

COMPACT HIGH CURRENT POWER INDUCTOR CSBL/CSBX SERIES



About this guide

- Mainly use in:
Industry control, medical equipment, new energy
- Features:
 - Flat-wire winding achieves a low DC resistance
 - The magnetic-shielded structure provides excellent resistance to electromagnetic interference (EMI)
- Electronic parameter
 - Operation temperature: -40~125℃
 - Inductance range: 0.10~101(μH)
 - Irms range : 2.90~41.5(A)

Compact High Current Power Inductor CSBL / CSBX

CSBL0530	01	CSBL2212	16
CSBL0550	02	CSBX0630	17
CSBL0630	03	CSBX0640	18
CSBL0640	04	CSBX0650	19
CSBL0650	05	CSBX1030	20
CSBL1030	06	CSBX1040	21
CSBL1040	07	CSBX1050	22
CSBL1050	08	CSBX1060	23
CSBL1060	09	CSBX1235	24
CSBL1235	10	CSBX1250	25
CSBL1250	11	CSBX1265	26
CSBL1265	12	CSBX1275	27
CSBL1275	13	CSBX1670	28
CSBL1670	14	CSBX1809	29
CSBL1809	15	CSBX2212	30

AEC-Q200

CSBL0530



Operating temperature range: -50°C ~ +150°C

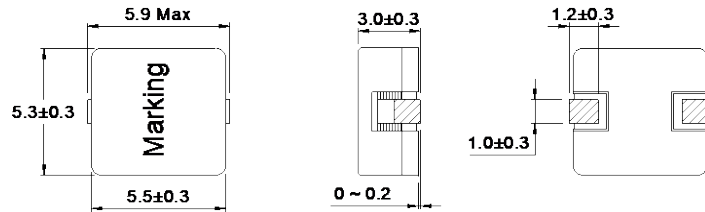
Construction



Wire



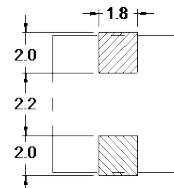
Appearance and Dimensions (mm)



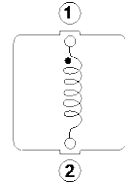
Marking



Reference Land Pattern (mm)



Schematic



Electrical Characteristics

Part No.	Inductance (μH) ※1	D.C.R. (mΩ)		Saturation current (A) ※2	Temperature rise current (A) ※3
	±20%	Typ.	Max.	Typ.	Typ.
CSBL0530-R08M	0.08	0.72	0.86	40.0	25.0
CSBL0530-R20M	0.20	1.50	1.80	23.0	19.0
CSBL0530-R36M	0.36	2.77	3.30	15.0	14.0
CSBL0530-R60M	0.60	4.25	5.10	12.2	12.0
CSBL0530-R85M	0.85	6.78	8.15	10.0	9.00
CSBL0530-1R2M	1.20	10.0	11.9	8.00	7.50
CSBL0530-1R6M	1.60	13.6	16.3	7.30	6.50
CSBL0530-2R0M	2.00	16.5	19.8	6.50	6.00

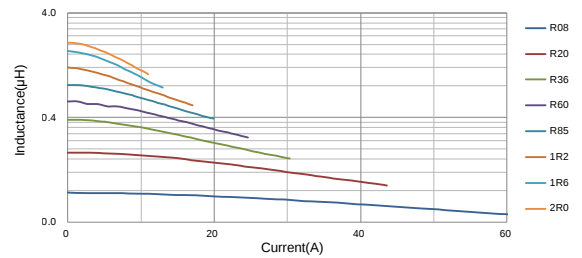
■ All data is tested based on 25°C ambient temperature.

※1 Inductance measure condition at 100kHz, 0.5V.

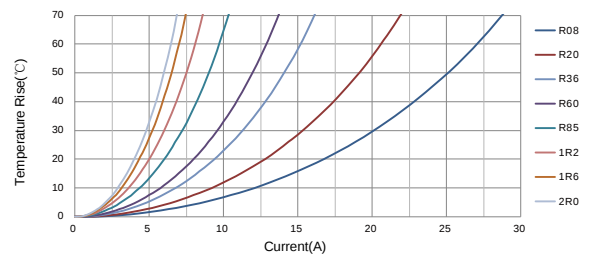
※2 Saturation current: the actual value of DC current when the inductance decrease 30% of its initial value.

※3 Temperature rise current: the actual value of DC current when the temperature rise is ΔT50°C (Ta=25°C).

Saturation Current Curve



Temperature Rise Current Curve



AEC-Q200

CSBL0550



Operating temperature range: -50°C ~ +150°C

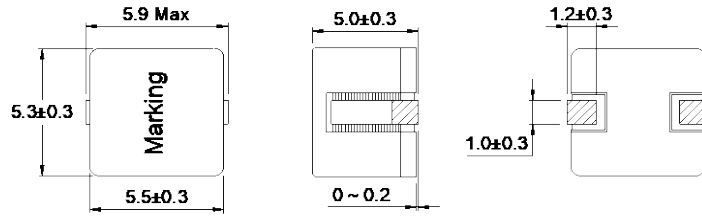
Construction



Wire



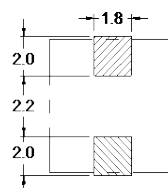
Appearance and Dimensions (mm)



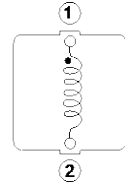
Marking



Reference Land Pattern (mm)



Schematic



Electrical Characteristics

Part No.	Inductance (μH) ※1	D.C.R. (mΩ)		Saturation current (A) ※2	Temperature rise current (A) ※3
	±20%	Typ.	Max.	Typ.	Typ.
CSBL0550-R42M	0.42	1.80	2.15	19.0	19.0
CSBL0550-R60M	0.60	2.75	3.30	16.0	16.0
CSBL0550-R82M	0.82	3.50	4.20	14.0	14.0
CSBL0550-1R1M	1.10	4.80	5.70	12.0	12.0
CSBL0550-1R7M	1.70	7.70	9.25	9.30	9.30
CSBL0550-2R1M	2.10	9.70	11.6	8.20	8.20
CSBL0550-3R4M	3.40	15.8	18.9	6.50	6.50
CSBL0550-4R6M	4.60	20.0	24.0	5.60	5.60
CSBL0550-5R8M	5.80	32.0	38.5	5.00	4.50
CSBL0550-6R8M	6.80	33.7	40.5	4.30	4.30
CSBL0550-8R2M	8.20	38.9	46.7	3.80	3.80

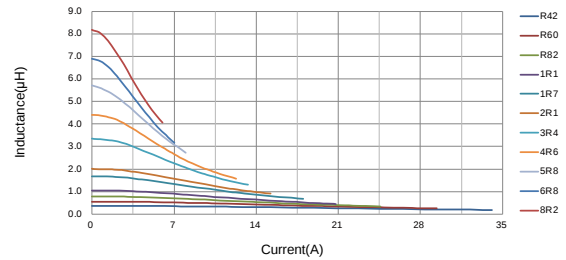
■ All data is tested based on 25°C ambient temperature.

※1 Inductance measure condition at 100kHz, 0.5V.

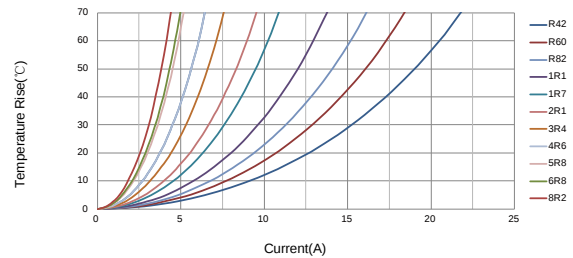
※2 Saturation current: the actual value of DC current when the inductance decrease 30% of its initial value.

※3 Temperature rise current: the actual value of DC current when the temperature rise is ΔT50°C (Ta=25°C).

Saturation Current Curve



Temperature Rise Current Curve



AEC-Q200

CSBL0630



Operating temperature range: -50°C ~ +150°C

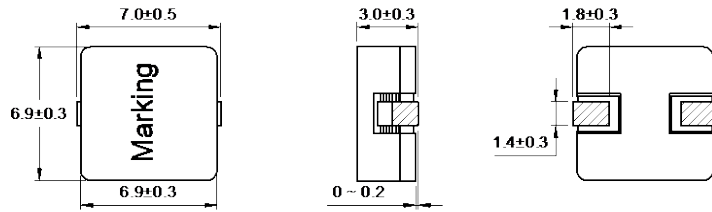
Construction



Wire



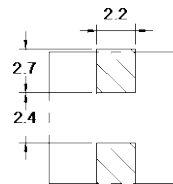
Appearance and Dimensions (mm)



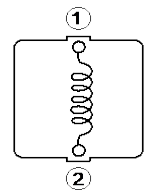
Marking



Reference Land Pattern (mm)



Schematic



Electrical Characteristics

Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typ.	Max.	Typ.	Typ.
CSBL0630-R10M	0.10	0.78	0.90	52.0	23.0
CSBL0630-R22M	0.22	1.58	1.82	42.0	19.0
CSBL0630-R47M	0.47	3.40	3.91	28.0	14.5
CSBL0630-1R0M	1.00	5.63	6.50	13.0	11.5
CSBL0630-1R5M	1.50	7.90	9.10	11.0	8.70
CSBL0630-2R2M	2.20	10.8	12.4	9.00	7.80

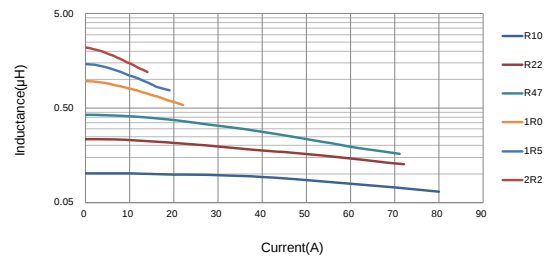
■ All data is tested based on 25°C ambient temperature.

※1 Inductance measure condition at 100kHz, 0.5V.

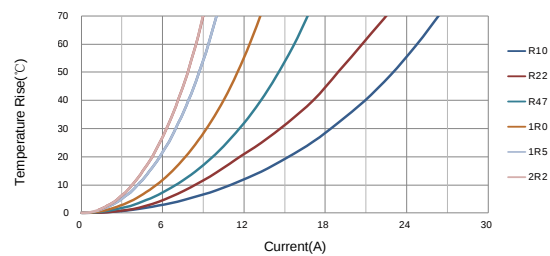
※2 Saturation current: the actual value of DC current when the inductance decrease 30% of its initial value.

※3 Temperature rise current: the actual value of DC current when the temperature rise is ΔT50°C (Ta=25°C).

Saturation Current Curve



Temperature Rise Current Curve



AEC-Q200

CSBL0640



Operating temperature range: -50°C ~ +150°C

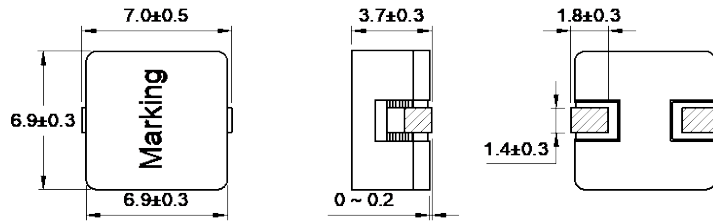
Construction



Wire



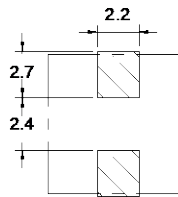
Appearance and Dimensions (mm)



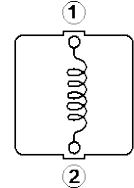
Marking



Reference Land Pattern (mm)



Schematic



Electrical Characteristics

Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typ.	Max.	Typ.	Typ.
CSBL0640-R24M	0.24	1.00	1.20	30.0	21.0
CSBL0640-R47M	0.47	1.66	1.90	25.0	19.0
CSBL0640-R68M	0.68	2.72	3.20	20.0	17.5
CSBL0640-1R0M	1.00	3.90	4.50	19.0	15.5
CSBL0640-1R5M	1.50	5.40	6.20	14.0	11.5
CSBL0640-2R2M	2.20	10.5	12.1	13.0	9.00
CSBL0640-3R5M	3.50	15.0	17.3	11.0	6.80
CSBL0640-4R7M	4.70	18.4	21.2	8.50	6.40
CSBL0640-5R6M	5.60	20.1	23.0	7.80	5.50
CSBL0640-6R5M	6.50	31.5	36.2	6.50	4.60

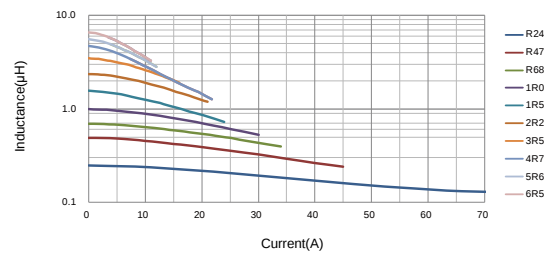
■ All data is tested based on 25°C ambient temperature.

※1 Inductance measure condition at 100kHz, 0.5V.

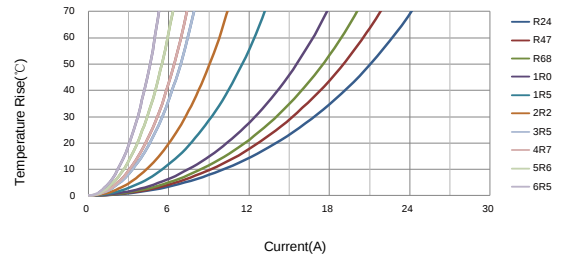
※2 Saturation current: the actual value of DC current when the inductance decrease 30% of its initial value.

※3 Temperature rise current: the actual value of DC current when the temperature rise is ΔT50°C (Ta=25°C).

Saturation Current Curve



Temperature Rise Current Curve



AEC-Q200

CSBL0650



Operating temperature range: -50°C ~ +150°C

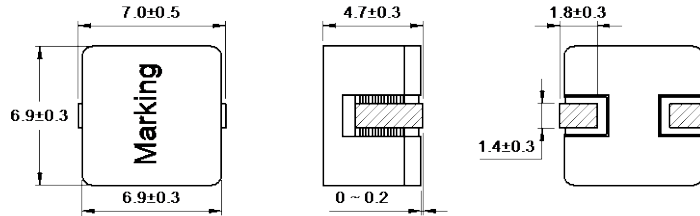
Construction



Wire



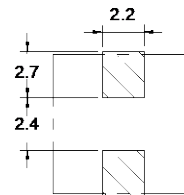
Appearance and Dimensions (mm)



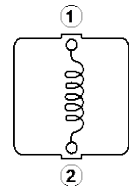
Marking



Reference Land Pattern (mm)



Schematic



Electrical Characteristics

Part No.	Inductance (μH)※1		D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typ.		Max.		
CSBL0650-R25M	0.25	0.88	1.00	35.0	21.0	
CSBL0650-R47M	0.47	1.36	1.56	25.0	18.0	
CSBL0650-1R0M	1.00	3.55	4.10	21.0	15.0	
CSBL0650-1R5M	1.50	4.10	4.75	16.0	13.5	
CSBL0650-2R0M	2.00	5.57	6.40	14.0	11.8	
CSBL0650-2R7M	2.70	7.10	8.20	11.8	10.3	
CSBL0650-3R3M	3.30	8.50	9.80	10.5	9.00	
CSBL0650-3R9M	3.90	12.3	14.2	10.0	8.00	
CSBL0650-4R7M	4.70	14.8	17.0	9.00	6.50	
CSBL0650-5R6M	5.60	19.2	22.1	8.50	6.20	
CSBL0650-6R8M	6.80	20.5	23.6	7.80	6.00	
CSBL0650-7R6M	7.60	20.5	23.6	7.00	6.00	
CSBL0650-8R8M	8.80	21.6	24.9	6.50	4.80	
CSBL0650-100M	10.0	26.5	30.5	6.00	4.40	
CSBL0650-130M	13.0	38.6	44.5	5.00	3.10	

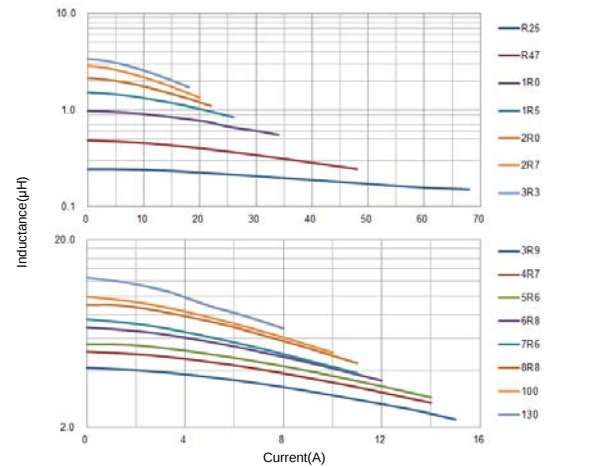
■ All data is tested based on 25°C ambient temperature.

※1 Inductance measure condition at 100kHz, 0.5V.

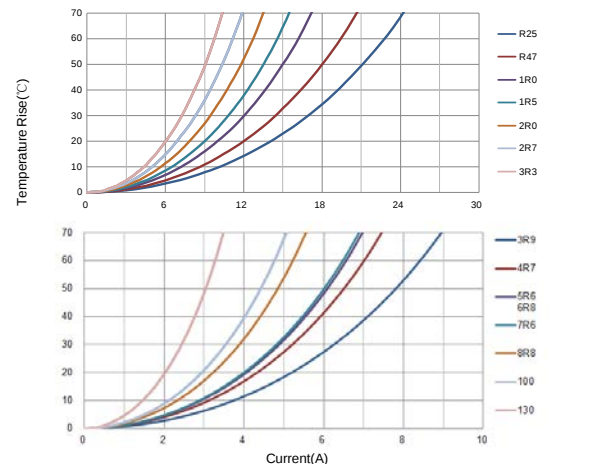
※2 Saturation current: the actual value of DC current when the inductance decrease 30% of its initial value.

※3 Temperature rise current: the actual value of DC current when the temperature rise is ΔT50°C (Ta=25°C).

Saturation Current Curve



Temperature Rise Current Curve



AEC-Q200

CSBL1030



Operating temperature range: -50°C ~ +150°C

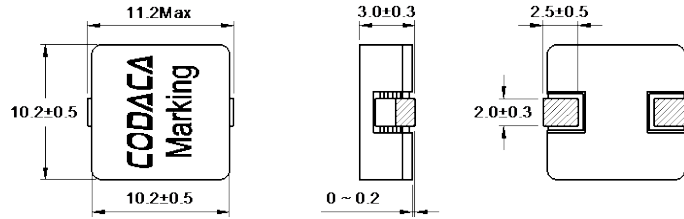
Construction



Wire



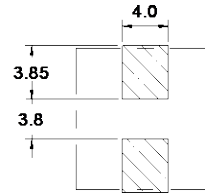
Appearance and Dimensions (mm)



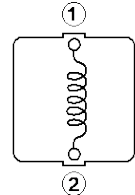
Marking



Reference Land Pattern (mm)



Schematic



Electrical Characteristics

Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typ.	Max.	Typ.	Typ.
CSBL1030-R20M	0.20	0.82	0.95	50.0	22.0
CSBL1030-R47M	0.47	2.15	2.50	32.0	18.0
CSBL1030-1R0M	1.00	4.08	4.70	21.0	15.0
CSBL1030-1R5M	1.50	6.58	7.60	18.0	12.0
CSBL1030-2R2M	2.20	11.5	13.3	15.0	9.00
CSBL1030-2R5M	2.50	11.5	13.3	12.0	9.00

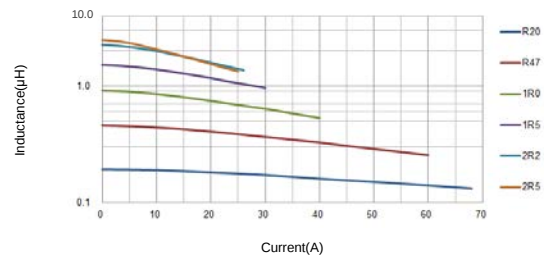
■ All data is tested based on 25°C ambient temperature.

※1 Inductance measure condition at 100kHz, 0.5V.

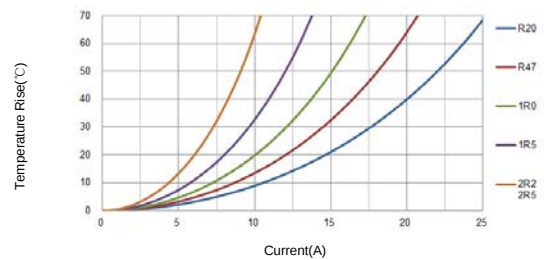
※2 Saturation current: the actual value of DC current when the inductance decrease 30% of its initial value.

※3 Temperature rise current: the actual value of DC current when the temperature rise is ΔT50°C (Ta=25°C).

Saturation Current Curve

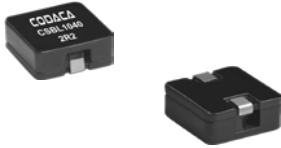


Temperature Rise Current Curve



AEC-Q200

CSBL1040



Operating temperature range: -50°C ~ +150°C

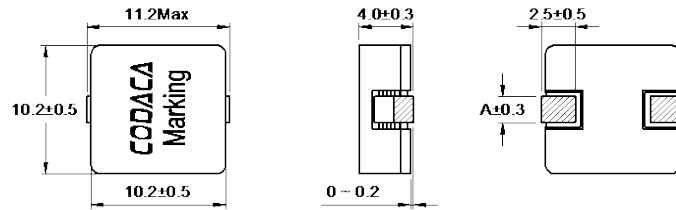
Construction



Wire



Appearance and Dimensions (mm)

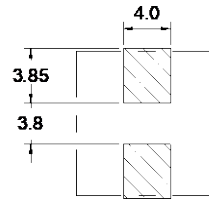


Inductance	0.18-0.66μH	1.00-6.80μH
A(mm)	2.50	2.00

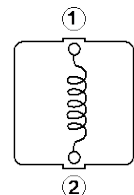
Marking



Reference Land Pattern (mm)



Schematic



Electrical Characteristics

Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typ.	Max.	Typ.	Typ.
CSBL1040-R18M	0.18	0.61	0.70	60.0	30.0
CSBL1040-R38M	0.38	1.11	1.28	50.0	22.0
CSBL1040-R66M	0.66	1.84	2.20	40.0	18.0
CSBL1040-1R0M	1.00	3.01	3.50	32.0	16.0
CSBL1040-1R5M	1.50	4.64	5.50	28.0	14.0
CSBL1040-2R2M	2.20	6.90	7.90	22.0	11.0
CSBL1040-2R7M	2.70	6.90	7.90	15.0	11.0
CSBL1040-3R5M	3.50	8.65	10.0	13.0	9.50
CSBL1040-4R5M	4.50	11.3	13.0	11.0	8.00
CSBL1040-5R6M	5.60	13.7	15.8	10.0	7.20
CSBL1040-6R8M	6.80	20.5	23.6	9.50	5.60

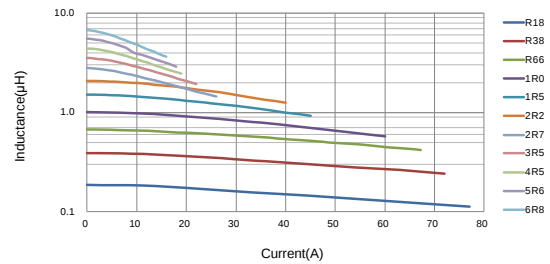
■ All data is tested based on 25°C ambient temperature.

※1 Inductance measure condition at 100kHz, 0.5V.

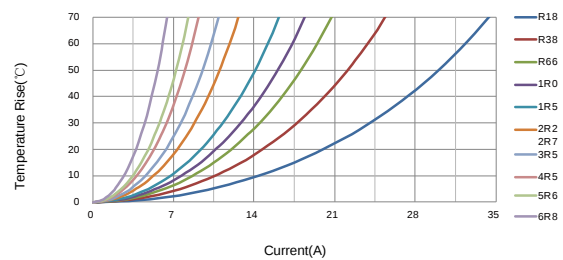
※2 Saturation current: the actual value of DC current when the inductance decrease 30% of its initial value.

※3 Temperature rise current: the actual value of DC current when the temperature rise is ΔT50°C (Ta=25°C).

Saturation Current Curve



Temperature Rise Current Curve



AEC-Q200 CSBL1050



Operating temperature range: -50°C ~ +150°C

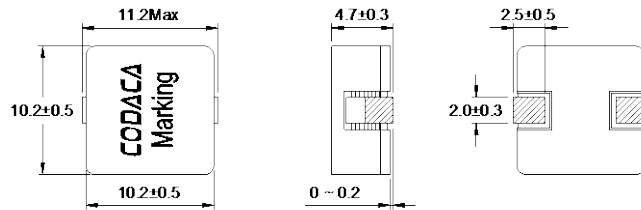
Construction



Wire



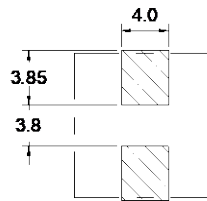
Appearance and Dimensions (mm)



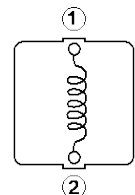
Marking



Reference Land Pattern (mm)



Schematic



Electrical Characteristics

Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A) ※2	Temperature rise current (A) ※3
	±20%	Typ.	Max.	Typ.	Typ.
CSBL1050-R18M	0.18	0.45	0.55	55.0	32.0
CSBL1050-R39M	0.39	0.67	0.77	38.0	24.0
CSBL1050-R82M	0.82	1.26	1.50	30.0	23.0
CSBL1050-1R2M	1.20	2.05	2.35	25.0	19.0
CSBL1050-1R8M	1.80	2.98	3.45	20.0	17.0
CSBL1050-2R5M	2.50	4.06	4.70	17.0	15.0
CSBL1050-3R3M	3.30	5.37	6.50	15.0	13.0
CSBL1050-4R2M	4.20	7.11	8.50	14.0	11.0
CSBL1050-5R6M	5.60	8.62	9.90	12.0	10.3
CSBL1050-6R8M	6.80	10.5	12.1	10.0	9.00
CSBL1050-8R2M	8.20	13.1	15.1	9.50	8.10
CSBL1050-100M	10.0	16.4	18.9	8.50	7.10
CSBL1050-150M	15.0	25.9	29.8	7.00	5.50
CSBL1050-180M	18.0	34.7	39.9	6.20	5.00

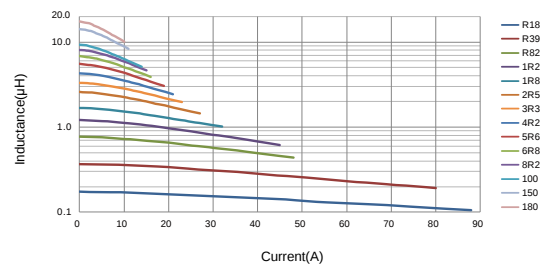
■ All data is tested based on 25°C ambient temperature.

※1 Inductance measure condition at 100kHz, 0.5V.

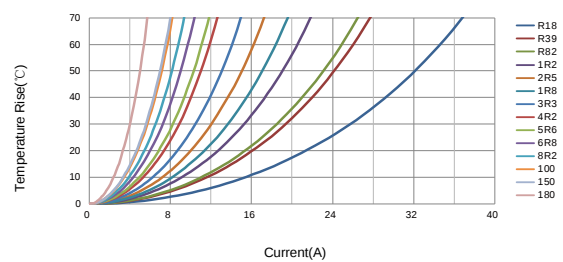
※2 Saturation current: the actual value of DC current when the inductance decrease 30% of its initial value.

※3 Temperature rise current: the actual value of DC current when the temperature rise is ΔT50°C (Ta=25°C).

Saturation Current Curve

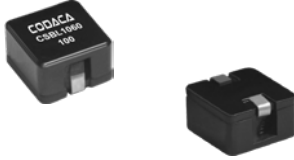


Temperature Rise Current Curve



AEC-Q200

CSBL1060



Operating temperature range: -50°C ~ +150°C

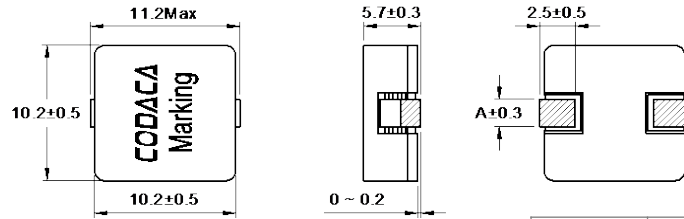
Construction



Wire



Appearance and Dimensions (mm)

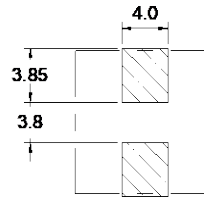


Inductance	0.38-2.20μH	2.90-2.70μH
A(mm)	2.50	2.00

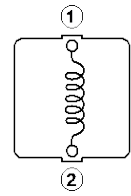
Marking



Reference Land Pattern (mm)



Schematic



Electrical Characteristics

Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typ.	Max.	Typ.	Typ.
CSBL1060-R38M	0.38	0.67	0.77	54.0	25.0
CSBL1060-1R0M	1.00	1.65	1.90	30.0	21.0
CSBL1060-1R5M	1.50	2.47	2.85	26.0	19.0
CSBL1060-2R2M	2.20	3.60	4.20	23.0	16.0
CSBL1060-2R9M	2.90	4.45	5.15	20.0	14.0
CSBL1060-3R8M	3.80	5.89	6.77	17.0	12.0
CSBL1060-4R7M	4.70	7.08	8.15	16.0	10.8
CSBL1060-5R6M	5.60	9.23	10.6	14.0	9.60
CSBL1060-6R8M	6.80	10.9	12.5	13.0	8.70
CSBL1060-8R2M	8.20	13.6	15.6	11.0	7.80
CSBL1060-100M	10.0	16.3	18.7	10.0	6.20
CSBL1060-150M	15.0	20.9	24.0	8.70	5.60
CSBL1060-220M	22.0	31.6	36.3	6.50	4.50
CSBL1060-270M	27.0	42.2	48.5	5.80	4.00

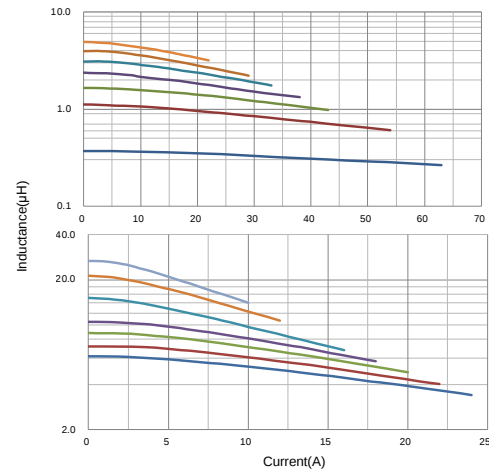
■ All data is tested based on 25°C ambient temperature.

※1 Inductance measure condition at 100kHz, 0.5V.

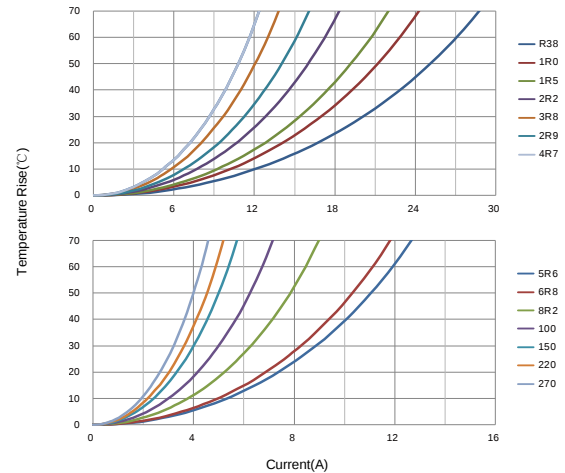
※2 Saturation current: the actual value of DC current when the inductance decrease 30% of its initial value.

※3 Temperature rise current: the actual value of DC current when the temperature rise is ΔT50°C (Ta=25°C).

Saturation Current Curve



Temperature Rise Current Curve



AEC-Q200

CSBL1235



Operating temperature range: -50°C ~ +150°C

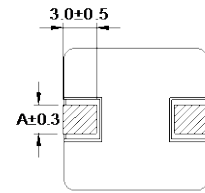
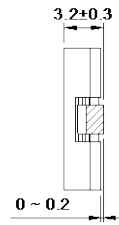
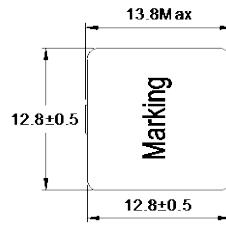
Construction



Wire



Appearance and Dimensions (mm)

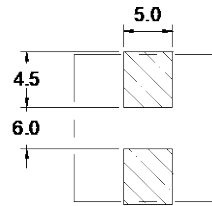


Inductance	0.25-3.30μH	4.70-5.60μH
A(mm)	2.50	2.00

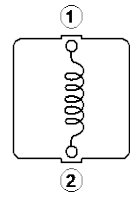
Marking



Reference Land Pattern (mm)



Schematic



Electrical Characteristics

Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typ.	Max.	Typ.	Typ.
CSBL1235-R25M	0.25	0.78	0.90	50.0	24.0
CSBL1235-R68M	0.68	1.60	1.82	40.0	22.0
CSBL1235-1R2M	1.20	2.90	3.35	28.0	17.0
CSBL1235-2R2M	2.20	5.70	6.55	18.0	14.0
CSBL1235-3R3M	3.30	8.20	9.45	14.0	12.0
CSBL1235-4R7M	4.70	11.7	13.5	12.5	9.00
CSBL1235-5R6M	5.60	19.0	21.9	11.0	6.80

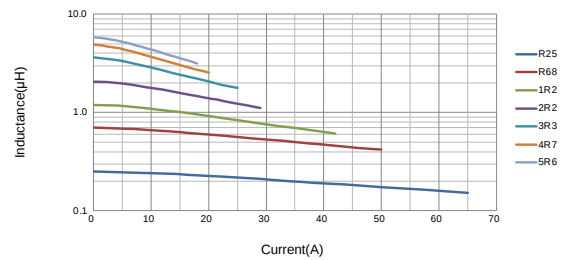
■ All data is tested based on 25°C ambient temperature.

※1 Inductance measure condition at 100kHz, 0.5V.

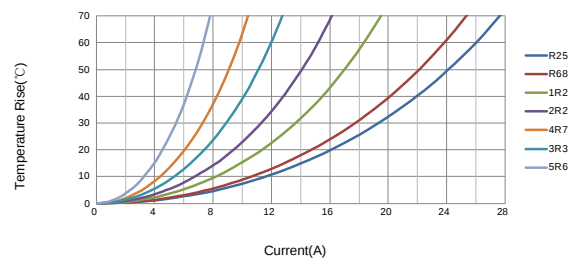
※2 Saturation current: the actual value of DC current when the inductance decrease 30% of its initial value.

※3 Temperature rise current: the actual value of DC current when the temperature rise is ΔT50°C (Ta=25°C).

Saturation Current Curve

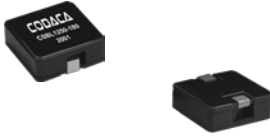


Temperature Rise Current Curve



AEC-Q200

CSBL1250



Operating temperature range: -50°C ~ +150°C

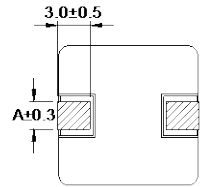
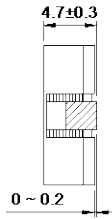
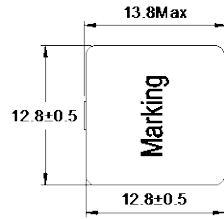
Construction



Wire



Appearance and Dimensions (mm)

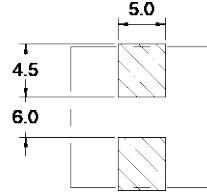


Inductance	0.19-15.0μH	18.0-22.0μH
A(mm)	2.50	2.00

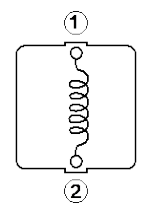
Marking



Reference Land Pattern (mm)



Schematic



Electrical Characteristics

Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typ.	Max.	Typ.	Typ.
CSBL1250-R19M	0.19	0.48	0.55	70.0	32.0
CSBL1250-R45M	0.45	0.90	1.05	55.0	26.0
CSBL1250-R82M	0.82	1.60	1.85	42.0	24.0
CSBL1250-1R0M	1.00	1.43	1.65	35.0	25.0
CSBL1250-1R6M	1.60	2.30	2.65	27.0	22.0
CSBL1250-2R2M	2.20	3.37	3.88	23.0	18.0
CSBL1250-3R3M	3.30	4.64	5.35	19.0	16.5
CSBL1250-4R5M	4.50	6.46	7.50	17.0	14.0
CSBL1250-5R6M	5.60	8.00	9.20	15.0	12.0
CSBL1250-6R8M	6.80	10.3	11.8	13.0	10.3
CSBL1250-8R2M	8.20	10.3	11.8	11.0	10.3
CSBL1250-100M	10.0	13.5	15.5	10.0	8.80
CSBL1250-130M	13.0	16.9	19.5	8.80	7.50
CSBL1250-150M	15.0	21.4	24.6	8.00	6.50
CSBL1250-180M	18.0	27.4	31.5	7.50	5.50
CSBL1250-220M	22.0	34.4	39.6	6.50	4.70

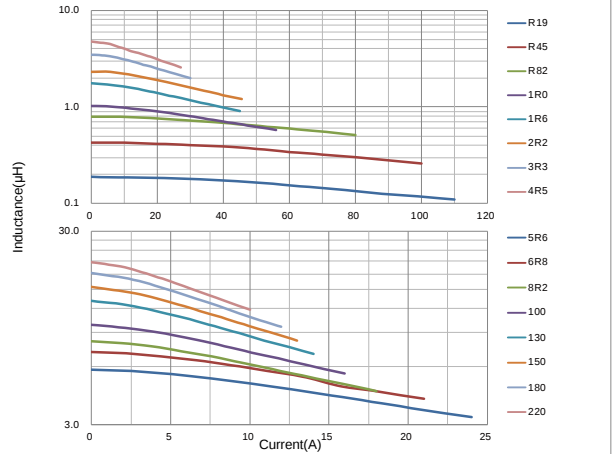
■ All data is tested based on 25°C ambient temperature.

※1 Inductance measure condition at 100kHz, 0.5V.

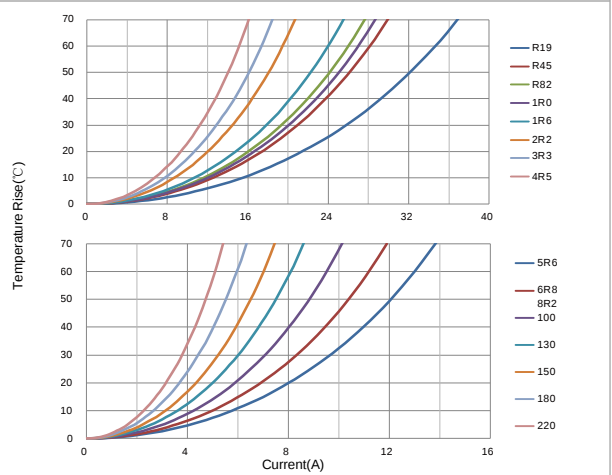
※2 Saturation current: the actual value of DC current when the inductance decrease 30% of its initial value.

※3 Temperature rise current: the actual value of DC current when the temperature rise is ΔT50°C (Ta=25°C).

Saturation Current Curve



Temperature Rise Current Curve



AEC-Q200

CSBL1265



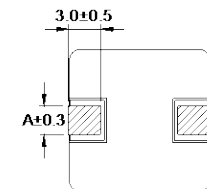
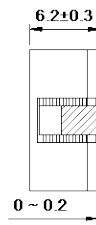
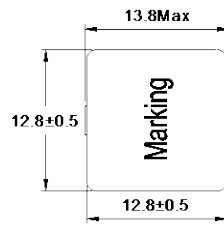
Operating temperature range: -50°C ~ +150°C

Construction

Wire



Appearance and Dimensions (mm)

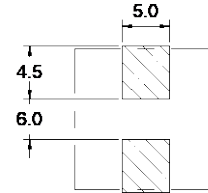


Inductance	0.20-33.0μH	39.0-47.0μH
A(mm)	2.50	2.00

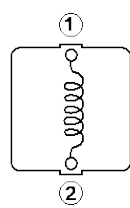
Marking



Reference Land Pattern (mm)



Schematic



Electrical Characteristics

Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typ.	Max.	Typ.	Typ.
CSBL1265-R20M	0.20	0.32	0.37	70.0	36.0
CSBL1265-R47M	0.47	0.65	0.75	55.0	32.0
CSBL1265-R85M	0.85	0.90	1.05	50.0	26.0
CSBL1265-1R3M	1.30	1.69	1.95	35.0	25.0
CSBL1265-2R0M	2.00	2.25	2.60	30.0	23.0
CSBL1265-2R7M	2.70	3.25	3.75	28.0	20.0
CSBL1265-3R6M	3.60	4.20	4.85	24.0	17.0
CSBL1265-4R7M	4.70	5.42	6.25	21.0	14.0
CSBL1265-5R8M	5.80	6.93	7.97	18.0	12.0
CSBL1265-7R3M	7.30	5.68	6.50	13.0	13.0
CSBL1265-9R2M	9.20	7.24	8.35	12.0	12.0
CSBL1265-110M	11.0	8.87	10.2	11.0	11.0
CSBL1265-130M	13.0	10.2	11.7	10.0	10.0
CSBL1265-150M	15.0	12.3	14.1	9.50	9.00
CSBL1265-180M	18.0	15.2	17.5	8.50	8.50
CSBL1265-220M	22.0	18.6	21.5	8.00	8.00
CSBL1265-270M	27.0	23.9	27.5	6.50	6.50
CSBL1265-330M	33.0	26.3	30.3	6.00	5.50
CSBL1265-390M	39.0	40.3	46.5	5.70	4.50
CSBL1265-470M	47.0	54.5	62.7	5.00	4.00

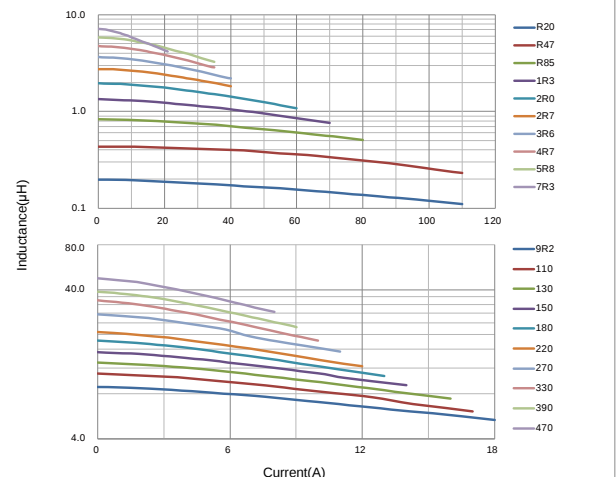
■ All data is tested based on 25°C ambient temperature.

※1 Inductance measure condition at 100kHz, 0.5V.

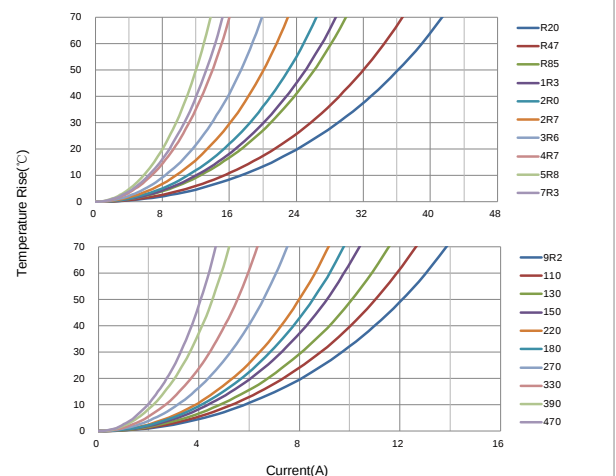
※2 Saturation current: the actual value of DC current when the inductance decrease 30% of its initial value.

※3 Temperature rise current: the actual value of DC current when the temperature rise is ΔT50°C (Ta=25°C).

Saturation Current Curve



Temperature Rise Current Curve



AEC-Q200 CSBL1275



Operating temperature range: -50°C ~ +150°C

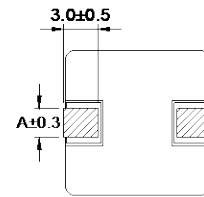
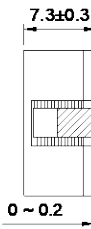
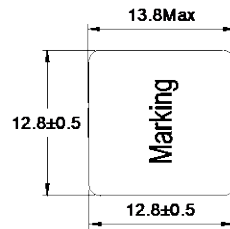
Construction



Wire



Appearance and Dimensions (mm)

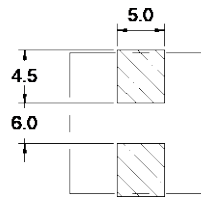


Inductance	0.60-39.0μH	47.0-56.0μH
A(mm)	2.50	2.00

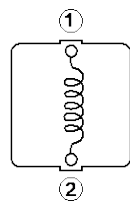
Marking



Reference Land Pattern (mm)



Schematic



Electrical Characteristics

Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typ.	Max.	Typ.	Typ.
CSBL1275-R60M	0.60	0.48	0.55	60.0	36.0
CSBL1275-1R0M	1.00	0.84	1.00	50.0	32.0
CSBL1275-1R5M	1.50	1.40	1.61	42.0	28.0
CSBL1275-2R2M	2.20	2.10	2.45	36.0	24.0
CSBL1275-3R3M	3.30	2.70	3.10	30.0	22.0
CSBL1275-4R7M	4.70	3.68	4.25	25.0	19.0
CSBL1275-5R6M	5.60	4.60	5.29	22.0	17.0
CSBL1275-6R8M	6.80	6.05	6.95	20.0	14.0
CSBL1275-8R2M	8.20	7.03	8.10	18.0	12.0
CSBL1275-100M	10.0	8.77	10.1	16.0	11.0
CSBL1275-120M	12.0	10.2	11.7	13.0	10.0
CSBL1275-150M	15.0	12.0	13.8	11.0	9.30
CSBL1275-180M	18.0	14.5	16.7	10.0	8.50
CSBL1275-220M	22.0	15.5	17.8	9.50	8.00
CSBL1275-270M	27.0	23.0	26.5	8.50	7.00
CSBL1275-330M	33.0	28.3	32.5	8.00	6.00
CSBL1275-390M	39.0	31.3	36.0	6.80	5.50
CSBL1275-470M	47.0	40.0	46.0	6.00	5.00
CSBL1275-560M	56.0	60.0	69.0	5.70	4.00

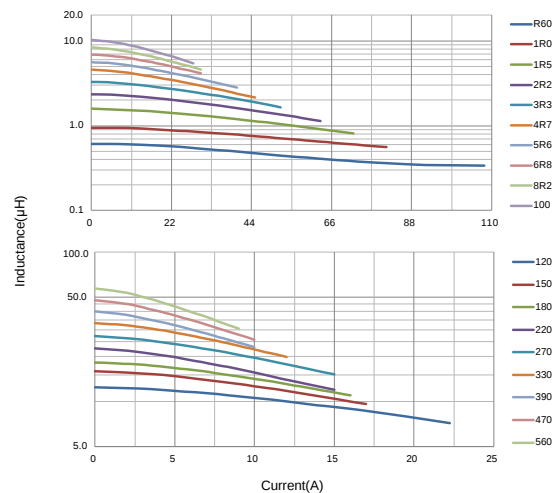
■ All data is tested based on 25°C ambient temperature.

※1 Inductance measure condition at 100kHz, 0.5V.

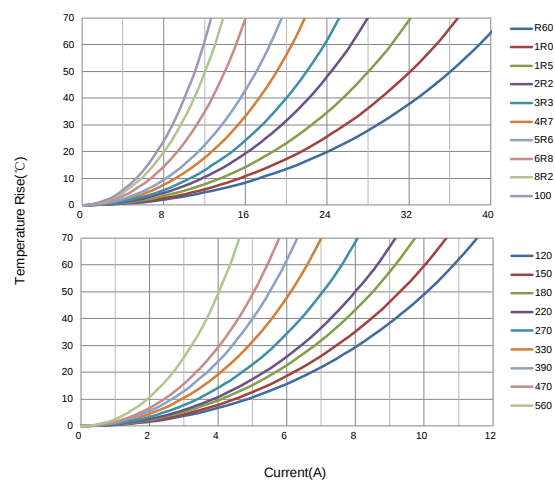
※2 Saturation current: the actual value of DC current when the inductance decrease 30% of its initial value.

※3 Temperature rise current: the actual value of DC current when the temperature rise is ΔT50°C (Ta=25°C).

Saturation Current Curve



Temperature Rise Current Curve



AEC-Q200

CSBL1670



Operating temperature range: -50°C ~ +150°C

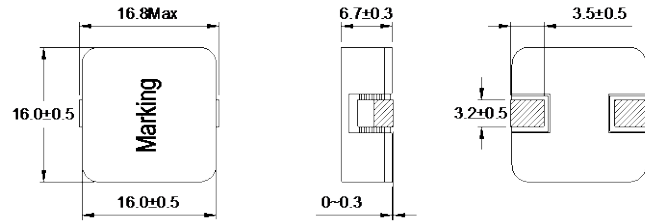
Construction



Wire



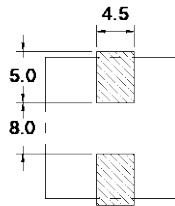
Appearance and Dimensions (mm)



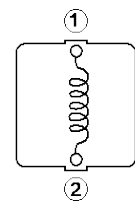
Marking



Reference Land Pattern (mm)



Schematic



Electrical Characteristics

Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typ.	Max.	Typ.	Typ.
CSBL1670-1R0M	1.00	0.89	1.05	45.5	33.0
CSBL1670-1R5M	1.50	1.35	1.55	40.0	30.0
CSBL1670-2R2M	2.20	1.90	2.20	32.0	25.0
CSBL1670-3R3M	3.30	2.68	3.10	28.0	23.0
CSBL1670-4R7M	4.70	3.46	4.00	23.0	20.0
CSBL1670-5R6M	5.60	4.50	5.20	21.0	18.0
CSBL1670-6R5M	6.50	5.48	6.30	20.0	16.0
CSBL1670-8R2M	8.20	7.15	8.22	18.0	15.0
CSBL1670-100M	10.0	8.70	10.0	16.0	13.0
CSBL1670-150M	15.0	12.3	14.2	12.5	11.0
CSBL1670-220M	22.0	20.3	23.5	10.5	8.50

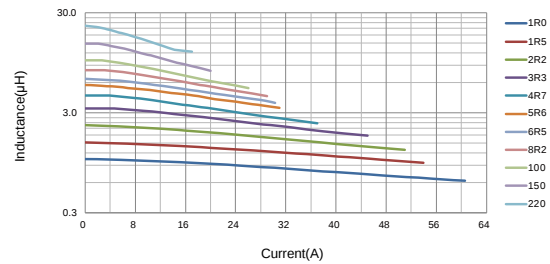
■ All data is tested based on 25°C ambient temperature.

※1 Inductance measure condition at 100kHz, 0.5V.

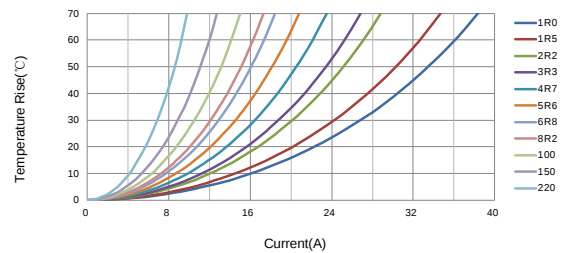
※2 Saturation current: the actual value of DC current when the inductance decrease 30% of its initial value.

※3 Temperature rise current: the actual value of DC current when the temperature rise is ΔT50°C (Ta=25°C).

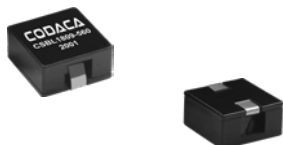
Saturation Current Curve



Temperature Rise Current Curve



AEC-Q200 CSBL1809



Operating temperature range: -50°C ~ +150°C

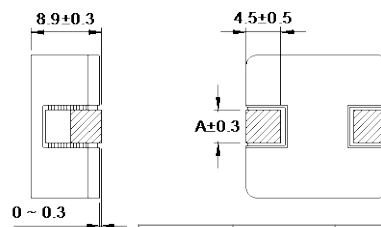
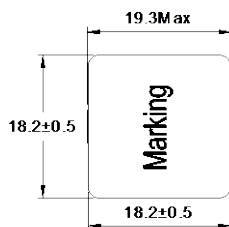
Construction



Wire



Appearance and Dimensions (mm)

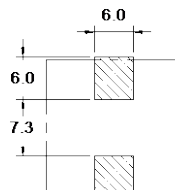


Inductance	0.82-15.0μH	22.0μH	33.0-56.0μH
A(mm)	4.00	3.50	3.20

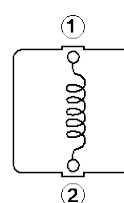
Marking



Reference Land Pattern (mm)



Schematic



Electrical Characteristics

Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typ.	Max.	Typ.	Typ.
CSBL1809-R82M	0.82	0.54	0.62	70.0	41.5
CSBL1809-1R3M	1.30	0.85	1.00	67.0	36.0
CSBL1809-2R0M	2.00	1.20	1.38	57.0	32.5
CSBL1809-2R7M	2.70	1.58	1.82	50.0	31.5
CSBL1809-3R6M	3.60	2.20	2.60	43.0	25.0
CSBL1809-4R7M	4.70	2.85	3.40	39.0	22.5
CSBL1809-5R6M	5.60	3.18	3.70	35.0	21.0
CSBL1809-6R8M	6.80	4.10	4.70	31.0	18.5
CSBL1809-8R5M	8.50	4.82	5.55	28.0	18.0
CSBL1809-100M	10.0	6.00	6.90	24.0	16.0
CSBL1809-150M	15.0	8.20	9.43	19.0	14.0
CSBL1809-220M	22.0	12.1	14.1	14.0	11.0
CSBL1809-330M	33.0	20.0	23.0	11.0	8.50
CSBL1809-470M	47.0	33.7	38.8	9.40	6.80
CSBL1809-560M	56.0	35.8	41.2	8.50	6.50

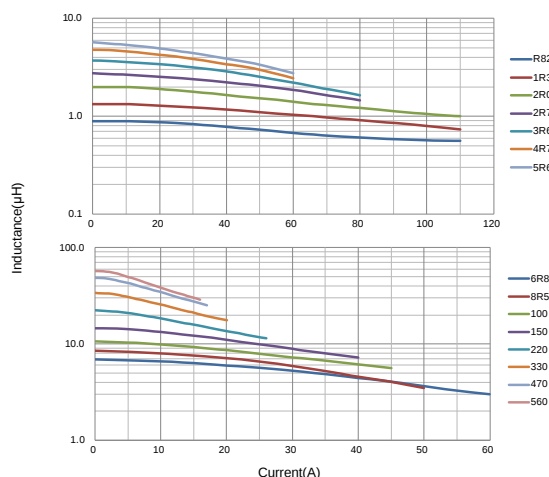
■ All data is tested based on 25°C ambient temperature.

※1 Inductance measure condition at 100kHz, 0.5V.

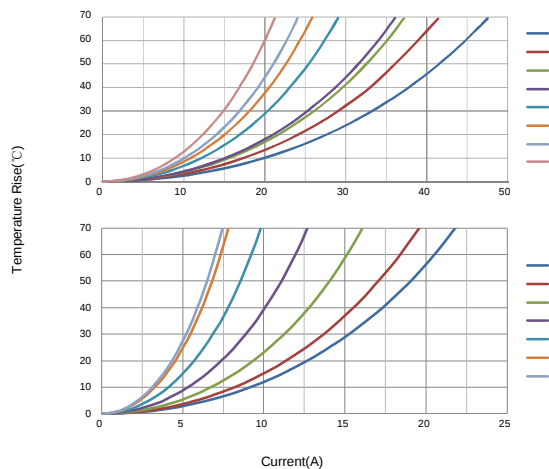
※2 Saturation current: the actual value of DC current when the inductance decrease 30% of its initial value.

※3 Temperature rise current: the actual value of DC current when the temperature rise is ΔT50°C (Ta=25°C).

Saturation Current Curve



Temperature Rise Current Curve



AEC-Q200

CSBL2212



Operating temperature range: -50°C ~ +150°C

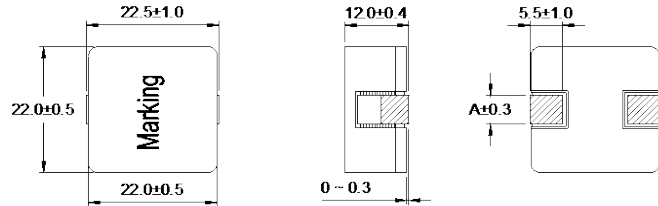
Construction



Wire



Appearance and Dimensions (mm)

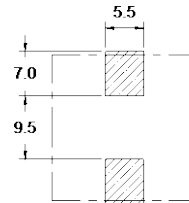


Inductance	3.30~33.0μH	39.0~56.0μH	68.0~100μH
A(mm)	4.00	3.50	3.20

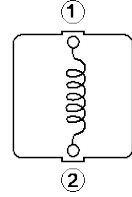
Marking



Reference Land Pattern (mm)



Schematic



Electrical Characteristics

Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typ.	Max.	Typ.	Typ.
CSBL2212-3R3M	3.30	1.03	1.20	50.0	32.0
CSBL2212-4R7M	4.70	1.52	1.75	42.0	30.0
CSBL2212-6R8M	6.80	2.33	2.70	38.0	26.0
CSBL2212-8R2M	8.20	2.78	3.20	34.0	24.0
CSBL2212-100M	10.0	3.37	3.88	31.0	21.0
CSBL2212-120M	12.0	4.17	4.80	28.0	19.5
CSBL2212-150M	15.0	4.73	5.45	26.0	18.0
CSBL2212-220M	22.0	7.15	8.25	21.0	15.0
CSBL2212-330M	33.0	11.6	13.5	18.0	11.5
CSBL2212-390M	39.0	17.2	19.8	16.0	9.50
CSBL2212-470M	47.0	18.6	21.4	15.0	9.00
CSBL2212-560M	56.0	20.2	23.3	13.0	8.20
CSBL2212-680M	68.0	26.3	30.3	12.5	7.50
CSBL2212-820M	82.0	29.3	33.7	10.0	7.00
CSBL2212-101M	100.0	35.5	40.8	9.00	6.10

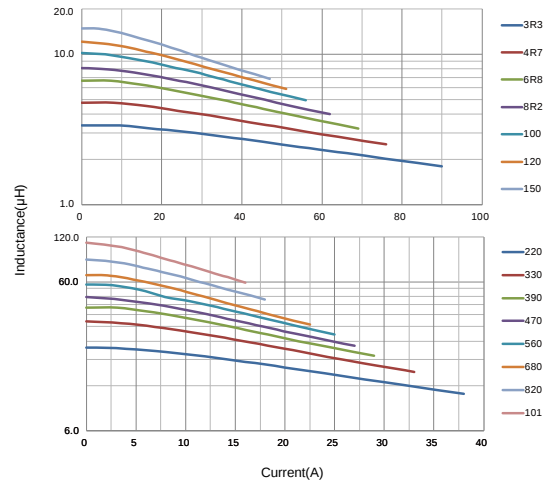
■ All data is tested based on 25°C ambient temperature.

※1 Inductance measure condition at 100kHz, 0.5V.

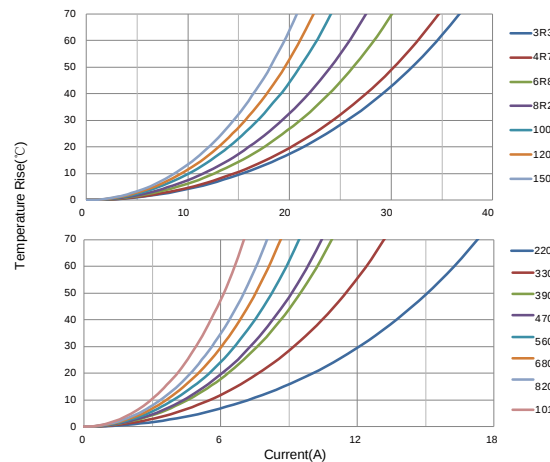
※2 Saturation current: the actual value of DC current when the inductance decrease 30% of its initial value.

※3 Temperature rise current: the actual value of DC current when the temperature rise is ΔT50°C (Ta=25°C).

Saturation Current Curve



Temperature Rise Current Curve



AEC-Q200

CSBX0630



Operating temperature range: -50°C ~ +150°C

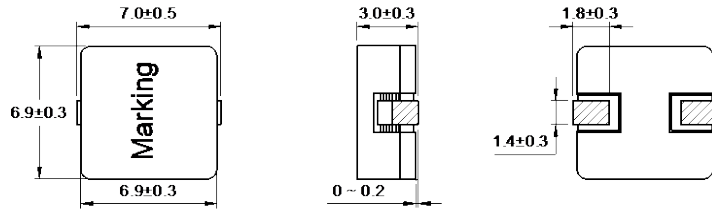
Construction



Wire



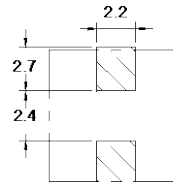
Appearance and Dimensions (mm)



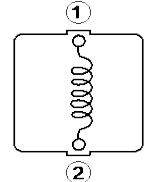
Marking



Reference Land Pattern (mm)



Schematic



Electrical Characteristics

Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typ.	Max.	Typ.	Typ.
CSBX0630-R10M	0.10	0.78	0.90	70.0	23.0
CSBX0630-R22M	0.22	1.58	1.82	48.0	19.0
CSBX0630-R47M	0.47	3.40	3.91	34.0	14.5
CSBX0630-1R0M	1.00	5.63	6.50	18.5	11.5
CSBX0630-1R5M	1.50	7.90	9.10	15.0	8.70
CSBX0630-2R2M	2.20	10.8	12.4	12.0	7.80

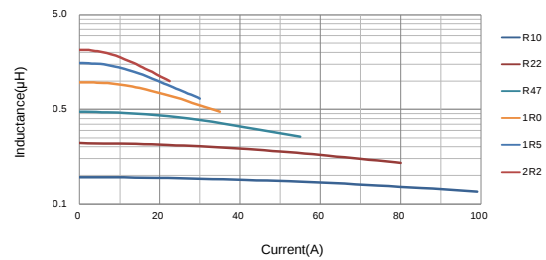
■ All data is tested based on 25°C ambient temperature.

※1 Inductance measure condition at 100kHz, 0.5V.

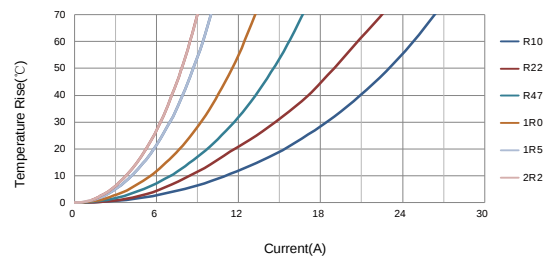
※2 Saturation current: the actual value of DC current when the inductance decrease 30% of its initial value.

※3 Temperature rise current: the actual value of DC current when the temperature rise is ΔT50°C (Ta=25°C).

Saturation Current Curve

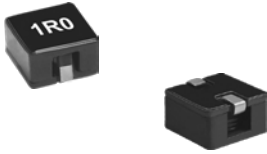


Temperature Rise Current Curve



AEC-Q200

CSBX0640



Operating temperature range: -50°C ~ +150°C

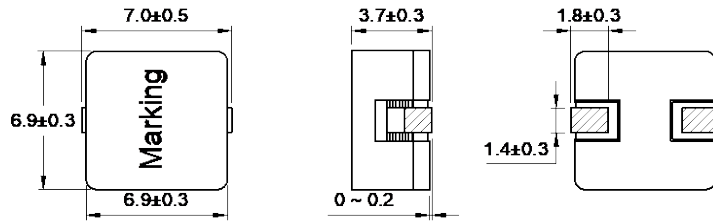
Construction



Wire



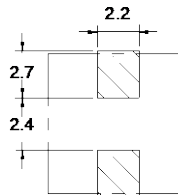
Appearance and Dimensions (mm)



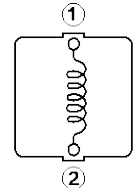
Marking



Reference Land Pattern (mm)



Schematic



Electrical Characteristics

Part No.	Inductance (μ H)※1	D.C.R. (m Ω)		Saturation current (A)※2	Temperature rise current (A)※3
	$\pm 20\%$	Typ.	Max.	Typ.	Typ.
CSBX0640-R24M	0.24	1.00	1.20	45.0	21.0
CSBX0640-R47M	0.47	1.66	1.90	35.0	19.0
CSBX0640-R68M	0.68	2.72	3.20	30.0	17.5
CSBX0640-1R0M	1.00	3.90	4.50	24.0	15.5
CSBX0640-1R5M	1.50	5.40	6.20	18.0	11.5
CSBX0640-2R2M	2.20	10.5	12.1	16.0	9.00
CSBX0640-3R5M	3.50	15.0	17.3	14.0	6.80
CSBX0640-4R7M	4.70	18.4	21.2	11.0	6.40
CSBX0640-5R6M	5.60	20.1	23.0	9.50	5.50
CSBX0640-6R5M	6.50	31.5	36.2	8.20	4.60

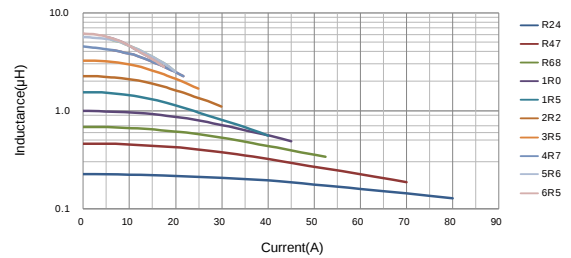
■ All data is tested based on 25°C ambient temperature.

※1 Inductance measure condition at 100kHz, 0.5V.

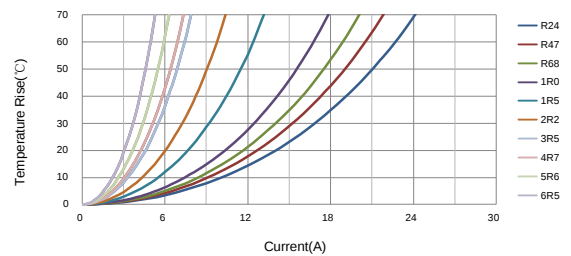
※2 Saturation current: the actual value of DC current when the inductance decrease 30% of its initial value.

※3 Temperature rise current: the actual value of DC current when the temperature rise is $\Delta T 50^{\circ}\text{C}$ ($T_a = 25^{\circ}\text{C}$).

Saturation Current Curve



Temperature Rise Current Curve



AEC-Q200

CSBX0650



Operating temperature range: -50°C ~ +150°C

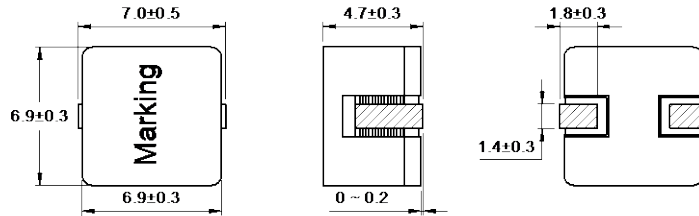
Construction



Wire



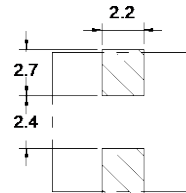
Appearance and Dimensions (mm)



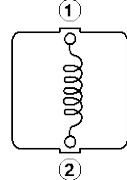
Marking



Reference Land Pattern (mm)



Schematic



Electrical Characteristics

Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typ.	Max.	Typ.	Typ.
CSBX0650-R25M	0.25	0.88	1.00	60.0	21.0
CSBX0650-R47M	0.47	1.36	1.56	39.0	18.0
CSBX0650-1R0M	1.00	3.55	4.10	27.0	15.0
CSBX0650-1R5M	1.50	4.10	4.75	22.5	13.5
CSBX0650-2R0M	2.00	5.57	6.40	19.5	11.8
CSBX0650-2R7M	2.70	7.10	8.20	16.5	10.3
CSBX0650-3R3M	3.30	8.50	9.80	15.3	9.00
CSBX0650-3R9M	3.90	12.3	14.2	14.0	8.00
CSBX0650-4R7M	4.70	14.8	17.0	12.7	6.50
CSBX0650-5R6M	5.60	19.2	22.1	11.4	6.20
CSBX0650-6R8M	6.80	20.5	23.6	10.3	6.00
CSBX0650-7R6M	7.60	20.5	23.6	8.30	6.00
CSBX0650-8R8M	8.80	21.6	24.9	7.90	4.80
CSBX0650-100M	10.0	26.5	30.5	7.40	4.40
CSBX0650-130M	13.0	38.6	44.4	6.50	3.10

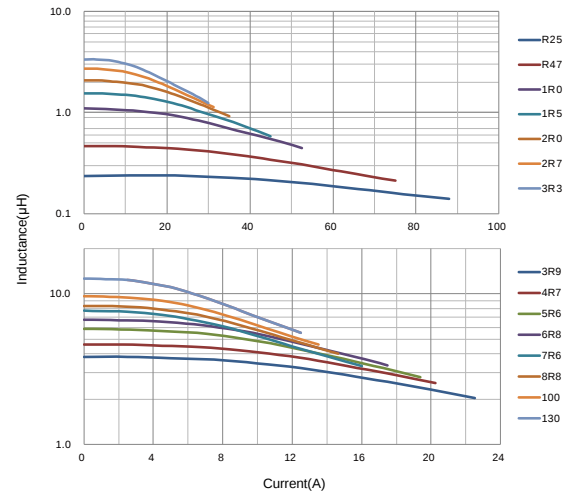
■ All data is tested based on 25°C ambient temperature.

※1 Inductance measure condition at 100kHz, 0.5V.

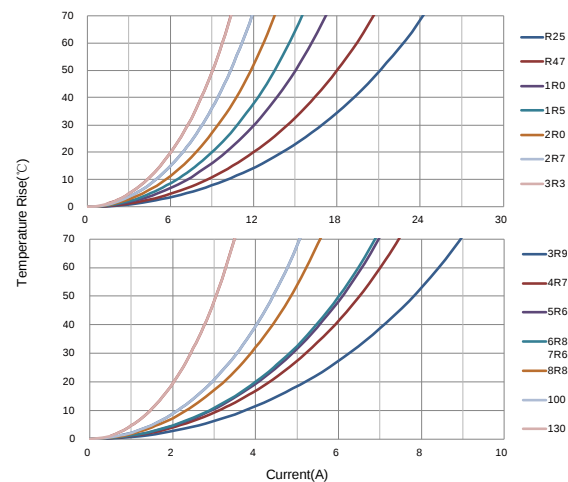
※2 Saturation current: the actual value of DC current when the inductance decrease 30% of its initial value.

※3 Temperature rise current: the actual value of DC current when the temperature rise is ΔT50°C (Ta=25°C).

Saturation Current Curve



Temperature Rise Current Curve



AEC-Q200

CSBX1030



Operating temperature range: -50°C ~ +150°C

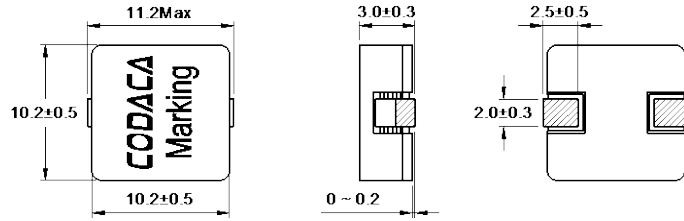
Construction



Wire



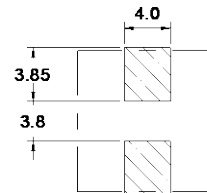
Appearance and Dimensions (mm)



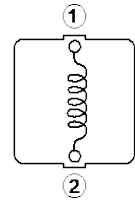
Marking



Reference Land Pattern (mm)



Schematic



Electrical Characteristics

Part No.	Inductance (μ H)※1	D.C.R. (m Ω)		Saturation current (A)※2	Temperature rise current (A)※3
	$\pm 20\%$	Typ.	Max.	Typ.	Typ.
CSBX1030-R20M	0.20	0.82	0.95	65.0	22.0
CSBX1030-R47M	0.47	2.15	2.50	40.0	18.0
CSBX1030-1R0M	1.00	4.08	4.70	25.0	15.0
CSBX1030-1R5M	1.50	6.58	7.60	22.0	12.0
CSBX1030-2R2M	2.20	11.5	13.3	18.0	9.00
CSBX1030-2R5M	2.50	11.5	13.3	15.0	9.00

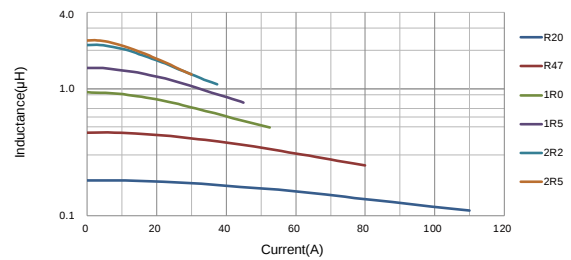
■ All data is tested based on 25°C ambient temperature.

※1 Inductance measure condition at 100kHz, 0.5V.

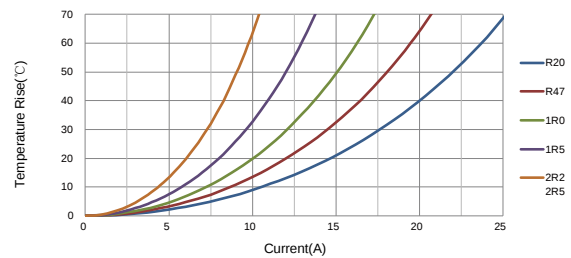
※2 Saturation current: the actual value of DC current when the inductance decrease 30% of its initial value.

※3 Temperature rise current: the actual value of DC current when the temperature rise is $\Delta T50^\circ\text{C}$ ($T_a=25^\circ\text{C}$).

Saturation Current Curve



Temperature Rise Current Curve



AEC-Q200

CSBX1040



Operating temperature range: -50°C ~ +150°C

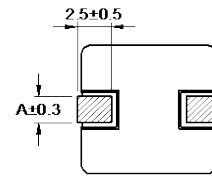
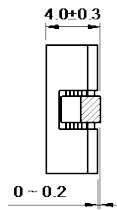
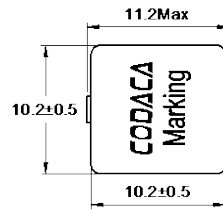
Construction



Wire



Appearance and Dimensions (mm)

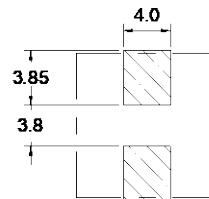


Inductance	0.18~0.66μH	1.00~6.80μH
A(mm)	2.50	2.00

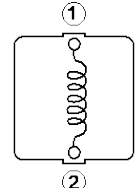
Marking



Reference Land Pattern (mm)



Schematic



Electrical Characteristics

Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typ.	Max.	Typ.	Typ.
CSBX1040-R18M	0.18	0.61	0.70	80.0	30.0
CSBX1040-R38M	0.38	1.11	1.28	65.0	22.0
CSBX1040-R66M	0.66	1.84	2.20	50.0	18.0
CSBX1040-1R0M	1.00	3.01	3.50	41.0	16.0
CSBX1040-1R5M	1.50	4.64	5.50	33.0	14.0
CSBX1040-2R2M	2.20	6.90	7.90	28.0	11.0
CSBX1040-2R7M	2.70	6.90	7.90	22.0	11.0
CSBX1040-3R5M	3.50	8.65	10.0	19.0	9.50
CSBX1040-4R5M	4.50	11.3	13.0	16.0	8.00
CSBX1040-5R6M	5.60	13.7	15.8	14.5	7.20
CSBX1040-6R8M	6.80	20.5	23.6	13.0	5.60

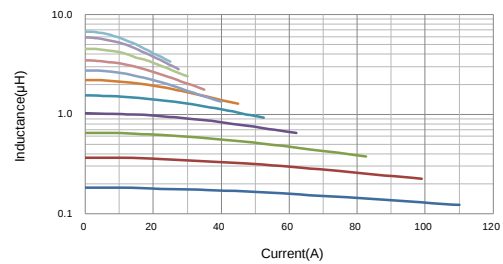
■ All data is tested based on 25°C ambient temperature.

※1 Inductance measure condition at 100kHz, 0.5V.

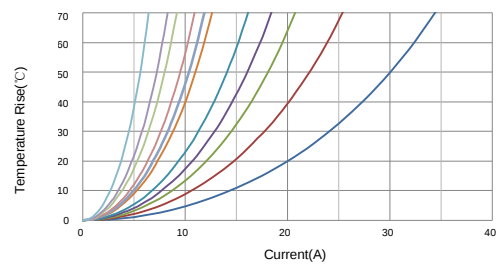
※2 Saturation current: the actual value of DC current when the inductance decrease 30% of its initial value.

※3 Temperature rise current: the actual value of DC current when the temperature rise is ΔT50°C (Ta=25°C).

Saturation Current Curve



Temperature Rise Current Curve



AEC-Q200

CSBX1050



Operating temperature range: -50°C ~ +150°C

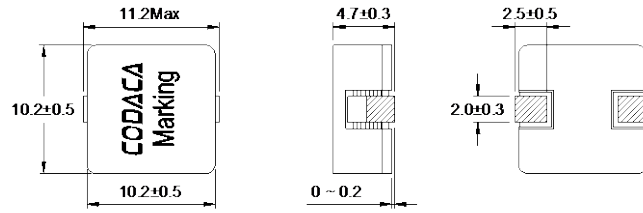
Construction



Wire



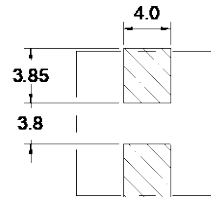
Appearance and Dimensions (mm)



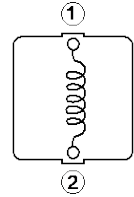
Marking



Reference Land Pattern (mm)



Schematic



Electrical Characteristics

Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typ.	Max.	Typ.	Typ.
CSBX1050-R18M	0.18	0.45	0.55	80.0	32.0
CSBX1050-R39M	0.39	0.67	0.77	55.0	24.0
CSBX1050-R82M	0.82	1.26	1.50	36.0	23.0
CSBX1050-1R2M	1.20	2.05	2.35	32.0	19.0
CSBX1050-1R8M	1.80	2.98	3.45	27.0	17.0
CSBX1050-2R5M	2.50	4.06	4.70	23.0	15.0
CSBX1050-3R3M	3.30	5.37	6.50	19.0	13.0
CSBX1050-4R2M	4.20	7.11	8.50	17.0	11.0
CSBX1050-5R6M	5.60	8.62	9.90	14.0	10.3
CSBX1050-6R8M	6.80	10.5	12.1	12.5	9.00
CSBX1050-8R2M	8.20	13.1	15.1	11.5	8.10
CSBX1050-100M	10.0	16.4	18.9	10.2	7.10
CSBX1050-150M	15.0	25.9	29.8	8.75	5.50
CSBX1050-180M	18.0	34.7	39.9	8.30	5.00

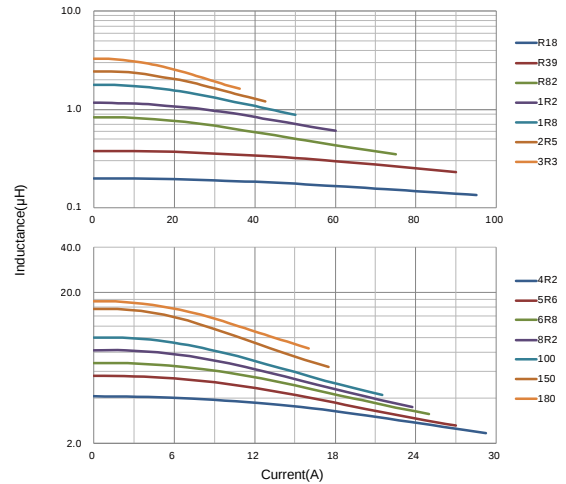
■ All data is tested based on 25°C ambient temperature.

※1 Inductance measure condition at 100kHz, 0.5V.

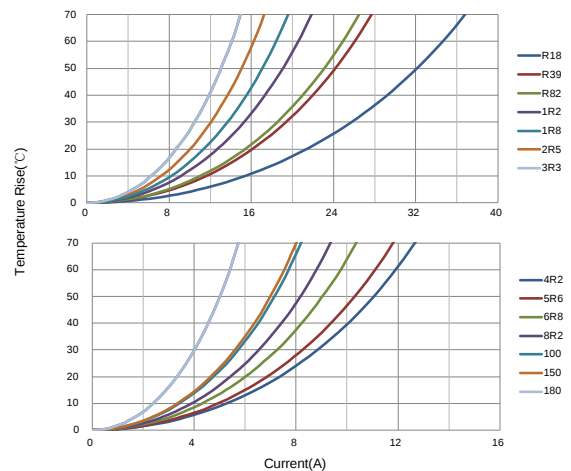
※2 Saturation current: the actual value of DC current when the inductance decrease 30% of its initial value.

※3 Temperature rise current: the actual value of DC current when the temperature rise is ΔT50°C (Ta=25°C).

Saturation Current Curve



Temperature Rise Current Curve



AEC-Q200 CSBX1060



Operating temperature range: -50°C ~ +150°C

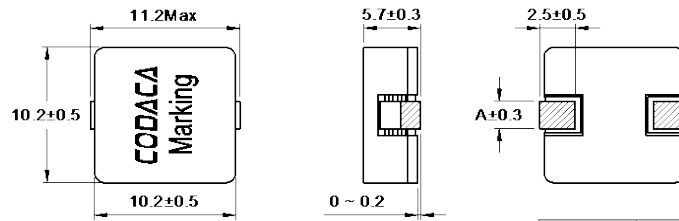
Construction



Wire



Appearance and Dimensions (mm)

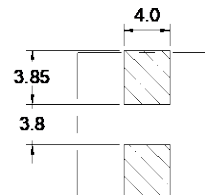


Inductance	0.38~2.20μH	2.90~27.0μH
A(mm)	2.50	2.00

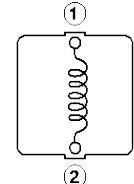
Marking



Reference Land Pattern (mm)



Schematic



Electrical Characteristics

Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typ.	Max.	Typ.	Typ.
CSBX1060-R38M	0.38	0.67	0.77	70.0	25.0
CSBX1060-1R0M	1.00	1.65	1.90	40.0	21.0
CSBX1060-1R5M	1.50	2.47	2.85	34.0	19.0
CSBX1060-2R2M	2.20	3.60	4.20	29.0	16.0
CSBX1060-2R9M	2.90	4.45	5.15	26.0	14.0
CSBX1060-3R8M	3.80	5.89	6.77	22.0	12.0
CSBX1060-4R7M	4.70	7.08	8.15	21.0	10.8
CSBX1060-5R6M	5.60	9.23	10.6	18.0	9.60
CSBX1060-6R8M	6.80	10.9	12.5	16.5	8.70
CSBX1060-8R2M	8.20	13.6	15.6	15.0	7.80
CSBX1060-100M	10.0	16.3	18.7	12.5	6.20
CSBX1060-150M	15.0	20.9	24.0	10.5	5.60
CSBX1060-220M	22.0	31.6	36.3	8.80	4.50
CSBX1060-270M	27.0	42.2	48.5	8.00	4.00

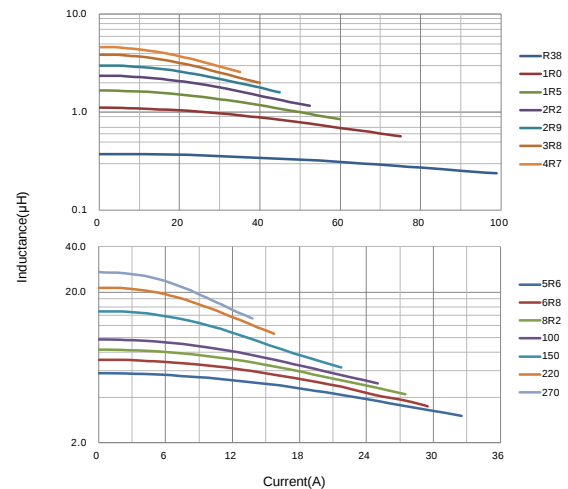
■ All data is tested based on 25°C ambient temperature.

※1 Inductance measure condition at 100kHz, 0.5V.

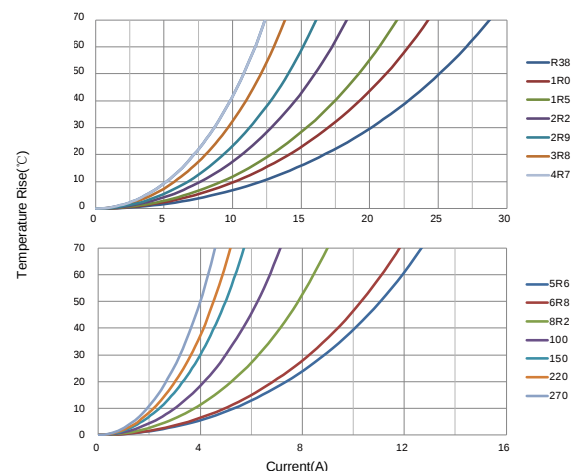
※2 Saturation current: the actual value of DC current when the inductance decrease 30% of its initial value.

※3 Temperature rise current: the actual value of DC current when the temperature rise is ΔT50°C (Ta=25°C).

Saturation Current Curve



Temperature Rise Current Curve



AEC-Q200

CSBX1235



Operating temperature range: -50°C ~ +150°C

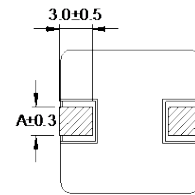
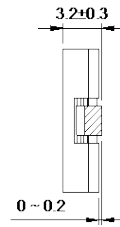
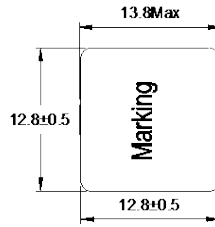
Construction



Wire



Appearance and Dimensions (mm)

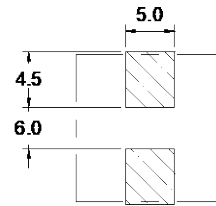


Inductance	0.25~3.30μH	4.70~5.60μH
A(mm)	2.50	2.00

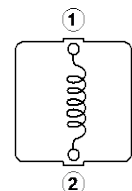
Marking



Reference Land Pattern (mm)



Schematic



Electrical Characteristics

Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typ.	Max.	Typ.	Typ.
CSBX1235-R25M	0.25	0.78	0.90	70.0	24.0
CSBX1235-R68M	0.68	1.60	1.82	45.0	22.0
CSBX1235-1R2M	1.20	2.90	3.35	32.0	17.0
CSBX1235-2R2M	2.20	5.70	6.55	22.0	14.0
CSBX1235-3R3M	3.30	8.20	9.45	18.0	12.0
CSBX1235-4R7M	4.70	11.7	13.5	15.2	9.00
CSBX1235-5R6M	5.60	19.0	21.9	14.5	6.80

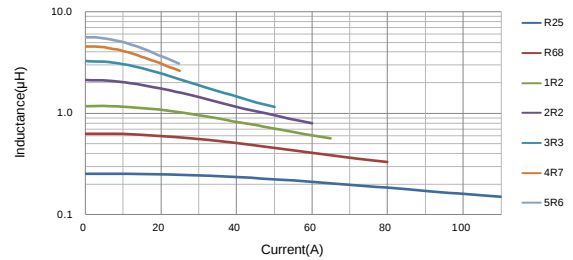
■ All data is tested based on 25°C ambient temperature.

※1 Inductance measure condition at 100kHz, 0.5V.

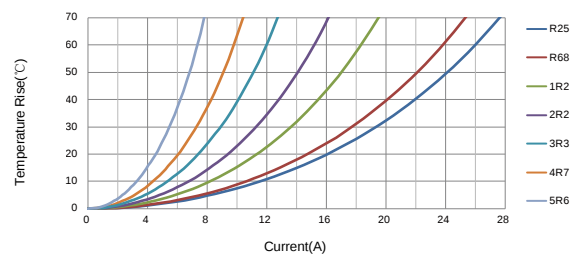
※2 Saturation current: the actual value of DC current when the inductance decrease 30% of its initial value.

※3 Temperature rise current: the actual value of DC current when the temperature rise is ΔT50°C (Ta=25°C).

Saturation Current Curve



Temperature Rise Current Curve



AEC-Q200

CSBX1250



Operating temperature range: -50°C ~ +150°C

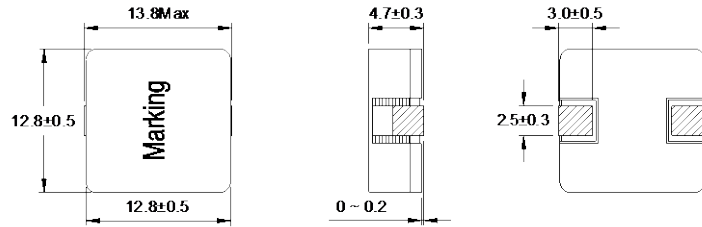
Construction



Wire



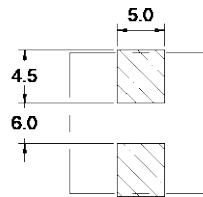
Appearance and Dimensions (mm)



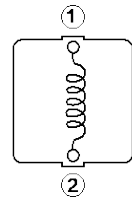
Marking



Reference Land Pattern (mm)



Schematic



Electrical Characteristics

Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typ.	Max.	Typ.	Typ.
CSBX1250-R19M	0.19	0.48	0.55	100	32.0
CSBX1250-R45M	0.45	0.90	1.05	72.0	26.0
CSBX1250-R82M	0.82	1.60	1.85	55.0	24.0
CSBX1250-1R0M	1.00	1.43	1.65	51.0	25.0
CSBX1250-1R6M	1.60	2.30	2.65	43.0	22.0
CSBX1250-2R2M	2.20	3.37	3.88	35.0	18.0
CSBX1250-3R3M	3.30	4.64	5.35	30.0	16.5
CSBX1250-4R5M	4.50	6.46	7.50	26.0	14.0
CSBX1250-5R6M	5.60	8.00	9.20	23.0	12.0
CSBX1250-6R8M	6.80	10.3	11.8	20.5	10.3
CSBX1250-8R2M	8.20	10.3	11.8	17.5	10.3
CSBX1250-100M	10.0	13.5	15.5	16.0	8.80

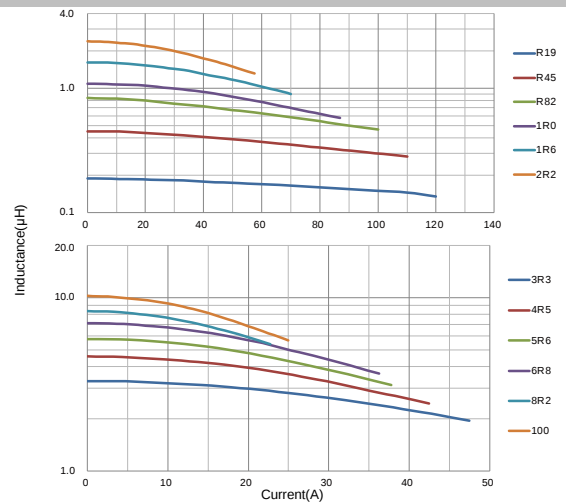
■ All data is tested based on 25°C ambient temperature.

※1 Inductance measure condition at 100kHz, 0.5V.

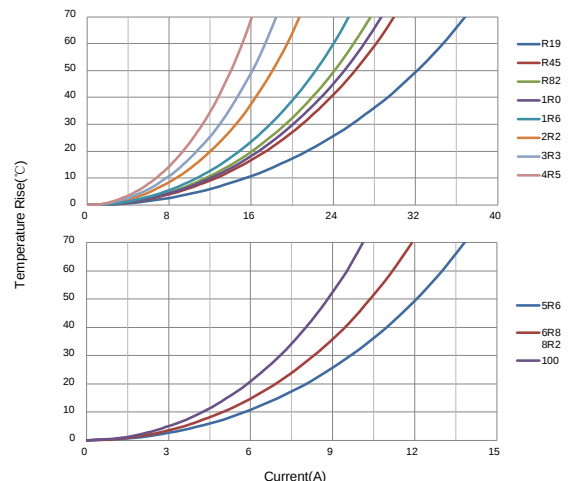
※2 Saturation current: the actual value of DC current when the inductance decrease 30% of its initial value.

※3 Temperature rise current: the actual value of DC current when the temperature rise is ΔT50°C (Ta=25°C).

Saturation Current Curve



Temperature Rise Current Curve



CSBX1265



Operating temperature range: -50°C ~ +150°C

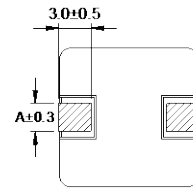
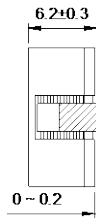
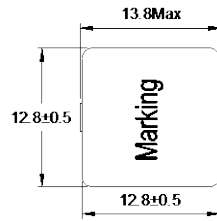
Construction



Wire



Appearance and Dimensions (mm)

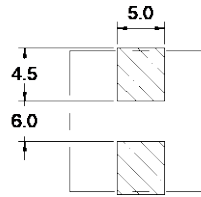


Inductance	0.20~33.0μH	39.0~47.00μH
A(mm)	2.50	2.00

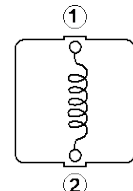
Marking



Reference Land Pattern (mm)



Schematic



Electrical Characteristics

Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typ.	Max.	Typ.	Typ.
CSBX1265-R20M	0.20	0.32	0.37	>110	36.0
CSBX1265-R47M	0.47	0.65	0.75	90.0	32.0
CSBX1265-R85M	0.85	0.90	1.05	63.0	26.0
CSBX1265-1R3M	1.30	1.69	1.95	50.0	25.0
CSBX1265-2R0M	2.00	2.25	2.60	41.0	23.0
CSBX1265-2R7M	2.70	3.25	3.75	35.0	20.0
CSBX1265-3R6M	3.60	4.20	4.85	30.0	17.0
CSBX1265-4R7M	4.70	5.42	6.25	27.0	14.0
CSBX1265-5R8M	5.80	6.93	7.97	24.0	12.0
CSBX1265-7R3M	7.30	5.68	6.50	18.5	13.0
CSBX1265-9R2M	9.20	7.24	8.35	16.3	12.0
CSBX1265-110M	11.0	8.87	10.2	15.0	11.0
CSBX1265-130M	13.0	10.2	11.7	13.5	10.0
CSBX1265-150M	15.0	12.3	14.1	12.5	9.00
CSBX1265-180M	18.0	15.2	17.5	11.2	8.50
CSBX1265-220M	22.0	18.6	21.5	10.7	8.00
CSBX1265-270M	27.0	23.9	27.5	9.50	6.50
CSBX1265-330M	33.0	26.3	30.3	8.80	5.50
CSBX1265-390M	39.0	40.3	46.5	8.00	4.50
CSBX1265-470M	47.0	54.5	62.7	7.20	4.00

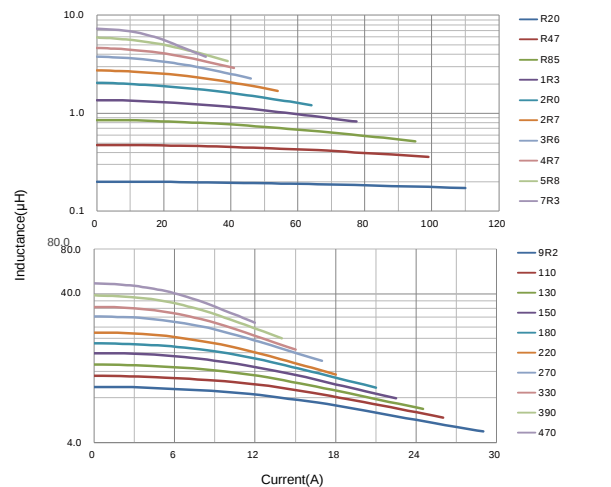
■ All data is tested based on 25°C ambient temperature.

※1 Inductance measure condition at 100kHz, 0.5V.

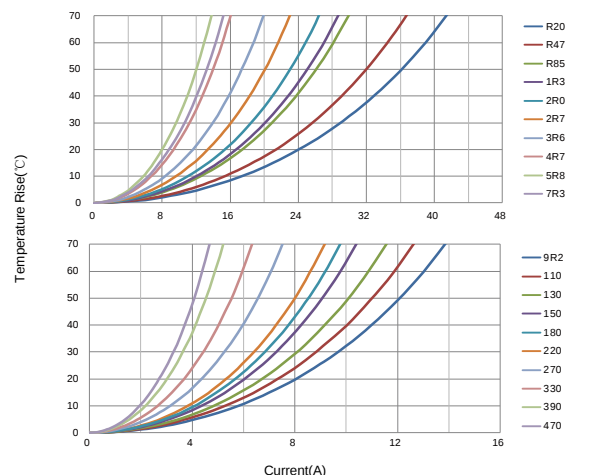
※2 Saturation current: the actual value of DC current when the inductance decrease 30% of its initial value.

※3 Temperature rise current: the actual value of DC current when the temperature rise is ΔT50°C (Ta=25°C).

Saturation Current Curve



Temperature Rise Current Curve



AEC-Q200

CSBX1275



Operating temperature range: -50°C ~ +150°C

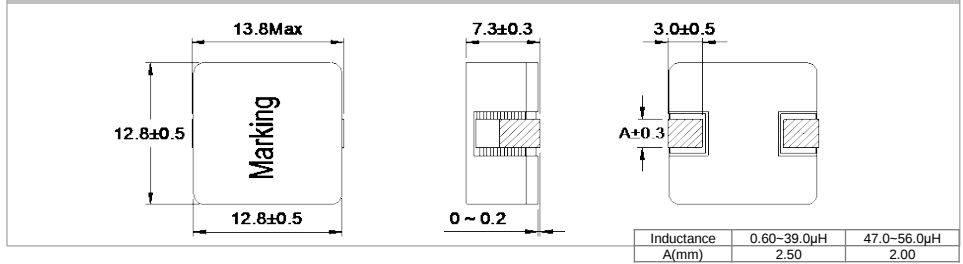
Construction



Wire



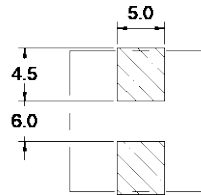
Appearance and Dimensions (mm)



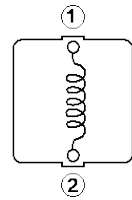
Marking



Reference Land Pattern (mm)



Schematic



Electrical Characteristics

Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typ.	Max.	Typ.	Typ.
CSBX1275-R60M	0.60	0.48	0.55	80.0	36.0
CSBX1275-1R0M	1.00	0.84	1.00	68.0	32.0
CSBX1275-1R5M	1.50	1.40	1.61	54.0	28.0
CSBX1275-2R2M	2.20	2.10	2.45	45.0	24.0
CSBX1275-3R3M	3.30	2.70	3.10	37.0	22.0
CSBX1275-4R7M	4.70	3.68	4.25	30.0	19.0
CSBX1275-5R6M	5.60	4.60	5.30	27.0	17.0
CSBX1275-6R8M	6.80	6.05	6.95	25.5	14.0
CSBX1275-8R2M	8.20	7.03	8.10	23.0	12.0
CSBX1275-100M	10.0	8.77	10.1	21.0	11.0
CSBX1275-120M	12.0	10.2	11.7	19.5	10.0
CSBX1275-150M	15.0	12.0	13.8	16.0	9.30
CSBX1275-180M	18.0	14.5	16.7	14.5	8.50
CSBX1275-220M	22.0	15.5	17.8	12.0	8.00
CSBX1275-270M	27.0	23.0	26.5	11.4	7.00
CSBX1275-330M	33.0	28.3	32.5	10.6	6.00
CSBX1275-390M	39.0	31.3	36.0	9.00	5.50
CSBX1275-470M	47.0	40.0	46.0	8.20	5.00
CSBX1275-560M	56.0	60.0	69.0	7.50	4.00

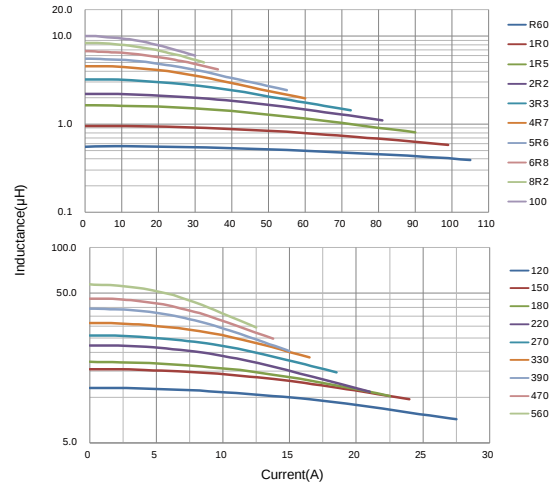
■ All data is tested based on 25°C ambient temperature.

※1 Inductance measure condition at 100kHz, 0.5V.

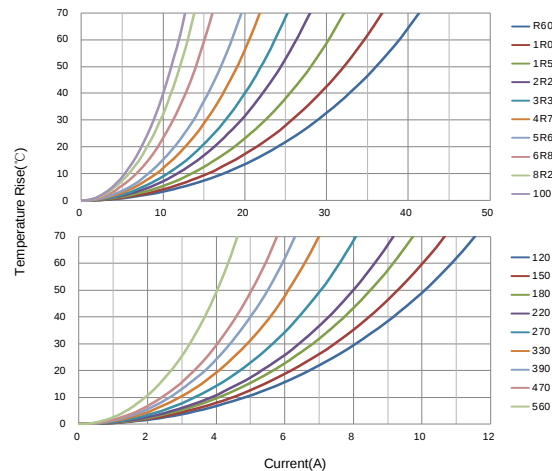
※2 Saturation current: the actual value of DC current when the inductance decrease 30% of its initial value.

※3 Temperature rise current: the actual value of DC current when the temperature rise is ΔT50°C (Ta=25°C).

Saturation Current Curve



Temperature Rise Current Curve



AEC-Q200

CSBX1670



Operating temperature range: -50°C ~ +150°C

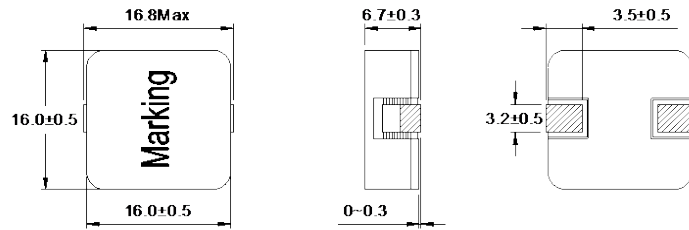
Construction



Wire



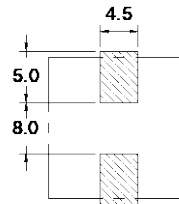
Appearance and Dimensions (mm)



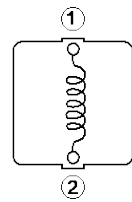
Marking



Reference Land Pattern (mm)



Schematic



Electrical Characteristics

Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typ.	Max.	Typ.	Typ.
CSBX1670-1R0M	1.00	0.89	1.05	66.0	33.0
CSBX1670-1R5M	1.50	1.35	1.55	49.0	30.0
CSBX1670-2R2M	2.20	1.90	2.20	40.0	25.0
CSBX1670-3R3M	3.30	2.68	3.10	34.0	23.0
CSBX1670-4R7M	4.70	3.46	4.00	32.0	20.0
CSBX1670-5R6M	5.60	4.50	5.20	26.0	18.0
CSBX1670-6R5M	6.50	5.48	6.30	23.0	16.0
CSBX1670-8R2M	8.20	7.15	8.25	21.0	15.0
CSBX1670-100M	10.0	8.70	10.0	18.0	13.0
CSBX1670-150M	15.0	12.3	14.2	17.0	11.0
CSBX1670-220M	22.0	20.3	23.5	14.0	8.50

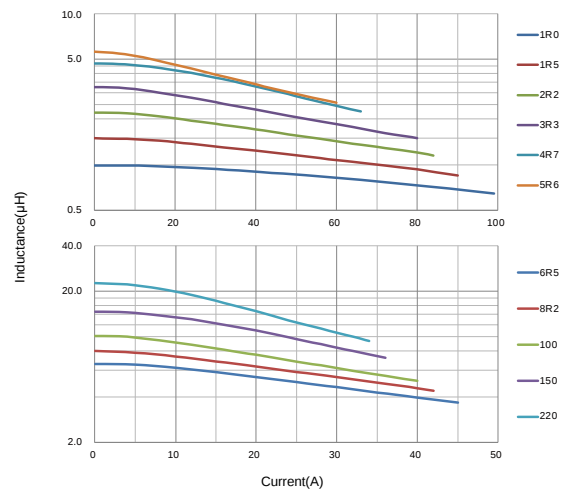
■ All data is tested based on 25°C ambient temperature.

※1 Inductance measure condition at 100kHz, 0.5V.

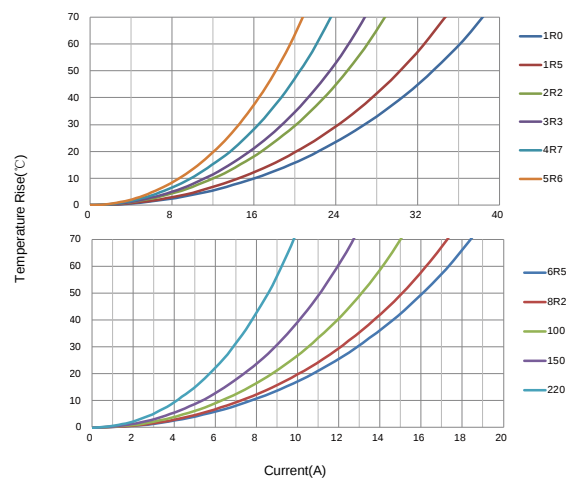
※2 Saturation current: the actual value of DC current when the inductance decrease 30% of its initial value.

※3 Temperature rise current: the actual value of DC current when the temperature rise is ΔT50°C (Ta=25°C).

Saturation Current Curve



Temperature Rise Current Curve



AEC-Q200

CSBX1809



Operating temperature range: -50°C ~ +150°C

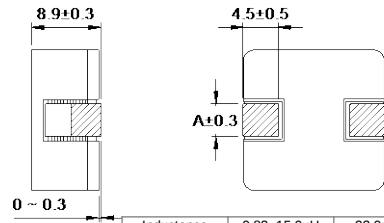
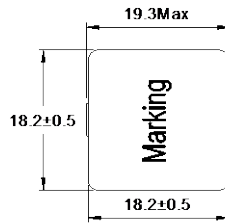
Construction



Wire



Appearance and Dimensions (mm)

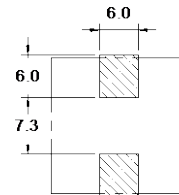


Inductance	0.82~15.0μH	22.0μH	33.0~56.μH
A(mm)	4.00	3.50	3.20

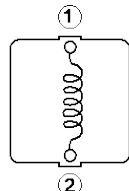
Marking



Reference Land Pattern (mm)



Schematic



Electrical Characteristics

Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typ.	Max.	Typ.	Typ.
CSBX1809-R82M	0.82	0.54	0.62	88.0	41.5
CSBX1809-1R3M	1.30	0.85	1.00	67.0	36.0
CSBX1809-2R0M	2.00	1.20	1.38	58.0	32.5
CSBX1809-2R7M	2.70	1.58	1.82	50.0	31.5
CSBX1809-3R6M	3.60	2.20	2.60	43.0	25.0
CSBX1809-4R7M	4.70	2.85	3.40	39.0	22.5
CSBX1809-5R6M	5.60	3.18	3.70	35.0	21.0
CSBX1809-6R8M	6.80	4.10	4.70	31.0	18.5
CSBX1809-8R5M	8.50	4.82	5.55	28.0	18.0
CSBX1809-100M	10.0	6.00	6.90	26.0	16.0
CSBX1809-150M	15.0	8.20	9.43	22.0	14.0
CSBX1809-220M	22.0	12.1	14.1	17.5	11.0
CSBX1809-330M	33.0	20.0	23.0	14.0	8.50
CSBX1809-470M	47.0	33.7	38.8	11.5	6.80
CSBX1809-560M	56.0	35.8	41.2	10.8	6.50

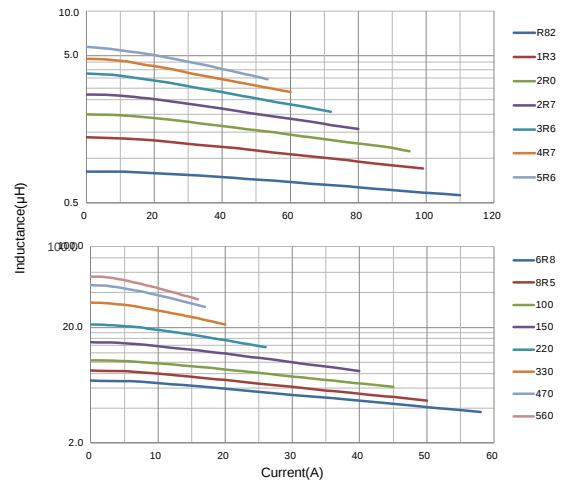
■ All data is tested based on 25°C ambient temperature.

※1 Inductance measure condition at 100kHz, 0.5V.

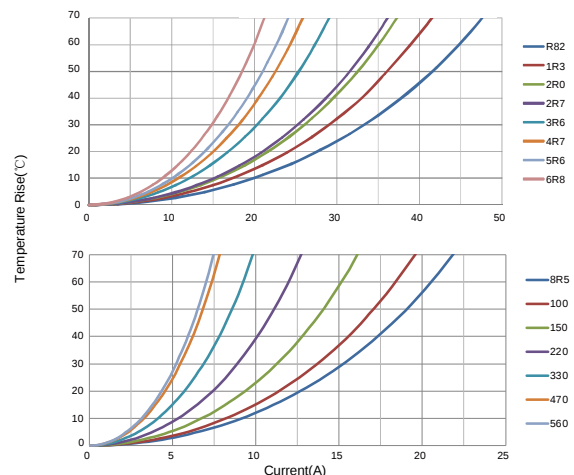
※2 Saturation current: the actual value of DC current when the inductance decrease 30% of its initial value.

※3 Temperature rise current: the actual value of DC current when the temperature rise is ΔT50°C (Ta=25°C).

Saturation Current Curve



Temperature Rise Current Curve



AEC-Q200

CSBX2212



Operating temperature range: -55°C ~ +150°C

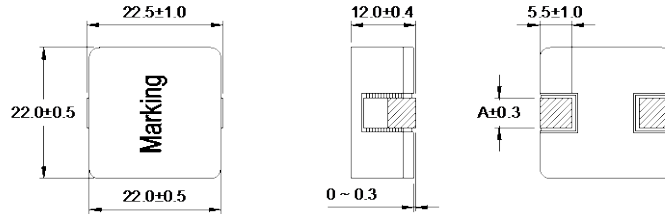
Construction



Wire



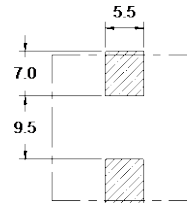
Appearance and Dimensions (mm)



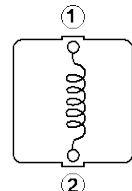
Marking



Reference Land Pattern (mm)



Schematic



Electrical Characteristics

Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typ.	Max.	Typ.	Typ.
CSBX2212-3R3M	3.30	1.03	1.20	70.0	32.0
CSBX2212-4R7M	4.70	1.52	1.75	58.0	30.0
CSBX2212-6R8M	6.80	2.33	2.70	48.0	26.0
CSBX2212-8R2M	8.20	2.78	3.20	45.0	24.0
CSBX2212-100M	10.0	3.37	3.88	40.0	21.0
CSBX2212-120M	12.0	4.17	4.80	37.0	19.5
CSBX2212-150M	15.0	4.73	5.45	32.0	18.0
CSBX2212-220M	22.0	7.15	8.25	27.0	15.0
CSBX2212-330M	33.0	11.6	13.5	22.0	11.5
CSBX2212-390M	39.0	17.2	19.8	20.5	9.50
CSBX2212-470M	47.0	18.6	21.4	18.5	9.00
CSBX2212-560M	56.0	20.2	23.3	17.0	8.20
CSBX2212-680M	68.0	26.3	30.3	15.0	7.50
CSBX2212-820M	82.0	29.3	33.7	13.8	7.00
CSBX2212-101M	100	35.5	40.8	12.5	6.10

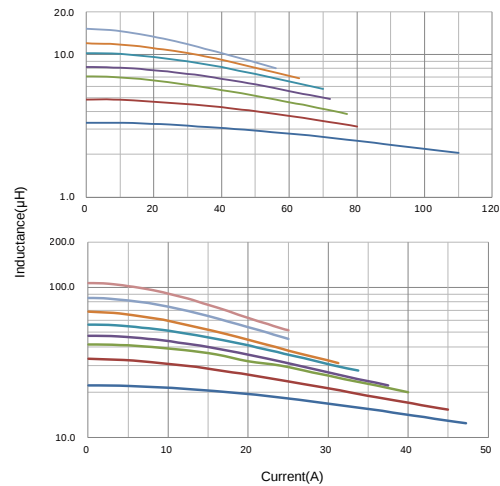
■ All data is tested based on 25°C ambient temperature.

※1 Inductance measure condition at 100kHz, 0.5V.

※2 Saturation current: the actual value of DC current when the inductance decrease 30% of its initial value.

※3 Temperature rise current: the actual value of DC current when the temperature rise is ΔT50°C (Ta=25°C).

Saturation Current Curve



Temperature Rise Current Curve

