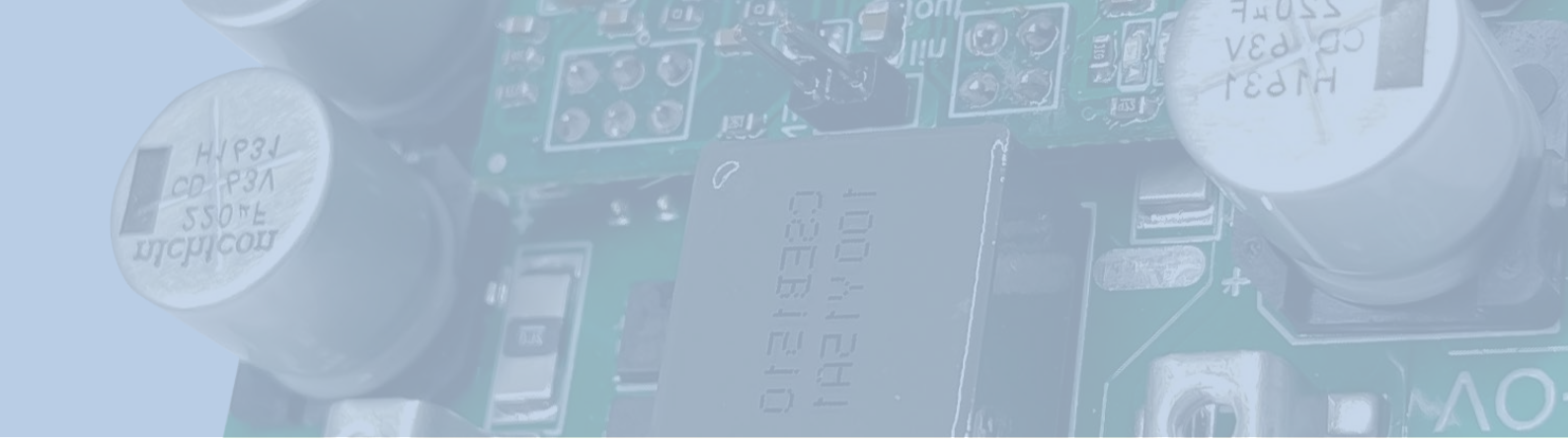
CODACA

PRODUCTS CATALOG

Molded Power Inductor
CSEB CSEC Series



About this guide

- Mainly use in:

  Medical electronics, industrial control, new energy, communication equipment, audio system, etc

- Features:
  - Fully shielded for very low radio interferences and acoustic noise
  - Ultra-low buzz noise
  - Low loss, high efficiency, and wide application frequency
  - Rac 40%～50% lower compared with same products in the market

- Electronic parameter
  - Operation temperature：-40~125℃
  - Inductance range ： 0.10~150 (μH)
  - Irms range ： 1.00~58.0(A)

Molded Power Inductor
CSEB / CSEC

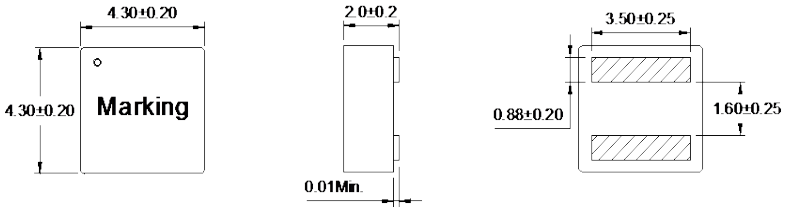
CSEB0420H

Operating temperature range : -40℃～+125℃

Construction

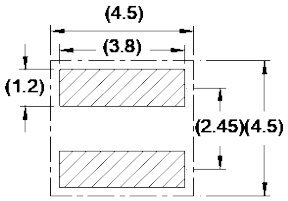
Wire

Appearance and Dimensions (mm)

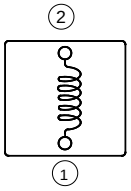


Marking

Reference Land Pattern (mm)



Schematic

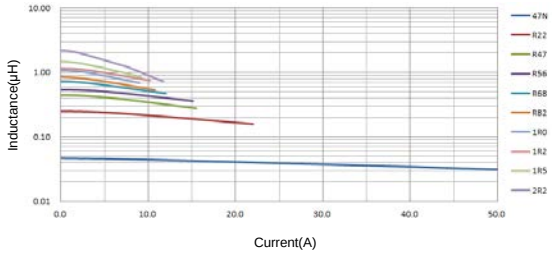


Electrical Characteristics

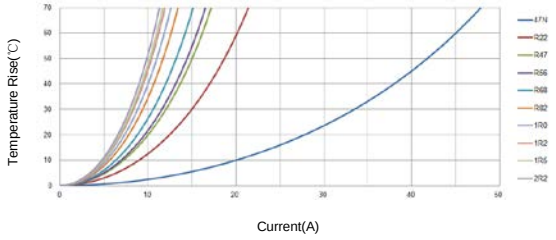
Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2		Temperature rise current (A)※3	
	±20%	Typical	Max	Typical	Max	Typical	Max
CSEB0420H-47NM	0.047	1.25	1.55	50.0	40.0	38.0	34.0
CSEB0420H-R22M	0.22	3.30	3.80	18.8	16.0	17.0	15.5
CSEB0420H-R47M	0.47	5.80	6.70	12.1	10.5	13.5	12.5
CSEB0420H-R56M	0.56	6.80	8.00	11.8	10.3	13.0	12.0
CSEB0420H-R68M	0.68	8.50	9.60	10.5	8.60	12.0	10.7
CSEB0420H-R82M	0.82	9.70	11.0	9.00	7.40	11.6	10.3
CSEB0420H-1R0M	1.00	11.5	13.5	8.40	7.00	10.0	8.60
CSEB0420H-1R2M	1.20	13.6	16.0	8.20	6.70	9.50	8.30
CSEB0420H-1R5M	1.50	16.2	18.5	6.30	5.50	9.20	8.10
CSEB0420H-2R2M	2.20	21.0	23.5	5.60	5.20	7.90	7.20

■ All data is tested based on 25℃ ambient temperature.
※1 Inductance measure condition at 100kHz, 0.1V.
※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 ΔT40℃(Ta=25℃).

Saturation Current Curve



Temperature Rise Current Curve



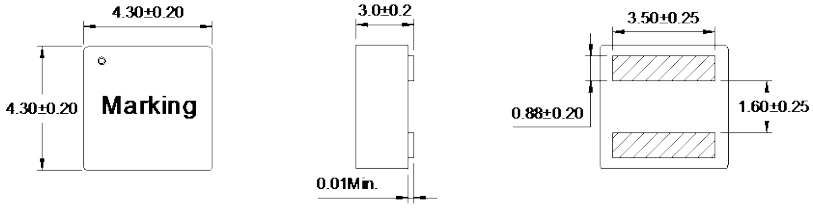
CSEB0430H

Operating temperature range : -40℃～+125℃

Construction

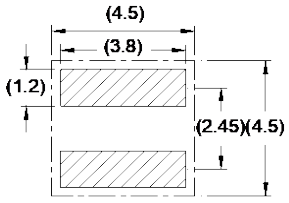
Wire

Appearance and Dimensions (mm)

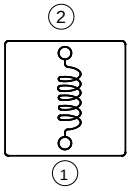


Marking

Reference Land Pattern (mm)



Schematic

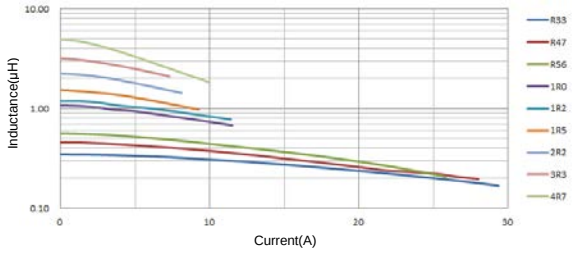


Electrical Characteristics

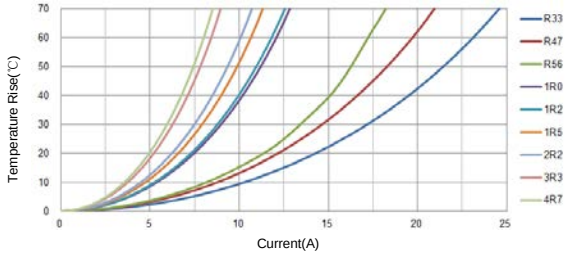
Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2		Temperature rise current (A)※3	
	±20%	Typical	Max	Typical	Max	Typical	Max
CSEB0430H-R33M	0.33	3.30	4.00	19.1	16.3	19.3	17.5
CSEB0430H-R47M	0.47	3.90	4.50	15.5	13.0	17.3	15.6
CSEB0430H-R56M	0.56	4.80	5.60	14.0	11.9	15.5	14.0
CSEB0430H-1R0M	1.00	8.90	9.80	9.50	8.10	10.2	9.10
CSEB0430H-1R2M	1.20	9.50	10.8	9.30	8.00	10.0	8.90
CSEB0430H-1R5M	1.50	11.0	12.9	8.30	7.00	9.00	8.10
CSEB0430H-2R2M	2.20	17.1	19.8	6.50	5.60	8.50	7.60
CSEB0430H-3R3M	3.30	21.5	25.5	5.70	5.00	7.10	6.30
CSEB0430H-4R7M	4.70	31.0	37.0	4.60	4.00	6.00	5.40

■ All data is tested based on 25℃ ambient temperature.
※1 Inductance measure condition at 100kHz, 0.1V.
※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 ΔT40℃(Ta=25℃).

Saturation Current Curve



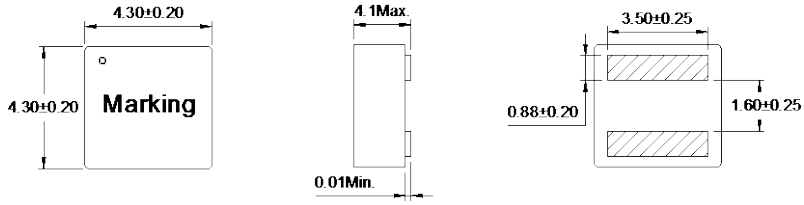
Temperature Rise Current Curve



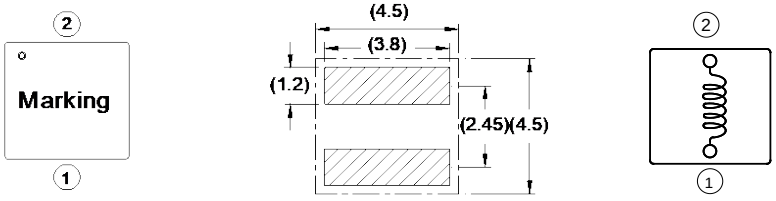
CSEB0440H

Operating temperature range : -40℃～+125℃

Appearance and Dimensions (mm)



Marking	Reference Land Pattern (mm)	Schematic



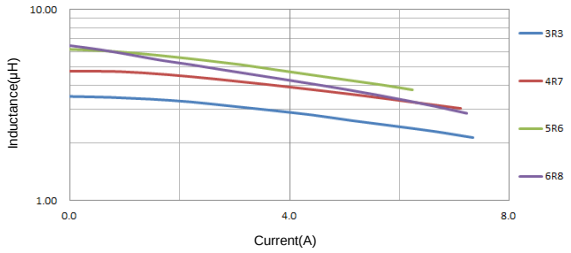
Construction	Wire

Electrical Characteristics

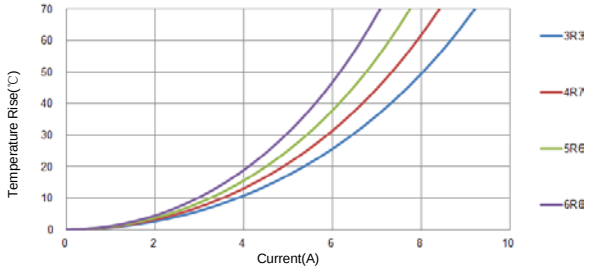
Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2		Temperature rise current (A)※3	
	±20%	Typical	Max	Typical	Max	Typical	Max
CSEB0440H-3R3M	3.30	21.0	25.0	6.00	5.20	7.30	6.60
CSEB0440H-4R7M	4.70	29.0	35.0	5.50	4.70	6.60	6.00
CSEB0440H-5R6M	5.60	38.0	44.5	4.80	4.30	6.10	5.60
CSEB0440H-6R8M	6.80	45.0	55.0	4.30	3.60	5.50	5.00

■ All data is tested based on 25℃ ambient temperature.
※1 Inductance measure condition at 100kHz, 0.1V.
※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 ΔT40℃(Ta=25℃).

Saturation Current Curve



Temperature Rise Current Curve



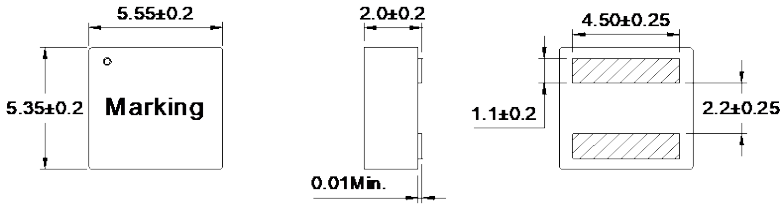
CSEB0520H

Operating temperature range : -40℃～+125℃

Construction

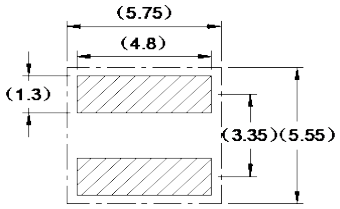
Wire

Appearance and Dimensions (mm)

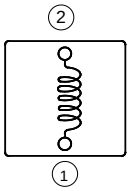


Marking

Reference Land Pattern (mm)



Schematic

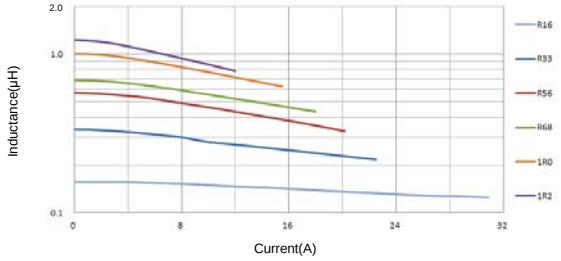


Electrical Characteristics

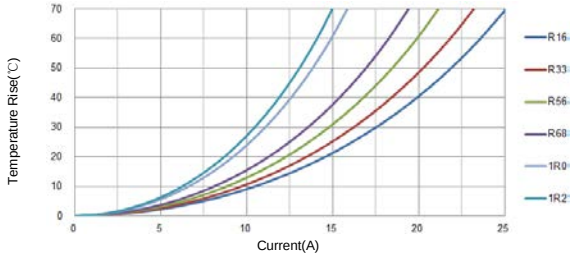
Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2		Temperature rise current (A)※3	
	±20%	Typical	Max	Typical	Max	Typical	Max
CSEB0520H-R16M	0.16	2.90	3.80	29.0	24.5	20.0	18.0
CSEB0520H-R33M	0.33	3.20	4.30	18.8	17.0	18.5	16.7
CSEB0520H-R56M	0.56	6.20	8.10	14.5	12.2	14.0	12.6
CSEB0520H-R68M	0.68	8.80	10.0	13.5	11.7	12.0	10.8
CSEB0520H-1R0M	1.00	9.30	10.9	11.0	9.50	10.6	9.60
CSEB0520H-1R2M	1.20	13.5	16.0	9.80	8.70	10.0	9.00

■ All data is tested based on 25℃ ambient temperature.
※1 Inductance measure condition at 100kHz, 0.1V.
※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 ΔT40℃(Ta=25℃).

Saturation Current Curve



Temperature Rise Current Curve



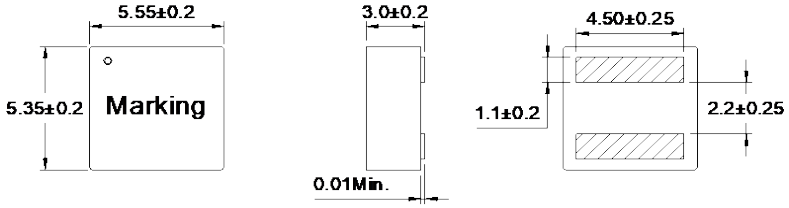
CSEB0530H

Operating temperature range : -40℃～+125℃

Construction

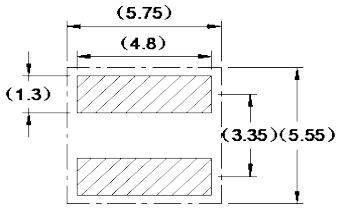
Wire

Appearance and Dimensions (mm)

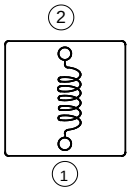


Marking

Reference Land Pattern (mm)



Schematic

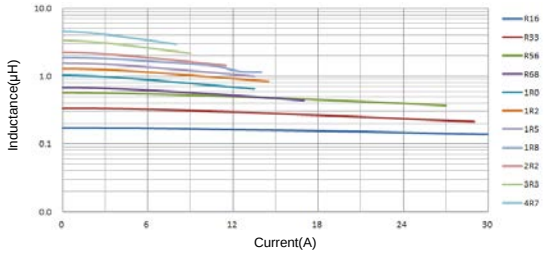


Electrical Characteristics

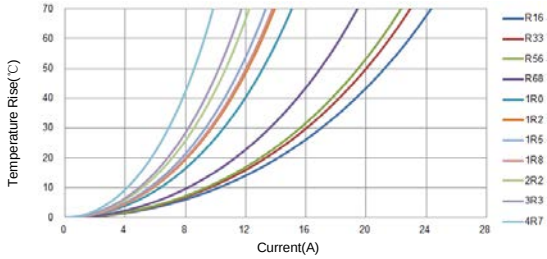
Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2		Temperature rise current (A)※3	
	±20%	Typical	Max	Typical	Max	Typical	Max
CSEB0530H-R16M	0.16	2.30	2.70	32.0	28.5	22.5	20.0
CSEB0530H-R33M	0.33	3.10	3.90	26.0	22.0	19.5	17.5
CSEB0530H-R56M	0.56	4.00	4.60	22.5	19.1	18.0	16.2
CSEB0530H-R68M	0.68	4.30	4.90	15.0	12.5	15.5	13.6
CSEB0530H-1R0M	1.00	7.00	8.30	14.1	11.5	12.0	10.8
CSEB0530H-1R2M	1.20	7.50	8.80	13.0	11.0	11.6	10.5
CSEB0530H-1R5M	1.50	9.00	11.0	11.5	10.0	11.1	10.0
CSEB0530H-1R8M	1.80	9.30	11.2	11.2	9.60	10.9	9.80
CSEB0530H-2R2M	2.20	13.2	14.5	9.50	8.50	9.70	8.80
CSEB0530H-3R3M	3.30	17.0	19.9	8.10	7.00	9.30	8.20
CSEB0530H-4R7M	4.70	24.0	28.0	6.50	5.40	7.80	7.10

■ All data is tested based on 25℃ ambient temperature.
※1 Inductance measure condition at 100kHz, 0.1V.
※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 ΔT40℃(Ta=25℃).

Saturation Current Curve



Temperature Rise Current Curve



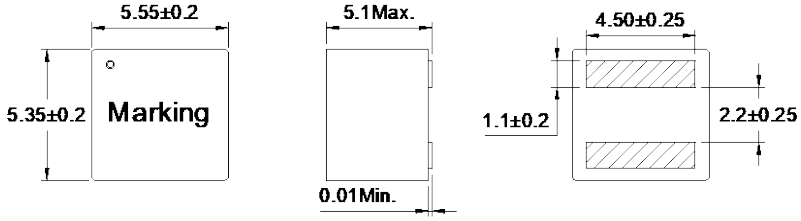
CSEB0550H

Operating temperature range : -40℃～+125℃

Construction

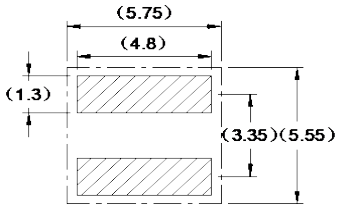
Wire

Appearance and Dimensions (mm)

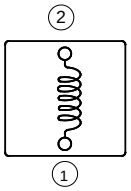


Marking

Reference Land Pattern (mm)



Schematic

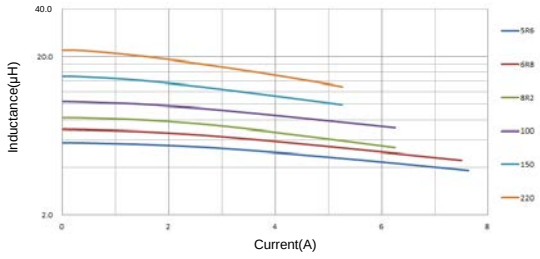


Electrical Characteristics

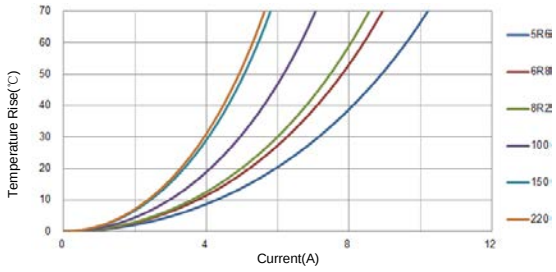
Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2		Temperature rise current (A)※3	
	±20%	Typical	Max	Typical	Max	Typical	Max
CSEB0550H-5R6M	5.60	23.0	25.5	6.50	5.70	8.10	7.30
CSEB0550H-6R8M	6.80	26.5	29.3	6.20	5.40	7.10	6.40
CSEB0550H-8R2M	8.20	31.5	34.6	5.40	4.70	6.80	6.20
CSEB0550H-100M	10.0	38.5	43.5	5.20	4.50	5.60	5.00
CSEB0550H-150M	15.0	61.0	70.7	4.30	3.80	4.60	4.00
CSEB0550H-220M	22.0	78.0	90.0	4.00	3.40	4.20	3.60

■ All data is tested based on 25℃ ambient temperature.
※1 Inductance measure condition at 100kHz, 0.1V.
※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 ΔT40℃(Ta=25℃).

Saturation Current Curve



Temperature Rise Current Curve



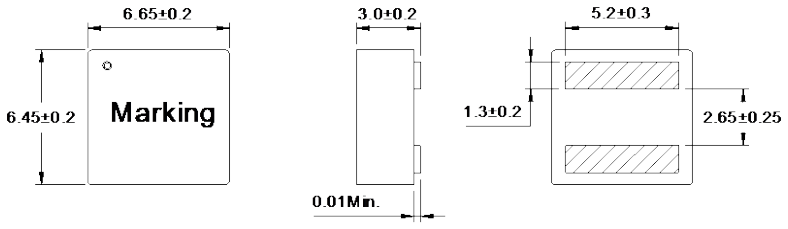
CSEB0630H

Operating temperature range : -40℃～+125℃

Construction

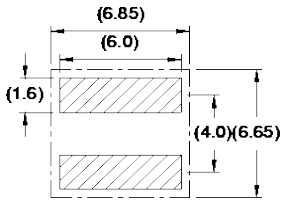
Wire

Appearance and Dimensions (mm)

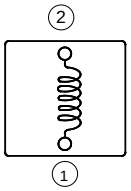


Marking

Reference Land Pattern (mm)



Schematic

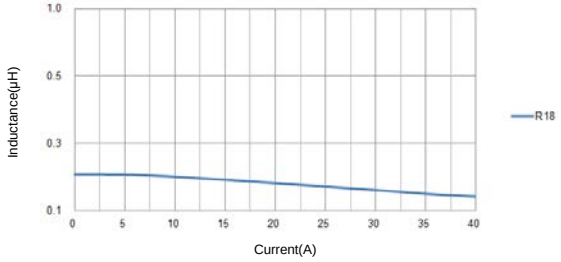


Electrical Characteristics

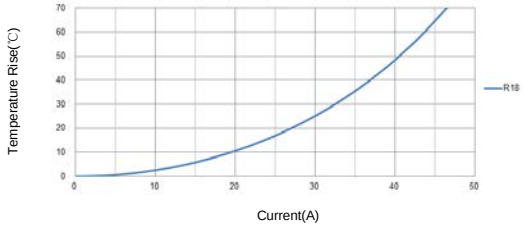
Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2		Temperature rise current (A)※3	
	±20%	Typical	Max	Typical	Max	Typical	Max
CSEB0630H-R18M	0.18	1.50	1.75	45.0	39.0	35.5	32.0

■ All data is tested based on 25℃ ambient temperature.
※1 Inductance measure condition at 100kHz, 0.1V.
※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 ΔT40℃(Ta=25℃).

Saturation Current Curve



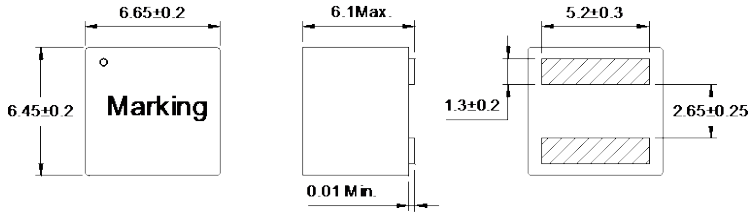
Temperature Rise Current Curve



CSEB0660H

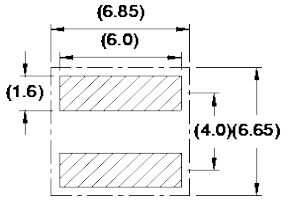
Operating temperature range : -40℃～+125℃

Appearance and Dimensions (mm)

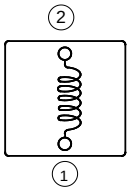


Marking

Reference Land Pattern (mm)



Schematic



Construction

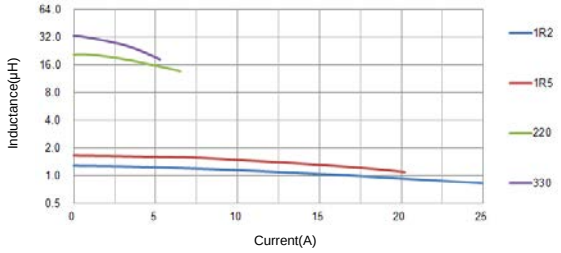
Wire

Electrical Characteristics

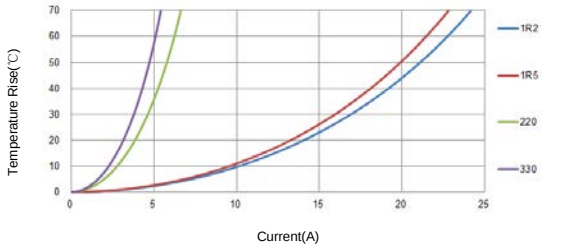
Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2		Temperature rise current (A)※3	
	±20%	Typical	Max	Typical	Max	Typical	Max
CSEB0660H-1R2M	1.20	4.60	5.50	19.5	17.3	19.1	17.3
CSEB0660H-1R5M	1.50	5.30	6.40	18.7	16.3	18.1	16.3
CSEB0660H-220M	22.0	58.0	63.9	5.50	4.70	5.20	4.70
CSEB0660H-330M	33.0	75.0	85.0	3.70	3.20	4.30	3.80

■ All data is tested based on 25℃ ambient temperature.
※1 Inductance measure condition at 100kHz, 0.1V.
※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 ΔT40℃(Ta=25℃).

Saturation Current Curve



Temperature Rise Current Curve



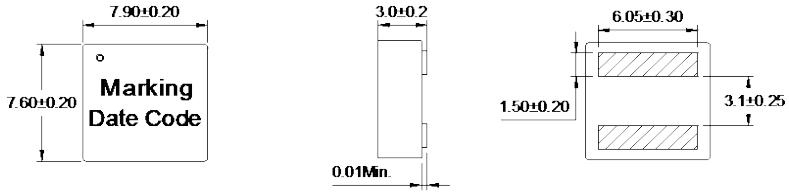
CSEB0730H

Operating temperature range : -40℃～+125℃

Construction

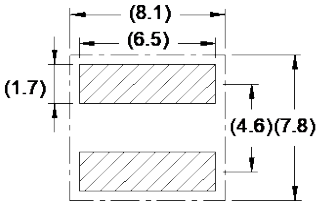
Wire

Appearance and Dimensions (mm)

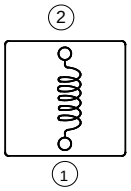


Marking

Reference Land Pattern (mm)



Schematic

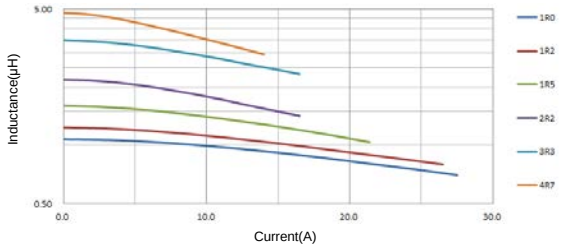


Electrical Characteristics

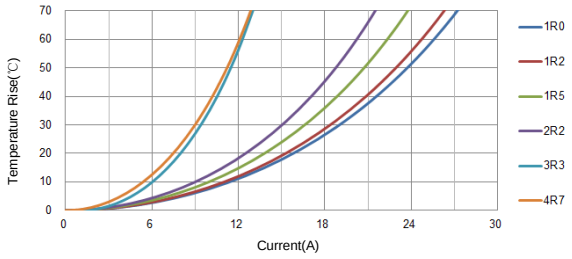
Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2		Temperature rise current (A)※3	
	±20%	Typical	Max	Typical	Max	Typical	Max
CSEB0730H-1R0M	1.00	4.30	5.20	25.0	21.5	21.0	19.0
CSEB0730H-1R2M	1.20	4.50	5.50	22.5	19.2	20.0	18.0
CSEB0730H-1R5M	1.50	5.50	6.60	19.0	16.0	18.7	17.0
CSEB0730H-2R2M	2.20	8.80	10.6	15.2	13.0	16.6	15.0
CSEB0730H-3R3M	3.30	16.5	19.0	12.3	10.8	11.2	10.1
CSEB0730H-4R7M	4.70	20.6	25.0	10.4	9.00	10.2	9.20

■ All data is tested based on 25℃ ambient temperature.
※1 Inductance measure condition at 100kHz, 0.1V.
※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 ΔT40℃(Ta=25℃).

Saturation Current Curve



Temperature Rise Current Curve



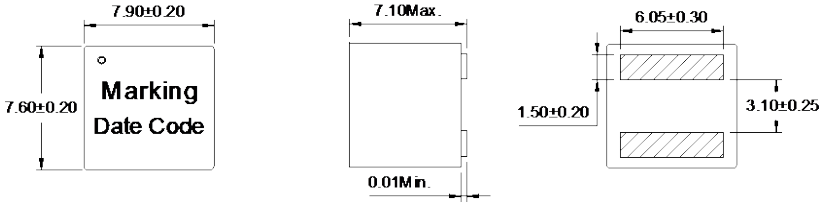
CSEB0770H

Operating temperature range : -40℃～+125℃

Construction

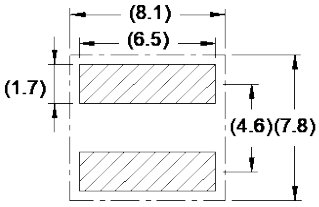
Wire

Appearance and Dimensions (mm)

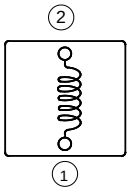


Marking

Reference Land Pattern (mm)



Schematic

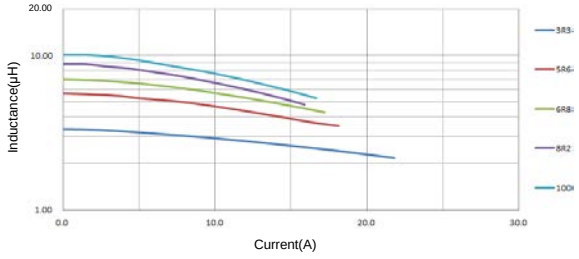


Electrical Characteristics

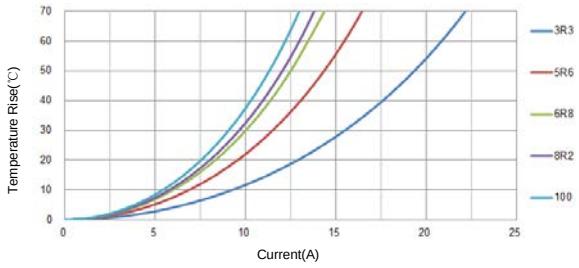
Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2		Temperature rise current (A)※3	
	±20%	Typical	Max	Typical	Max	Typical	Max
CSEB0770H-3R3M	3.30	7.30	8.80	18.5	16.0	17.0	15.3
CSEB0770H-5R6M	5.60	11.0	13.5	14.2	12.0	13.0	11.5
CSEB0770H-6R8M	6.80	13.5	16.9	12.8	10.0	11.2	10.0
CSEB0770H-8R2M	8.20	17.0	19.5	11.0	9.60	10.8	9.50
CSEB0770H-100M	10.0	20.0	23.0	10.3	8.90	10.2	9.10

■ All data is tested based on 25℃ ambient temperature.
※1 Inductance measure condition at 100kHz, 0.1V.
※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 ΔT40℃(Ta=25℃).

Saturation Current Curve



Temperature Rise Current Curve



AEC-Q200

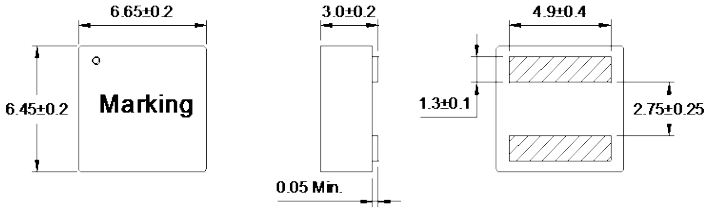
CSEB0630

Operating temperature range : -40℃～+125℃

Construction

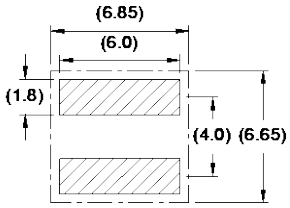
Wire

Appearance and Dimensions (mm)

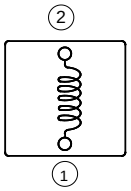


Marking

Reference Land Pattern (mm)



Schematic

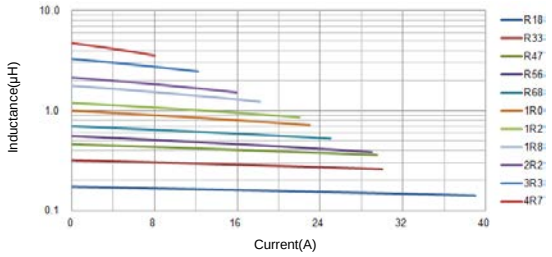


Electrical Characteristics

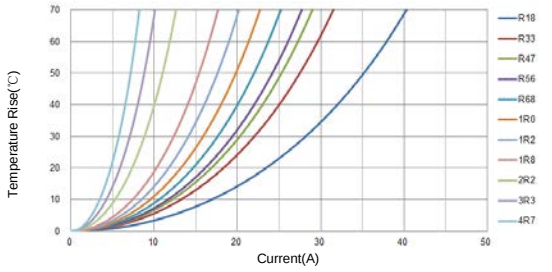
Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typical	Max	Typical	Typical
CSEB0630-R18M	0.18	1.32	1.50	39.0	32.0
CSEB0630-R33M	0.33	2.28	2.50	30.0	25.0
CSEB0630-R47M	0.47	2.84	3.10	29.5	23.0
CSEB0630-R56M	0.56	3.17	3.50	29.0	22.0
CSEB0630-R68M	0.68	4.10	4.70	25.0	20.0
CSEB0630-1R0M	1.00	5.92	6.50	23.0	18.0
CSEB0630-1R2M	1.20	6.40	7.04	22.0	16.0
CSEB0630-1R8M	1.80	9.57	10.5	18.2	14.0
CSEB0630-2R2M	2.20	11.7	12.5	15.9	10.0
CSEB0630-3R3M	3.30	21.1	23.0	12.2	8.00
CSEB0630-4R7M	4.70	31.0	35.5	8.00	6.50

■ All data is tested based on 25℃ ambient temperature.
※1 Inductance measure condition at 100kHz, 0.1V.
※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 ΔT40℃(Ta=25℃).

Saturation Current Curve



Temperature Rise Current Curve



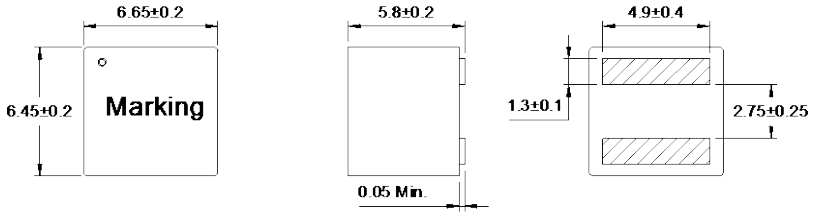
CSEB0660

Operating temperature range : -40℃～+125℃

Construction

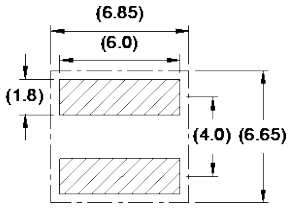
Wire

Appearance and Dimensions (mm)

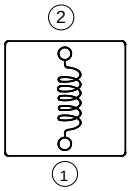


Marking

Reference Land Pattern (mm)



Schematic

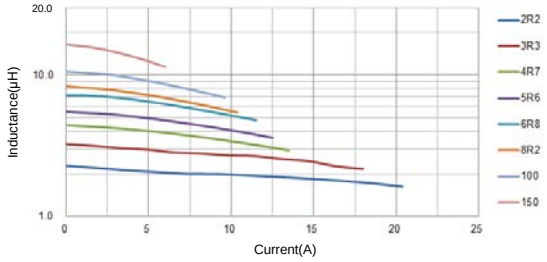


Electrical Characteristics

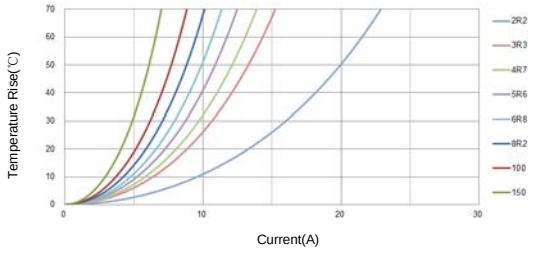
Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typical	Max	Typical	Typical
CSEB0660-2R2M	2.20	5.95	7.14	16.0	16.0
CSEB0660-3R3M	3.30	10.4	12.0	12.0	12.0
CSEB0660-4R7M	4.70	13.0	15.0	10.5	11.0
CSEB0660-5R6M	5.60	15.0	17.3	10.0	10.0
CSEB0660-6R8M	6.80	17.6	20.2	9.20	9.00
CSEB0660-8R2M	8.20	25.9	27.5	8.40	8.00
CSEB0660-100M	10.0	26.5	30.5	7.60	7.00
CSEB0660-150M	15.0	42.0	48.3	6.00	5.50

■ All data is tested based on 25℃ ambient temperature.
※1 Inductance measure condition at 100kHz, 0.1V.
※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 ΔT40℃(Ta=25℃).

Saturation Current Curve



Temperature Rise Current Curve



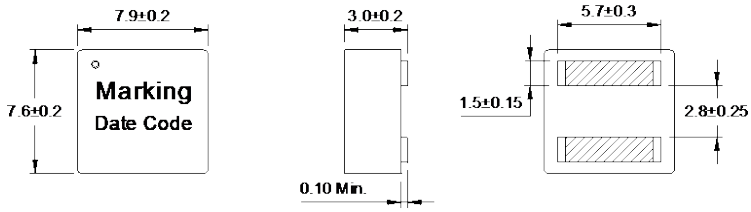
CSEB0730

Operating temperature range : -40℃～+125℃

Construction

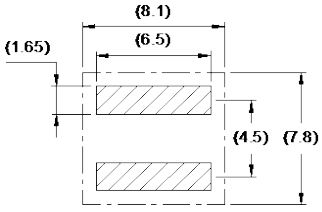
Wire

Appearance and Dimensions (mm)

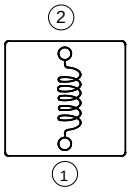


Marking

Reference Land Pattern (mm)



Schematic

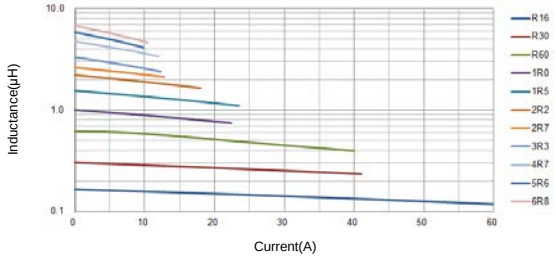


Electrical Characteristics

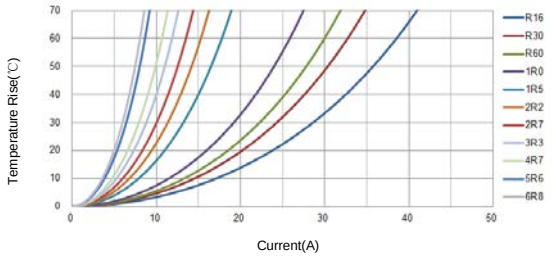
Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typical	Max	Typical	Typical
CSEB0730-R16M	0.16	1.15	1.26	60.0	32.5
CSEB0730-R30M	0.30	1.75	1.92	41.0	27.6
CSEB0730-R60M	0.60	3.60	4.00	36.0	23.0
CSEB0730-1R0M	1.00	4.90	5.50	28.0	21.8
CSEB0730-1R5M	1.50	7.60	8.36	23.5	15.0
CSEB0730-2R2M	2.20	11.0	12.1	18.0	12.9
CSEB0730-2R7M	2.70	12.8	14.1	13.0	11.4
CSEB0730-3R3M	3.30	15.7	18.5	12.3	10.0
CSEB0730-4R7M	4.70	23.5	27.6	10.1	9.00
CSEB0730-5R6M	5.60	28.7	31.6	9.80	7.30
CSEB0730-6R8M	6.80	32.0	37.5	8.70	6.80

■ All data is tested based on 25℃ ambient temperature.
※1 Inductance measure condition at 100kHz, 0.1V.
※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 ΔT40℃(Ta=25℃).

Saturation Current Curve



Temperature Rise Current Curve



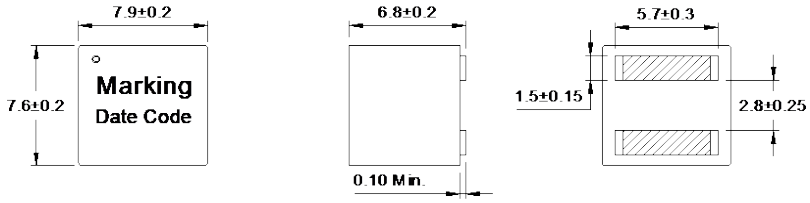
CSEB0770

Operating temperature range : -40℃～+125℃

Construction

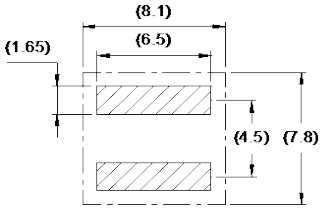
Wire

Appearance and Dimensions (mm)

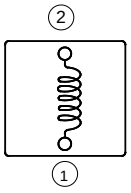


Marking

Reference Land Pattern (mm)



Schematic

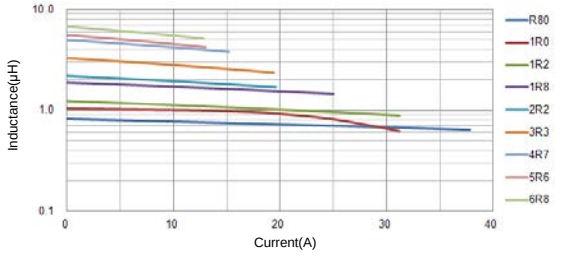


Electrical Characteristics

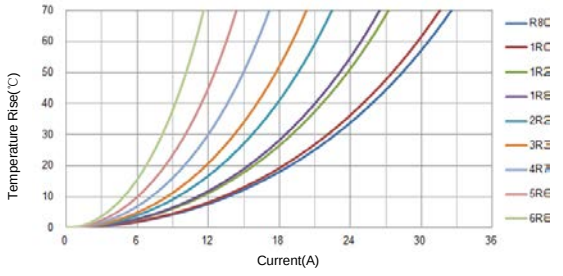
Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typical	Max	Typical	Typical
CSEB0770-R80M	0.80	2.10	2.39	37.8	25.8
CSEB0770-1R0M	1.00	2.30	2.65	34.8	25.0
CSEB0770-1R2M	1.20	2.85	3.30	31.2	21.6
CSEB0770-1R8M	1.80	4.20	4.80	25.0	21.0
CSEB0770-2R2M	2.20	5.60	6.45	19.6	17.8
CSEB0770-3R3M	3.30	7.58	8.70	19.4	15.1
CSEB0770-4R7M	4.70	12.0	13.8	15.2	13.6
CSEB0770-5R6M	5.60	12.2	14.0	13.0	11.4
CSEB0770-6R8M	6.80	17.0	19.5	12.8	9.20

■ All data is tested based on 25℃ ambient temperature.
※1 Inductance measure condition at 100kHz, 0.1V.
※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 ΔT40℃(Ta=25℃).

Saturation Current Curve



Temperature Rise Current Curve



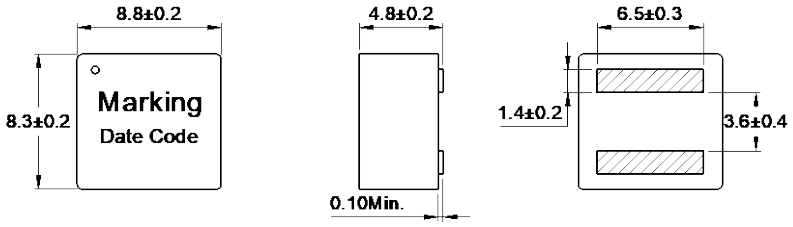
CSEB0850

Operating temperature range : -40℃～+125℃

Construction

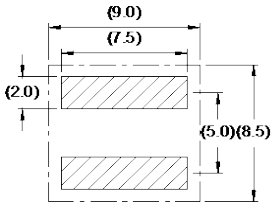
Wire

Appearance and Dimensions (mm)

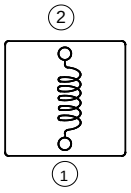


Marking

Reference Land Pattern (mm)



Schematic

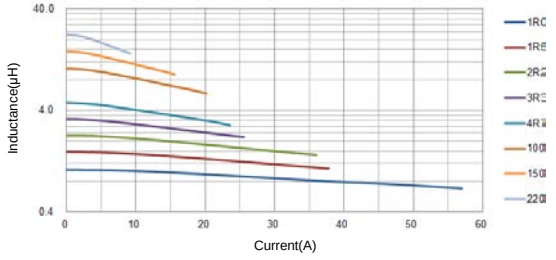


Electrical Characteristics

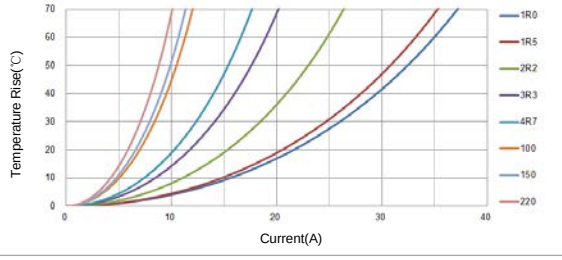
Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typical	Max	Typical	Typical
CSEB0850-1R0M	1.00	3.30	4.15	41.0	29.5
CSEB0850-1R5M	1.50	4.55	5.70	29.5	28.0
CSEB0850-2R2M	2.20	6.50	8.15	27.0	20.0
CSEB0850-3R3M	3.30	10.0	12.5	18.5	18.0
CSEB0850-4R7M	4.70	13.1	16.4	15.0	14.0
CSEB0850-100M	10.0	36.5	45.5	9.50	8.50
CSEB0850-150M	15.0	48.6	57.5	8.50	8.00
CSEB0850-220M	22.0	54.8	68.5	7.00	7.00

■ All data is tested based on 25℃ ambient temperature.
※1 Inductance measure condition at 100kHz, 0.1V.
※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 ΔT40℃(Ta=25℃).

Saturation Current Curve



Temperature Rise Current Curve



AEC-Q200

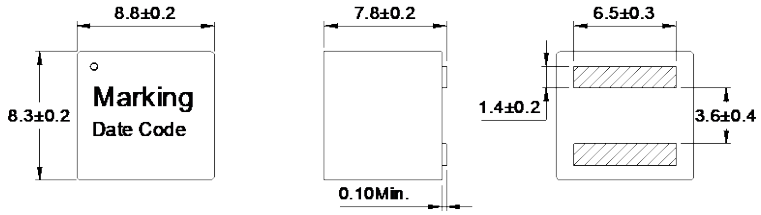
CSEB0880

Operating temperature range : -40℃～+125℃

Construction

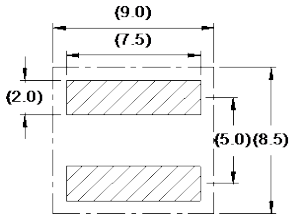
Wire

Appearance and Dimensions (mm)

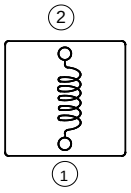


Marking

Reference Land Pattern (mm)



Schematic

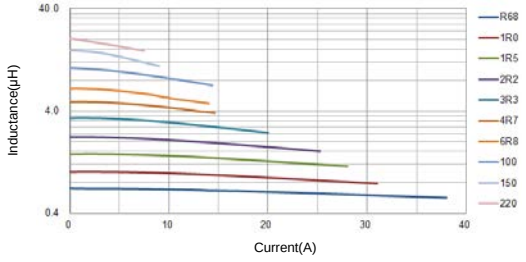


Electrical Characteristics

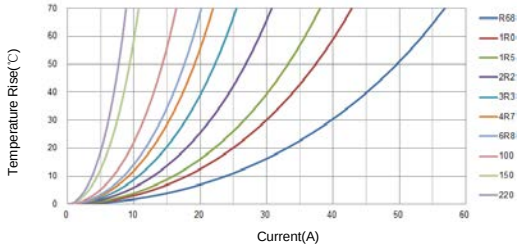
Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typical	Max	Typical	Typical
CSEB0880-R68M	0.68	1.56	1.75	38.0	37.0
CSEB0880-1R0M	1.00	2.10	2.32	31.0	34.0
CSEB0880-1R5M	1.50	3.00	3.50	28.0	28.0
CSEB0880-2R2M	2.20	3.70	4.25	24.0	21.5
CSEB0880-3R3M	3.30	6.40	7.50	20.0	18.0
CSEB0880-4R7M	4.70	8.65	9.54	17.4	14.6
CSEB0880-6R8M	6.80	13.5	14.5	14.0	11.0
CSEB0880-100M	10.0	20.0	22.0	11.0	9.00
CSEB0880-150M	15.0	25.0	28.0	9.00	8.50
CSEB0880-220M	22.0	30.0	34.5	7.50	7.00

■ All data is tested based on 25℃ ambient temperature.
※1 Inductance measure condition at 100kHz, 0.1V.
※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 ΔT40℃(Ta=25℃).

Saturation Current Curve



Temperature Rise Current Curve



AEC-Q200

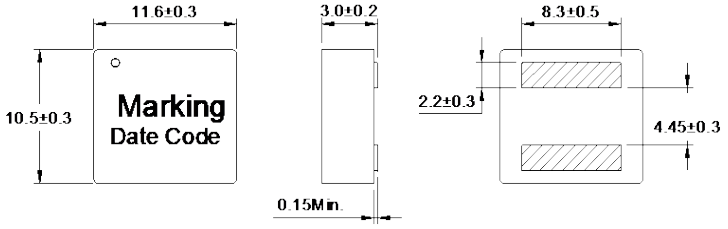
CSEB1030

Operating temperature range : -40℃～+125℃

Construction

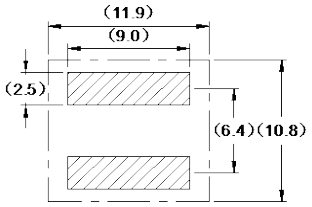
Wire

Appearance and Dimensions (mm)

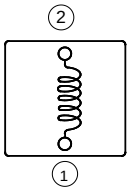


Marking

Reference Land Pattern (mm)



Schematic

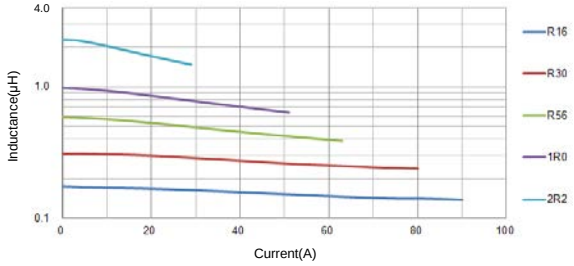


Electrical Characteristics

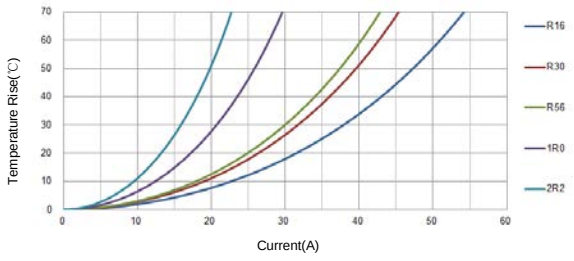
Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typical	Max	Typical	Typical
CSEB1030-R16M	0.16	1.10	1.21	88.0	42.0
CSEB1030-R30M	0.30	1.55	1.70	68.0	35.0
CSEB1030-R56M	0.56	2.50	2.75	44.0	32.0
CSEB1030-1R0M	1.00	4.50	4.95	35.0	23.0
CSEB1030-2R2M	2.20	9.90	13.0	25.0	15.0

■ All data is tested based on 25℃ ambient temperature.
※1 Inductance measure condition at 100kHz, 0.1V.
※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 ΔT40℃(Ta=25℃).

Saturation Current Curve



Temperature Rise Current Curve



AEC-Q200

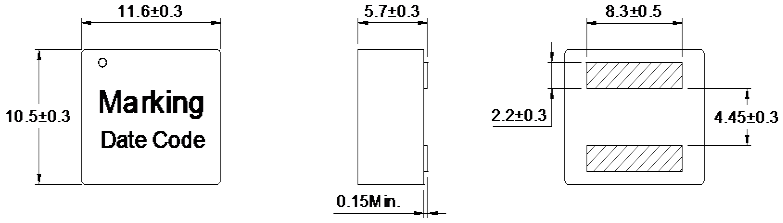
CSEB1060

Operating temperature range : -40℃～+125℃

Construction

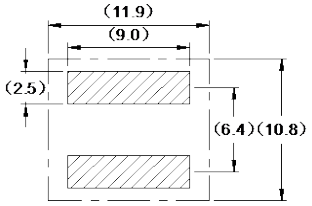
Wire

Appearance and Dimensions (mm)

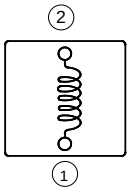


Marking

Reference Land Pattern (mm)



Schematic

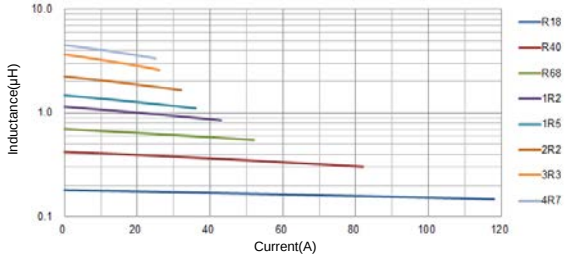


Electrical Characteristics

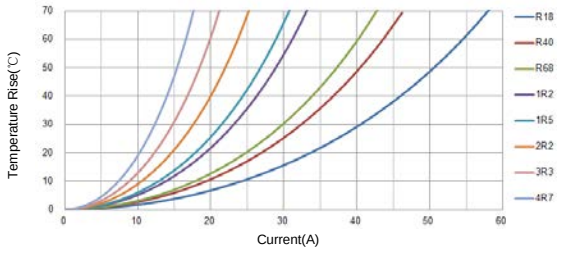
Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typical	Max	Typical	Typical
CSEB1060-R18M	0.18	0.50	0.60	120	46.0
CSEB1060-R40M	0.40	0.80	0.88	82.0	36.8
CSEB1060-R68M	0.68	1.35	1.55	52.0	33.9
CSEB1060-1R2M	1.20	2.38	2.75	43.0	26.3
CSEB1060-1R5M	1.50	3.00	3.30	36.0	24.4
CSEB1060-2R2M	2.20	4.06	4.40	32.0	20.0
CSEB1060-3R3M	3.30	6.50	7.50	26.0	16.8
CSEB1060-4R7M	4.70	8.90	10.2	25.0	14.0

■ All data is tested based on 25℃ ambient temperature.
※1 Inductance measure condition at 100kHz, 0.1V.
※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 ΔT40℃(Ta=25℃).

Saturation Current Curve



Temperature Rise Current Curve



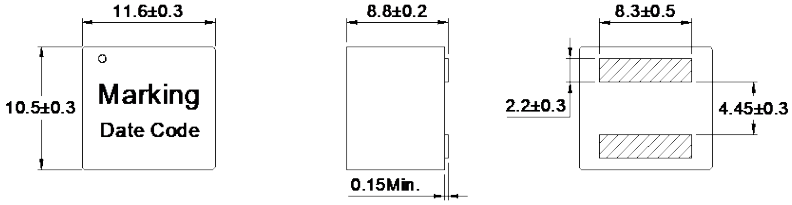
CSEB1090

Operating temperature range : -40℃～+125℃

Construction

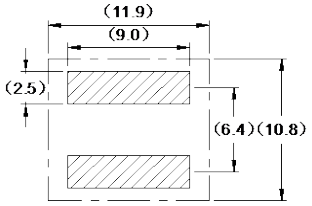
Wire

Appearance and Dimensions (mm)

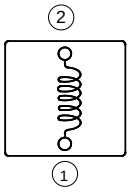


Marking

Reference Land Pattern (mm)



Schematic

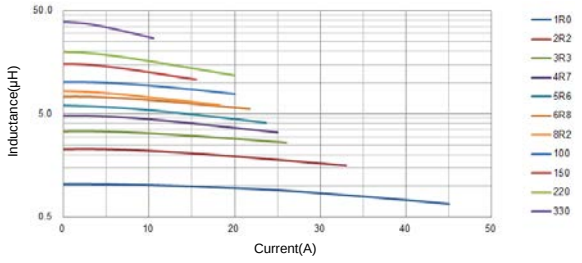


Electrical Characteristics

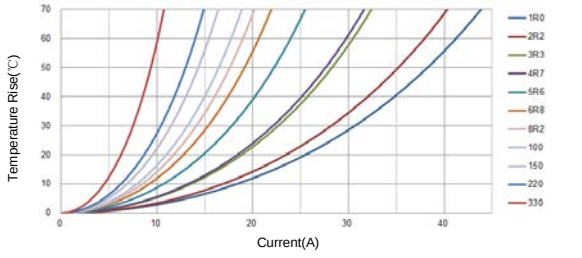
Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typical	Max	Typical	Typical
CSEB1090-1R0M	1.00	1.38	1.65	40.0	33.5
CSEB1090-2R2M	2.20	2.20	2.50	33.0	32.0
CSEB1090-3R3M	3.30	3.40	3.90	26.0	25.0
CSEB1090-4R7M	4.70	5.30	6.00	25.0	24.0
CSEB1090-5R6M	5.60	6.20	6.80	23.6	21.2
CSEB1090-6R8M	6.80	7.60	8.40	21.8	18.5
CSEB1090-8R2M	8.20	10.1	11.5	18.3	17.1
CSEB1090-100M	10.0	11.4	13.1	17.5	15.5
CSEB1090-150M	15.0	14.8	17.0	15.5	13.8
CSEB1090-220M	22.0	22.3	24.5	13.5	11.8
CSEB1090-330M	33.0	36.2	39.9	10.5	9.00

■ All data is tested based on 25℃ ambient temperature.
※1 Inductance measure condition at 100kHz, 0.1V.
※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 ΔT40℃(Ta=25℃).

Saturation Current Curve



Temperature Rise Current Curve



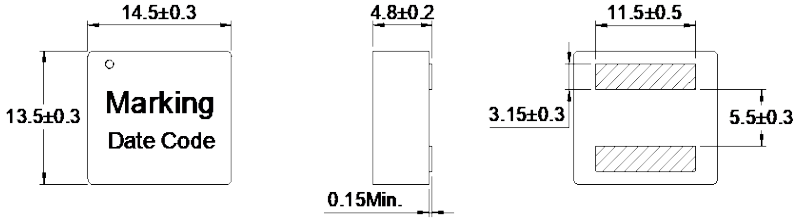
CSEB1350

Operating temperature range : -40℃～+125℃

Construction

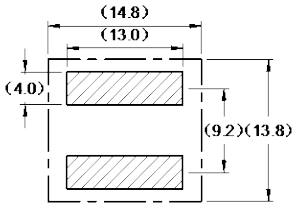
Wire

Appearance and Dimensions (mm)

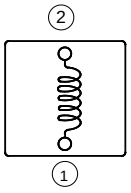


Marking

Reference Land Pattern (mm)



Schematic

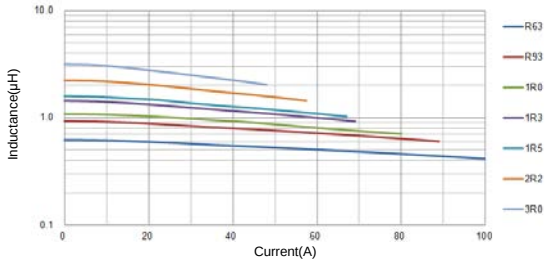


Electrical Characteristics

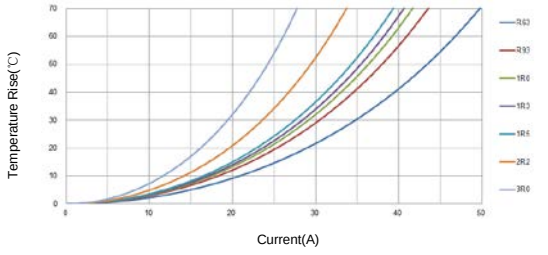
Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typical	Max	Typical	Typical
CSEB1350-R63M	0.63	1.34	1.70	74.5	37.0
CSEB1350-R93M	0.93	1.75	2.20	60.5	33.0
CSEB1350-1R0M	1.00	2.15	2.30	58.5	32.0
CSEB1350-1R3M	1.30	2.43	2.70	56.5	31.0
CSEB1350-1R5M	1.50	2.77	3.50	50.5	30.0
CSEB1350-2R2M	2.20	3.90	4.80	46.5	24.0
CSEB1350-3R0M	3.00	5.20	6.50	37.5	21.0

■ All data is tested based on 25℃ ambient temperature.
※1 Inductance measure condition at 100kHz, 0.1V.
※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 ΔT40℃(Ta=25℃).

Saturation Current Curve



Temperature Rise Current Curve



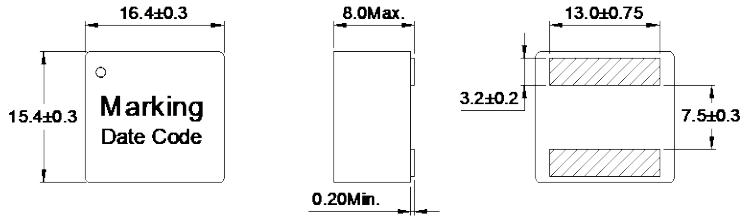
CSEB1508

Operating temperature range : -40℃～+125℃

Construction

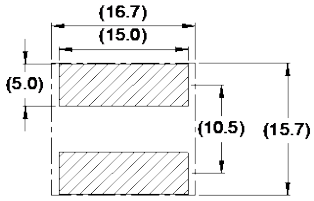
Wire

Appearance and Dimensions (mm)

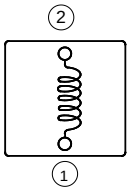


Marking

Reference Land Pattern (mm)



Schematic

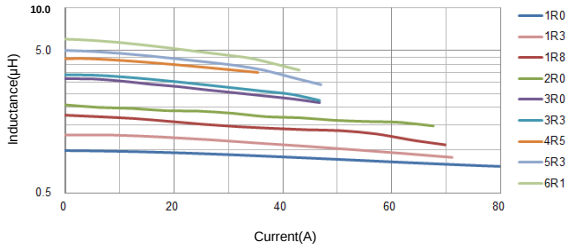


Electrical Characteristics

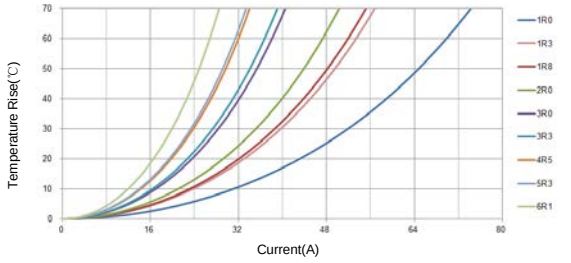
Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typical	Max	Typical	Typical
CSEB1508-1R0M	1.00	0.88	1.00	73.5	57.5
CSEB1508-1R3M	1.30	1.20	1.40	65.0	46.7
CSEB1508-1R8M	1.80	1.55	1.80	57.0	43.8
CSEB1508-2R0M	2.00	1.80	2.10	51.0	39.9
CSEB1508-3R0M	3.00	2.60	3.00	43.0	34.4
CSEB1508-3R3M	3.30	2.80	3.20	43.0	31.0
CSEB1508-4R5M	4.50	3.65	4.20	34.2	27.0
CSEB1508-5R3M	5.30	4.10	4.70	33.0	26.5
CSEB1508-6R1M	6.10	5.10	5.85	31.0	22.6

■ All data is tested based on 25℃ ambient temperature.
※1 Inductance measure condition at 100kHz, 0.1V.
※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 ΔT40℃(Ta=25℃).

Saturation Current Curve



Temperature Rise Current Curve



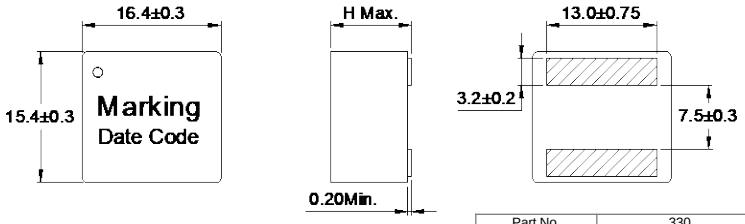
AEC-Q200

CSEB1510

Operating temperature range : -40℃～+125℃

Construction	Wire
	

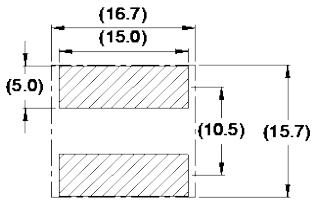
Appearance and Dimensions (mm)



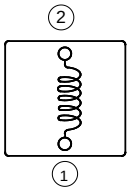
Part No.	330	Others
Dimension H	11.0	10.0

Marking

Reference Land Pattern (mm)



Schematic

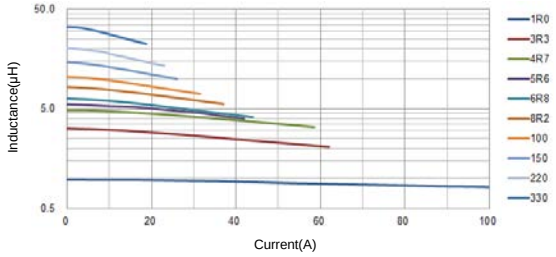


Electrical Characteristics

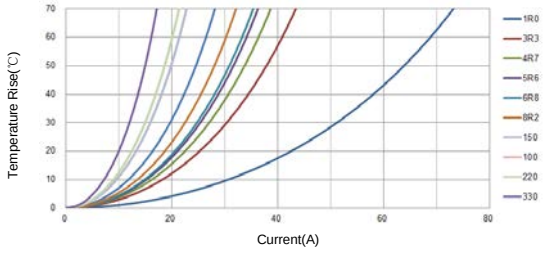
Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typical	Max	Typical	Typical
CSEB1510-1R0M	1.00	0.92	1.10	80.0	58.0
CSEB1510-3R3M	3.30	2.60	3.10	43.0	35.0
CSEB1510-4R7M	4.70	3.50	4.00	39.0	29.0
CSEB1510-5R6M	5.60	3.60	4.20	37.0	28.0
CSEB1510-6R8M	6.80	4.10	4.70	36.0	26.0
CSEB1510-8R2M	8.20	6.00	6.90	30.0	24.0
CSEB1510-100M	10.0	6.50	7.50	26.3	22.0
CSEB1510-150M	15.0	11.3	13.0	23.0	18.0
CSEB1510-220M	22.0	13.3	15.0	18.7	14.0
CSEB1510-330M	33.0	18.0	21.0	16.7	12.0

■ All data is tested based on 25℃ ambient temperature.
※1 Inductance measure condition at 100kHz, 0.1V.
※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 ΔT40℃(Ta=25℃).

Saturation Current Curve



Temperature Rise Current Curve



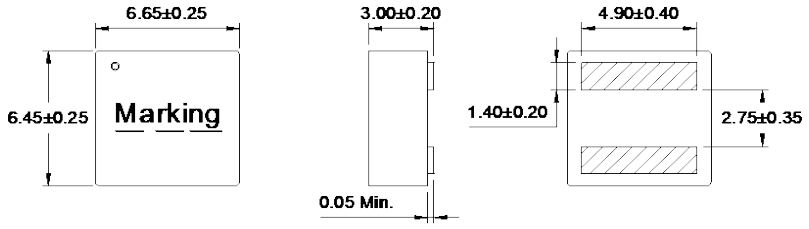
CSEC0630

Operating temperature range : -40℃～+125℃

Construction

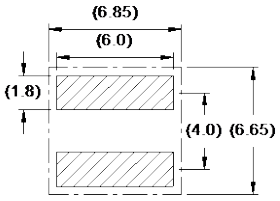
Wire

Appearance and Dimensions (mm)

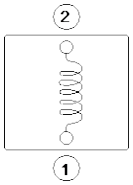


Marking

Reference Land Pattern (mm)



Schematic

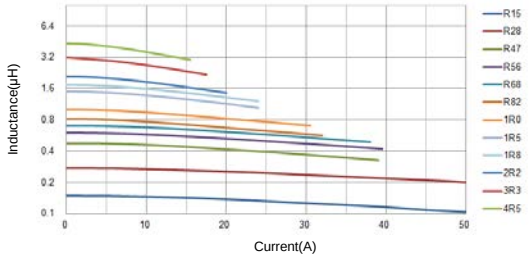


Electrical Characteristics

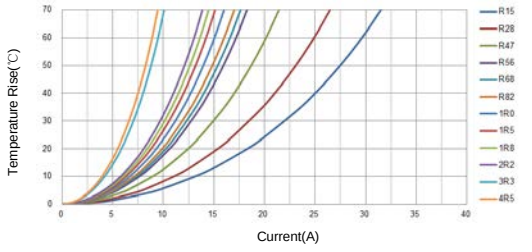
Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typical	Max	Typical	Typical
CSEC0630-R15M	0.15	1.58	1.95	46.0	25.0
CSEC0630-R28M	0.28	2.13	2.80	45.0	21.0
CSEC0630-R47M	0.47	2.93	3.71	33.5	17.0
CSEC0630-R56M	0.56	3.84	4.70	32.0	14.5
CSEC0630-R68M	0.68	4.30	5.28	31.0	14.0
CSEC0630-R82M	0.82	5.36	6.70	26.0	13.5
CSEC0630-1R0M	1.00	6.63	8.03	24.0	12.7
CSEC0630-1R5M	1.50	8.83	10.7	21.0	12.0
CSEC0630-1R8M	1.80	10.3	12.5	20.2	11.5
CSEC0630-2R2M	2.20	12.3	14.9	16.2	11.0
CSEC0630-3R3M	3.30	21.5	26.4	14.2	8.00
CSEC0630-4R5M	4.50	29.5	35.8	13.0	7.50

■ All data is tested based on 25℃ ambient temperature.
※1 Inductance measure condition at 100kHz, 0.1V.
※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 ΔT40℃(Ta=25℃).

Saturation Current Curve



Temperature Rise Current Curve



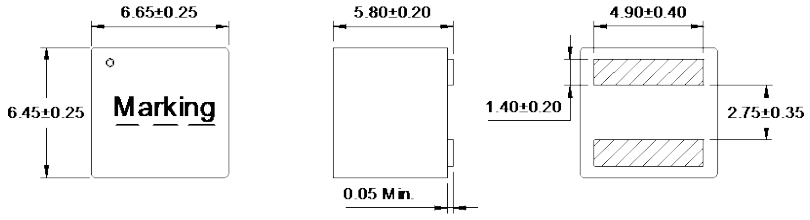
CSEC0660

Operating temperature range : -40℃～+125℃

Construction

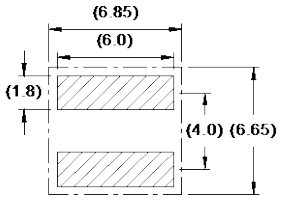
Wire

Appearance and Dimensions (mm)

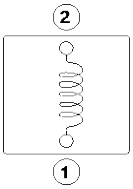


Marking

Reference Land Pattern (mm)



Schematic

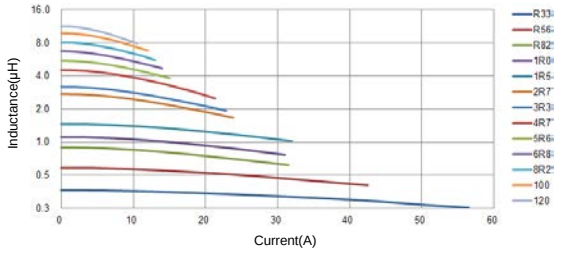


Electrical Characteristics

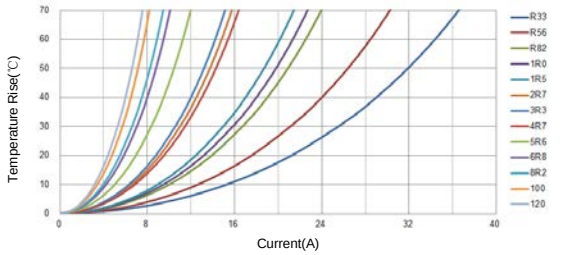
Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typical	Max	Typical	Typical
CSEC0660-R33M	0.33	1.89	2.69	43.0	29.0
CSEC0660-R56M	0.56	2.79	3.50	32.0	24.0
CSEC0660-R82M	0.82	4.15	5.30	27.0	19.0
CSEC0660-1R0M	1.00	4.63	5.64	26.0	18.0
CSEC0660-1R5M	1.50	5.45	6.70	25.0	17.0
CSEC0660-2R7M	2.70	11.8	14.5	16.0	12.5
CSEC0660-3R3M	3.30	13.2	15.9	15.5	12.0
CSEC0660-4R7M	4.70	16.3	19.8	14.5	10.5
CSEC0660-5R6M	5.60	18.7	22.6	13.0	9.50
CSEC0660-6R8M	6.80	22.6	27.8	12.2	8.00
CSEC0660-8R2M	8.20	27.3	33.4	11.4	7.50
CSEC0660-100M	10.0	34.9	42.4	9.60	6.50
CSEC0660-120M	12.0	38.1	46.0	8.80	6.00

■ All data is tested based on 25℃ ambient temperature.
※1 Inductance measure condition at 100kHz, 0.1V.
※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 ΔT40℃(Ta=25℃).

Saturation Current Curve



Temperature Rise Current Curve



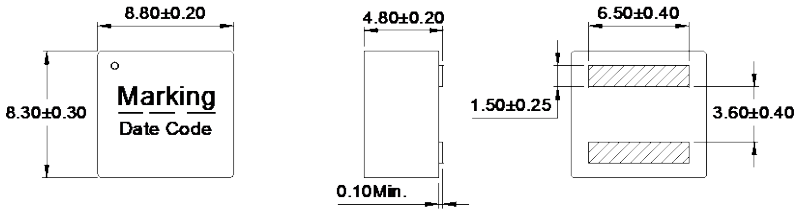
CSEC0850

Operating temperature range : -40℃～+125℃

Construction

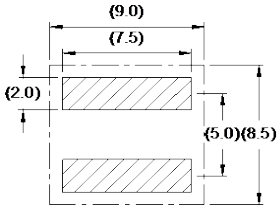
Wire

Appearance and Dimensions (mm)

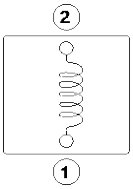


Marking

Reference Land Pattern (mm)



Schematic

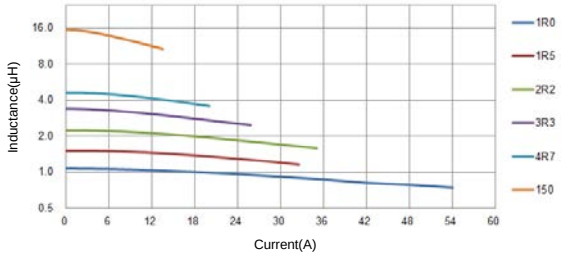


Electrical Characteristics

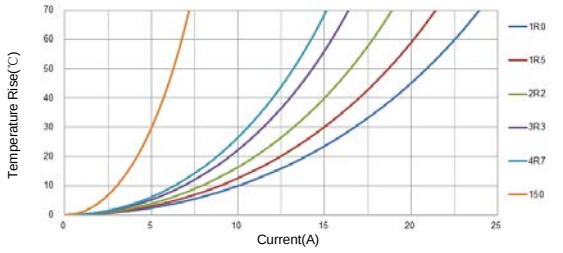
Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typical	Max	Typical	Typical
CSEC0850-1R0M	1.00	3.32	4.10	42.0	19.0
CSEC0850-1R5M	1.50	4.71	5.80	32.5	17.0
CSEC0850-2R2M	2.20	6.86	8.36	29.5	15.0
CSEC0850-3R3M	3.30	10.8	13.2	23.0	13.0
CSEC0850-4R7M	4.70	13.7	16.7	20.0	12.0
CSEC0850-150M	15.0	54.6	66.8	11.0	5.70

■ All data is tested based on 25℃ ambient temperature.
※1 Inductance measure condition at 100kHz, 0.1V.
※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 ΔT40℃(Ta=25℃).

Saturation Current Curve



Temperature Rise Current Curve



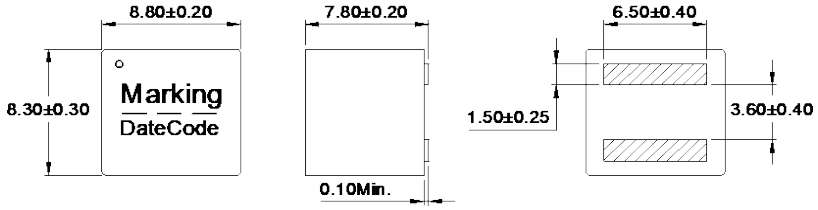
CSEC0880

Operating temperature range : -40℃～+125℃

Construction

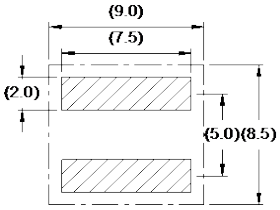
Wire

Appearance and Dimensions (mm)

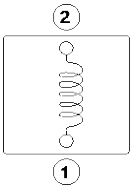


Marking

Reference Land Pattern (mm)



Schematic

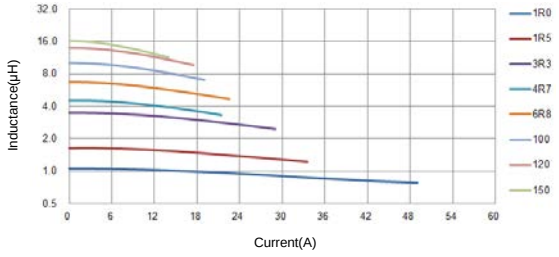


Electrical Characteristics

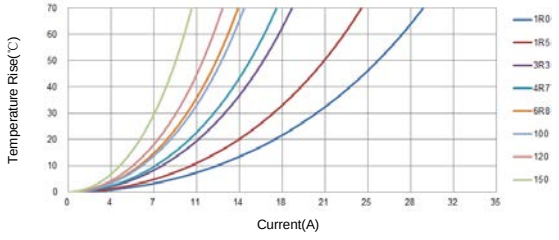
Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typical	Max	Typical	Typical
CSEC0880-1R0M	1.00	2.09	2.53	42.0	23.0
CSEC0880-1R5M	1.50	4.06	5.04	33.5	19.0
CSEC0880-3R3M	3.30	8.37	10.1	24.0	14.5
CSEC0880-4R7M	4.70	9.27	11.4	20.4	13.0
CSEC0880-6R8M	6.80	14.8	17.9	19.0	11.0
CSEC0880-100M	10.0	21.4	26.2	16.0	10.5
CSEC0880-120M	12.0	30.6	37.2	15.0	9.00
CSEC0880-150M	15.0	35.3	44.1	11.5	8.00

■ All data is tested based on 25℃ ambient temperature.
※1 Inductance measure condition at 100kHz, 0.1V.
※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 ΔT40℃(Ta=25℃).

Saturation Current Curve



Temperature Rise Current Curve



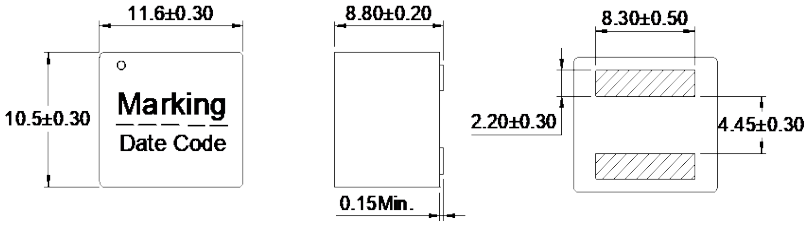
CSEC1090

Operating temperature range : -40℃～+125℃

Construction

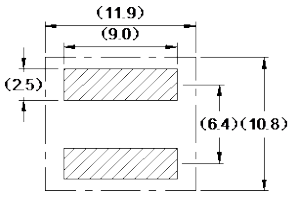
Wire

Appearance and Dimensions (mm)

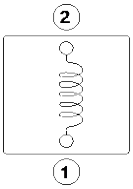


Marking

Reference Land Pattern (mm)



Schematic

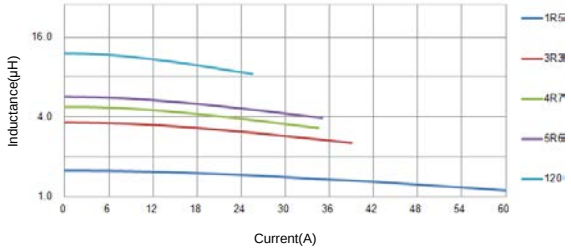


Electrical Characteristics

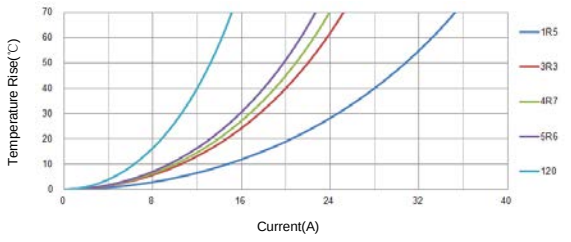
Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typical	Max	Typical	Typical
CSEC1090-1R5M	1.50	2.24	2.80	49.0	28.0
CSEC1090-3R3M	3.30	4.91	5.95	32.0	20.0
CSEC1090-4R7M	4.70	6.01	7.35	30.0	19.0
CSEC1090-5R6M	5.60	7.08	8.60	29.0	18.0
CSEC1090-120M	12.0	16.0	19.3	20.5	12.0

■ All data is tested based on 25℃ ambient temperature.
※1 Inductance measure condition at 100kHz, 0.1V.
※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 ΔT40℃(Ta=25℃).

Saturation Current Curve



Temperature Rise Current Curve



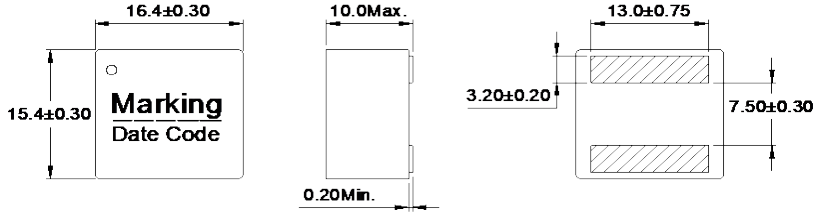
CSEC1510

Operating temperature range : -40℃～+125℃

Construction

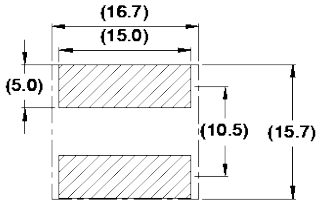
Wire

Appearance and Dimensions (mm)

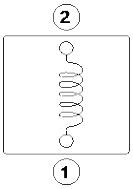


Marking

Reference Land Pattern (mm)



Schematic

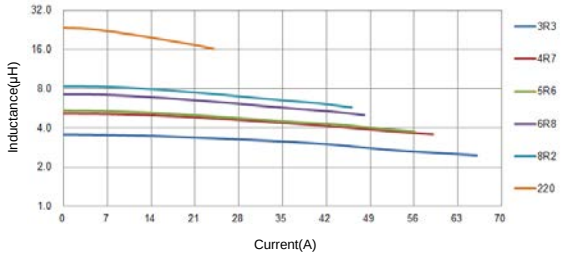


Electrical Characteristics

Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Saturation current (A)※2	Temperature rise current (A)※3
	±20%	Typical	Max	Typical	Typical
CSEC1510-3R3M	3.30	3.23	3.91	53.0	28.0
CSEC1510-4R7M	4.70	3.96	4.80	48.0	27.5
CSEC1510-5R6M	5.60	4.18	5.08	45.0	24.0
CSEC1510-6R8M	6.80	5.49	6.67	40.0	23.5
CSEC1510-8R2M	8.20	6.08	7.40	37.0	21.5
CSEC1510-220M	22.0	14.4	17.5	20.0	15.0

■ All data is tested based on 25℃ ambient temperature.
※1 Inductance measure condition at 100kHz, 0.1V.
※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 ΔT40℃(Ta=25℃).

Saturation Current Curve



Temperature Rise Current Curve