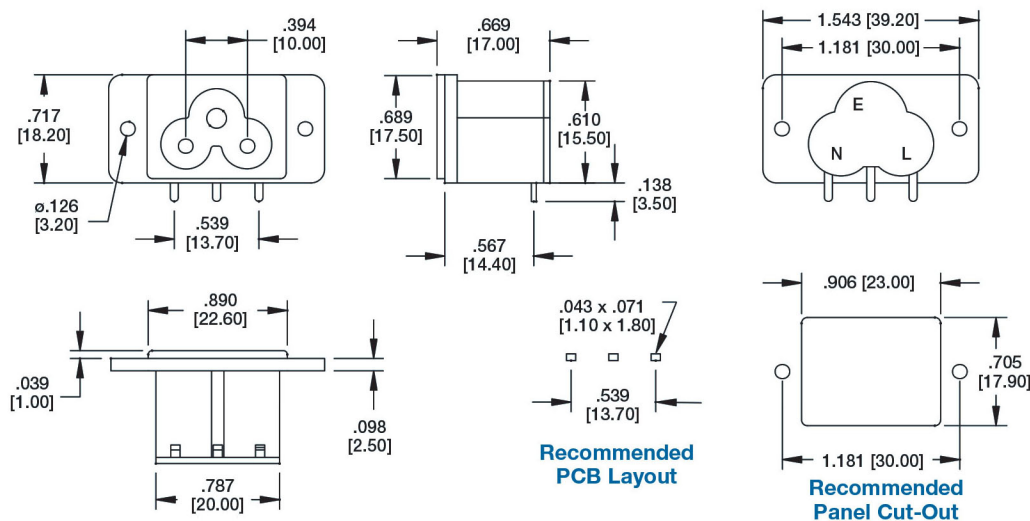
Recommended Panel Cut-Out

IEC-NH-4 RIGHT ANGLE SLIDE ON PANEL



Recommended Panel Cut-Out

IEC-NH-A-4 RIGHT ANGLE SCREW ON PANEL MOUNT



Recommended Panel Cut-Out

CUSTOM POWER CONNECTOR SOLUTIONS

Adam Tech can provide custom power connector solutions from concept to production. Adam Tech utilizes over 30 years of experience to create high quality and reliable solutions to meet your application needs.

Send us your requirements and let our team of experienced design engineers provide solutions for you. We offer a 'complete capability' service which includes in house engineering, component manufacturing, assembly and technical sales support.

Refer to below case studies of some custom power connectors we've built for our customers.



Custom Panel Mount,
Right Angle PCB Mount NEMA,
Ganged



Custom Panel Mount,
Right Angle PCB Mount NEMA,
Single



NEMA Outlet with
Retention Hooks



Custom Wired Power Plug

Adam Tech • USA
909 Rahway Ave
Union, NJ 07083
Tel: 908.687.5000
Fax: 908.687.5710
Email: info@adam-tech.com
www.adam-tech.com

Adam Tech • TAIWAN
5F-17, No.14, Lane 609,
Sec. 5, Chongsin Rd.
New Taipei City, Taiwan (R.O.C.)
Tel: 886-2 2999 8028
Fax: 886-2 2999 8062
Email: sales@adam-tech.com
www.adam-tech.com.tw

