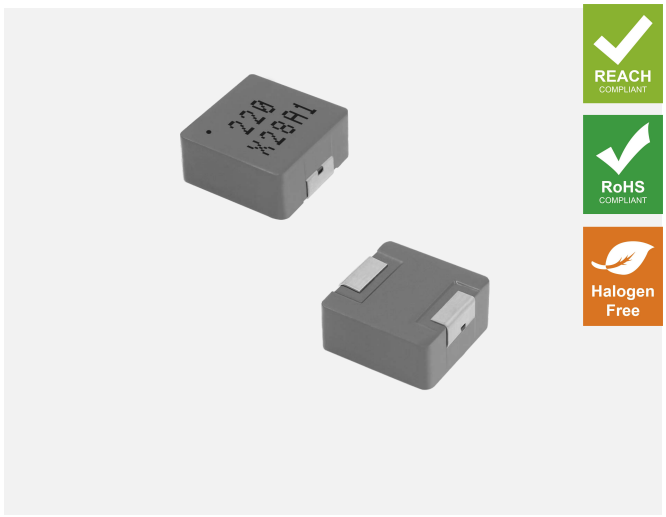
CODACA

Molding Power Choke
CSAC1265 Series



Construction Wire

Outline:

- Magnetic shielded structure:excellent resistance to electro Magnetic interference (EMI)
- A composite structure,ultra low buzz noise
- Die-casting by low loss carbonyl powder: low impedance, small parasitic capacitance.
- Lightweight design save space,suitable for high density SMT

Features:

- Core material:Carbonyl Powder
- Environmental: RoHS,Reach compliant ,Halogen free
- Weight:5.70g
- Moisture Sensitivity:Level (MSL) 1 (unlimited floor life at 5～40℃, RH≤70% relative humidity).
- Operating temperature range: -40℃～+125℃ (Including Self-heating)
- Storage temperature range: -40℃～+125℃

Application:

- DC /DC converters for entertainment/navigations systems
- Noise suppression for motors:windshield wipers/power seats/Power Mirrors/heating and ventilation blower/ HID lighting

1 Electrical Characteristics

Part No.	Inductance (μH)※1	D.C.R. (mΩ)		Isat (A)※2	Isat (A)※3	Irms (A) ※4
	±20%	Typical	Max.	Typical	Typical	Typical
CSAC1265-R22M	0.22	0.50	0.70	112	120	53.0
CSAC1265-R33M	0.33	0.82	0.95	65.0	81.0	46.0
CSAC1265-R47M	0.47	1.05	1.25	63.0	80.0	41.0
CSAC1265-R56M	0.56	1.25	1.48	62.0	79.0	35.0
CSAC1265-R68M	0.68	1.52	1.78	60.0	77.0	34.0
CSAC1265-R82M	0.82	1.60	1.90	50.0	73.0	33.0
CSAC1265-1R0M	1.00	1.70	2.10	46.0	65.0	31.0
CSAC1265-1R5M	1.50	2.60	3.00	42.0	53.0	27.0
CSAC1265-1R8M	1.80	2.70	3.20	40.0	51.0	25.0
CSAC1265-2R2M	2.20	3.60	4.20	37.0	50.0	22.0
CSAC1265-3R3M	3.30	5.30	6.50	30.0	42.0	18.0
CSAC1265-4R7M	4.70	7.60	8.70	28.0	33.0	14.0
CSAC1265-5R6M	5.60	8.40	10.0	26.0	32.0	13.5
CSAC1265-6R8M	6.80	11.8	13.5	22.0	29.0	12.0
CSAC1265-8R2M	8.20	15.8	18.5	20.0	28.0	10.5
CSAC1265-100M	10.0	18.6	22.0	18.0	25.0	10.0
CSAC1265-150M	15.0	26.0	30.0	12.0	15.0	8.50
CSAC1265-220M	22.0	38.5	44.0	11.0	14.0	7.00
CSAC1265-330M	33.0	63.5	73.0	9.00	11.0	5.50
CSAC1265-470M	47.0	91.5	105	7.00	9.00	5.00
CSAC1265-560M	56.0	114	135	6.20	8.00	4.00
CSAC1265-680M	68.0	135	160	5.50	7.00	3.50
CSAC1265-101M	100	182	220	4.80	6.70	3.00

All data is tested on 25℃ ambient temperature

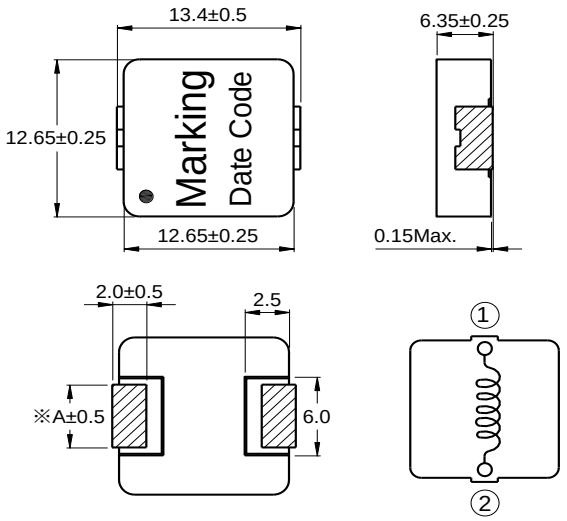
1.Inductance measure condition at 100kHz,1.0V

2.Isat:the actual value of DC current when the inductance decrease 20% of its initial value

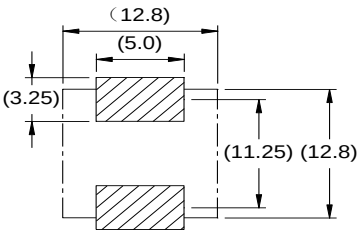
3.Isat:the actual value of DC current when the inductance decrease 30% of its initial value

4.Irms:the actual value of DC current when the temperature rise is ΔT40℃(Ta=25℃)

2 Product Dimensions (mm)



Part No.	R68, 2R2, 3R3,4R7,5R6	Others
Dimension A	3.00	3.70



Typical Pad Layout

3 How to Order:

CSAC1265-R33M

Model

Dimensions

Value Code

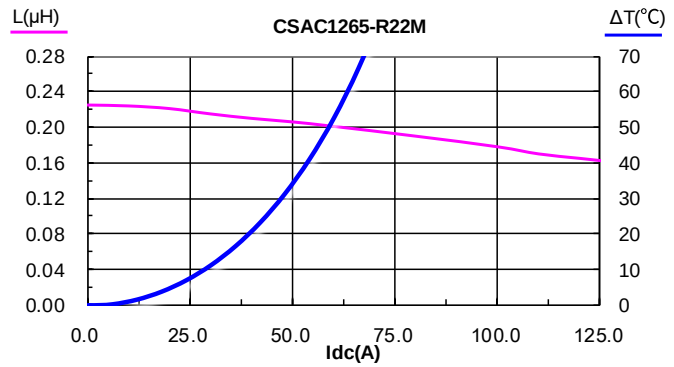
CODACA ELECTRONIC CO., LTD

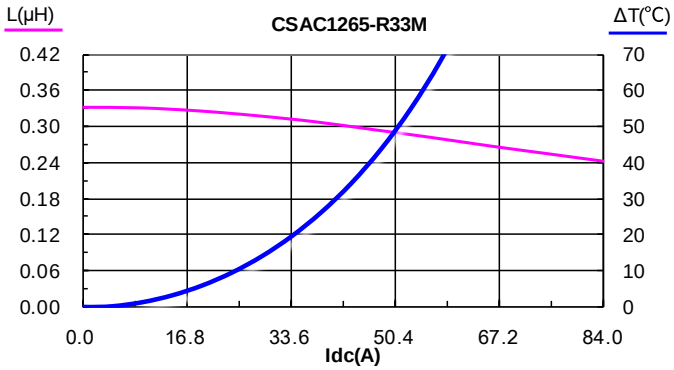
TEL: +86 755 89585372
http://www.codaca.com E-mail: info@codaca.com

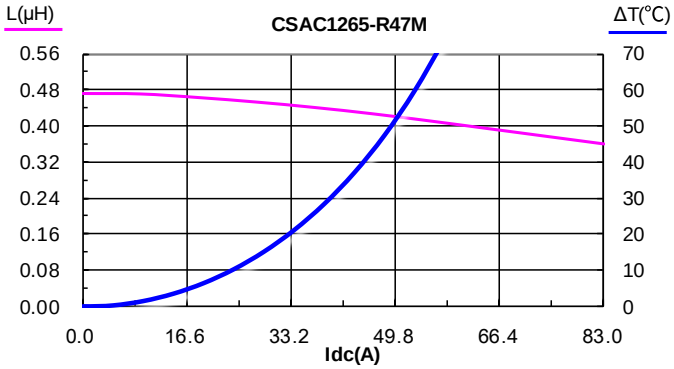
This product is not authorized for use in any application related to safety.
Specification subject to change without notice. Please check website for latest information.

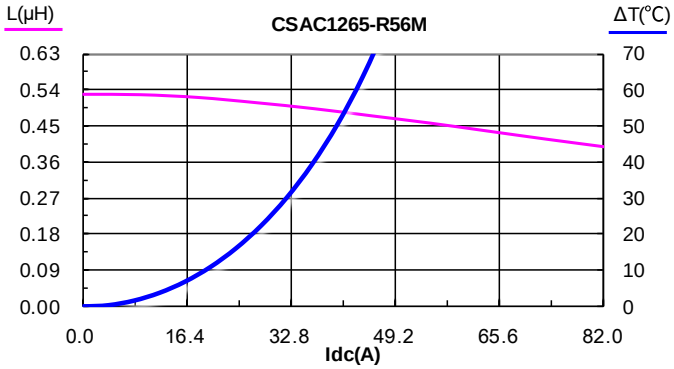
Revised: 06/23/2026

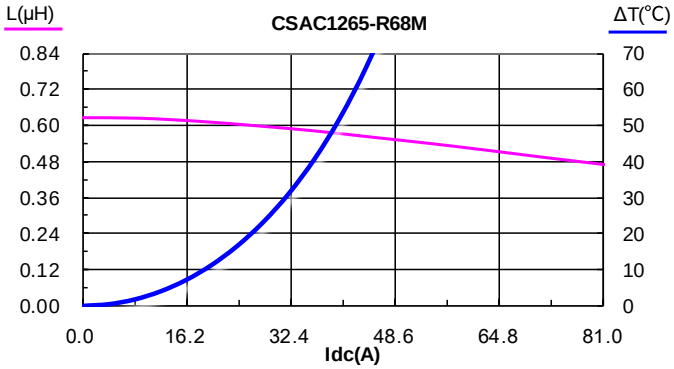
4 Saturation Current vs Temperature Rise Current Curve

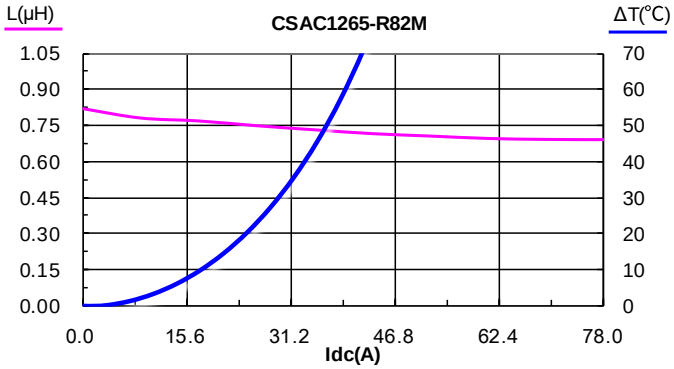


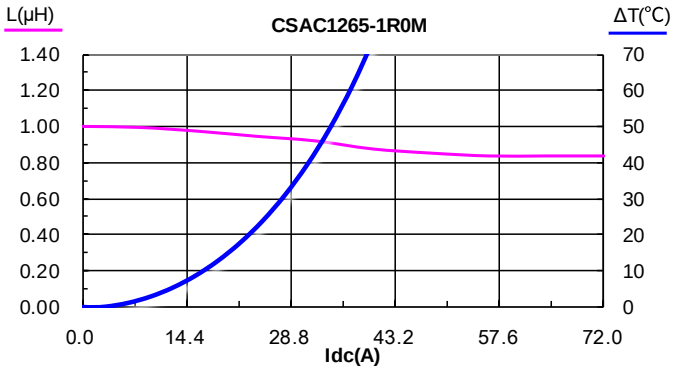


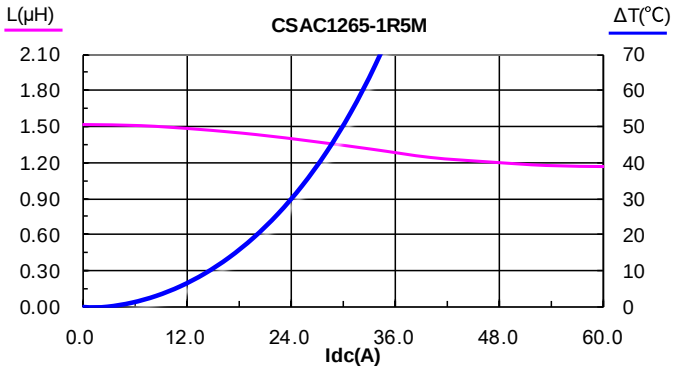


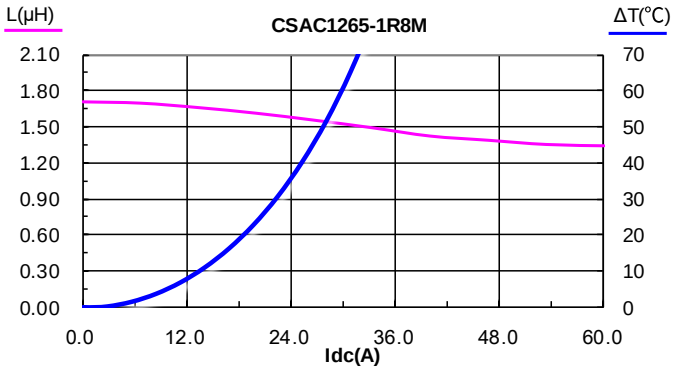


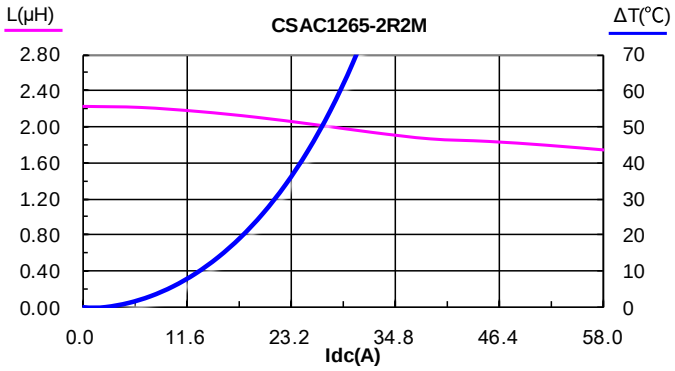


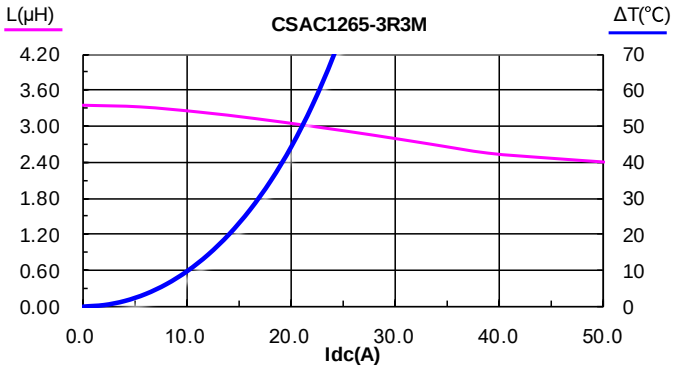


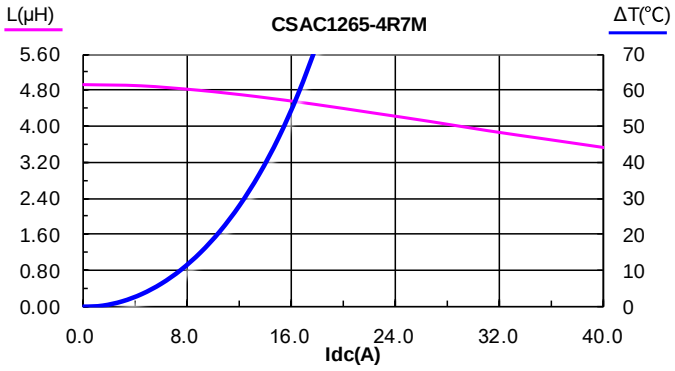


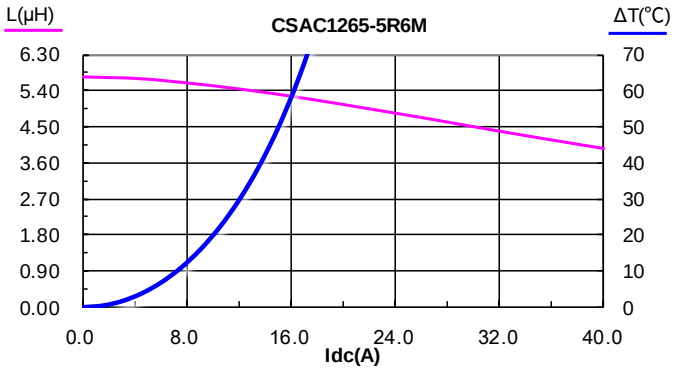


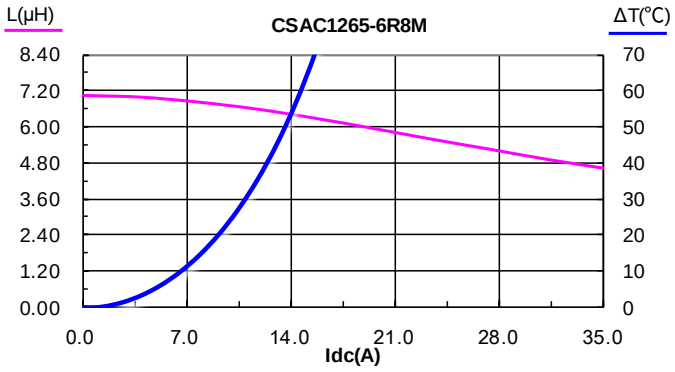

CSAC1265-1R8M
L(μH)
ΔT(℃)
2.10
1.80
1.50
1.20
0.90
0.60
0.30
0.00
70
60
50
40
30
20
10
0
0.0
12.0
24.0
36.0
48.0
60.0
Idc(A)

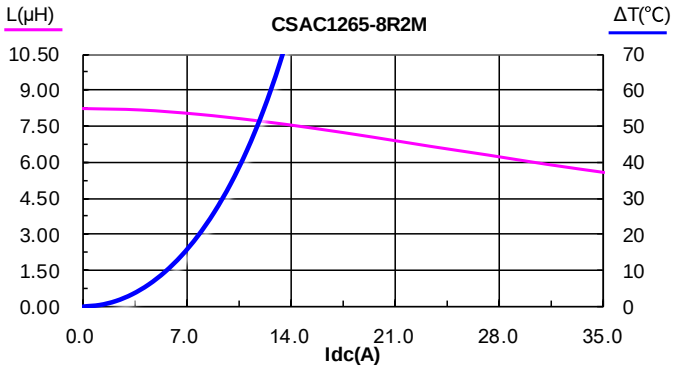

CSAC1265-2R2M
L(μH)
ΔT(℃)
2.80
2.40
2.00
1.60
1.20
0.80
0.40
0.00
70
60
50
40
30
20
10
0
0.0
11.6
23.2
34.8
46.4
58.0
Idc(A)

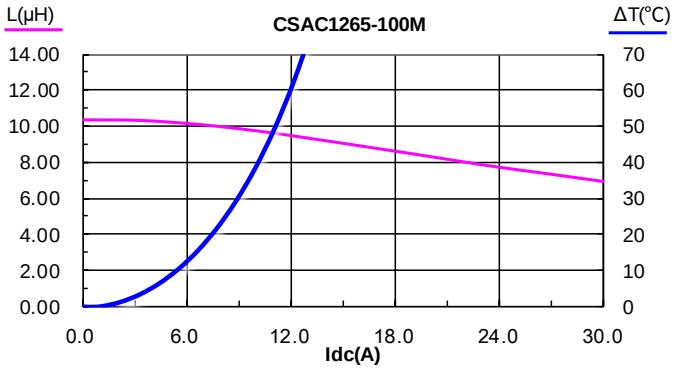

CSAC1265-3R3M
L(μH)
ΔT(℃)
4.20
3.60
3.00
2.40
1.80
1.20
0.60
0.00
70
60
50
40
30
20
10
0
0.0
10.0
20.0
30.0
40.0
50.0
Idc(A)

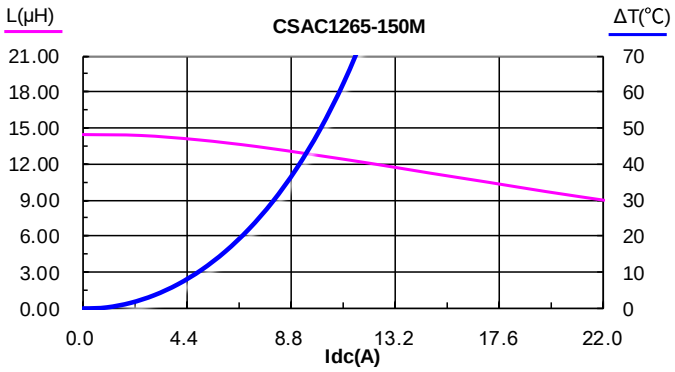

CSAC1265-4R7M
L(μH)
ΔT(℃)
5.60
4.80
4.00
3.20
2.40
1.60
0.80
0.00
70
60
50
40
30
20
10
0
0.0
8.0
16.0
24.0
32.0
40.0
Idc(A)

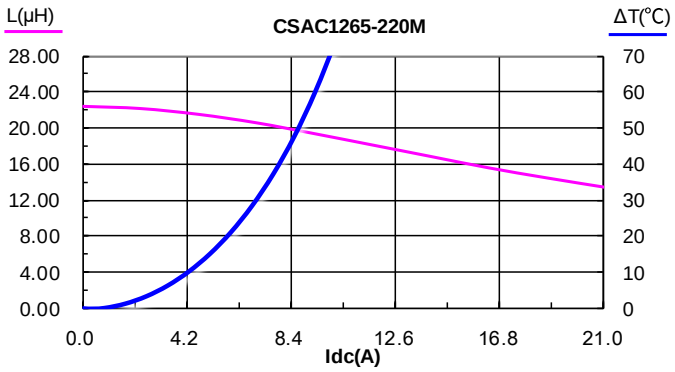

CSAC1265-5R6M
L(μH)
ΔT(℃)
6.30
5.40
4.50
3.60
2.70
1.80
0.90
0.00
70
60
50
40
30
20
10
0
0.0
8.0
16.0
24.0
32.0
40.0
Idc(A)

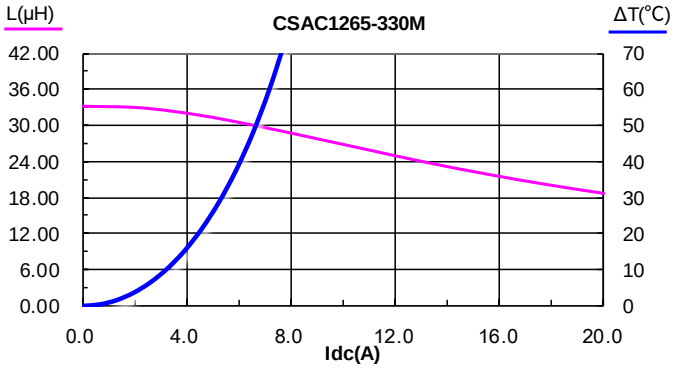

CSAC1265-6R8M
L(μH)
ΔT(℃)
8.40
7.20
6.00
4.80
3.60
2.40
1.20
0.00
70
60
50
40
30
20
10
0
0.0
7.0
14.0
21.0
28.0
35.0
Idc(A)

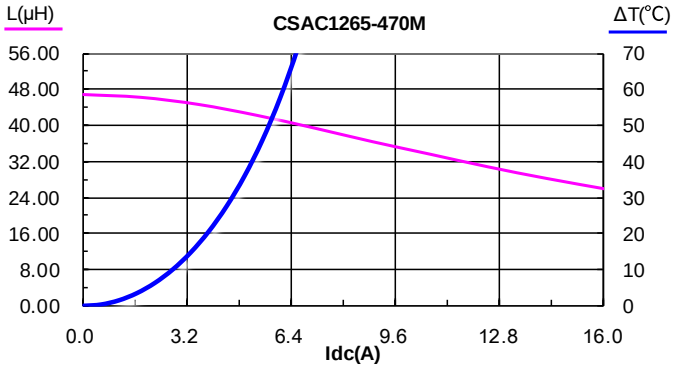

CSAC1265-8R2M
L(μH)
ΔT(℃)
10.50
9.00
7.50
6.00
4.50
3.00
1.50
0.00
70
60
50
40
30
20
10
0
0.0
7.0
14.0
21.0
28.0
35.0
Idc(A)

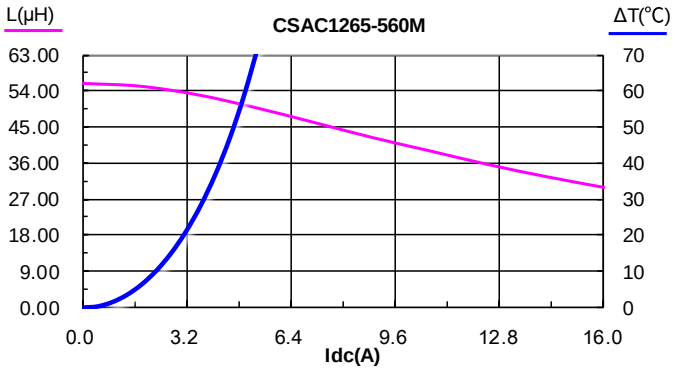

CSAC1265-100M
L(μH)
ΔT(℃)
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
70
60
50
40
30
20
10
0
0.0
6.0
12.0
18.0
24.0
30.0
Idc(A)

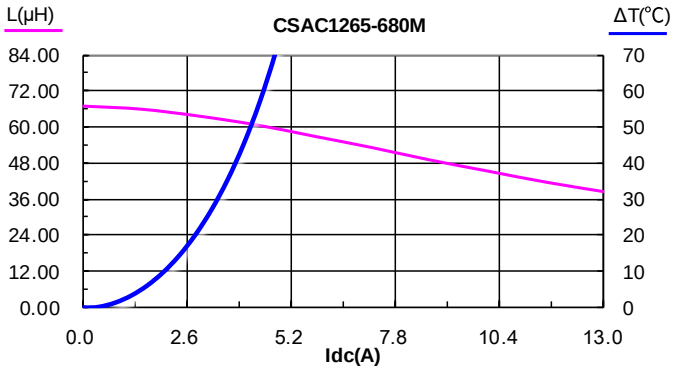

CSAC1265-150M
L(μH)
ΔT(℃)
21.00
18.00
15.00
12.00
9.00
6.00
3.00
0.00
70
60
50
40
30
20
10
0
0.0
4.4
8.8
13.2
17.6
22.0
Idc(A)

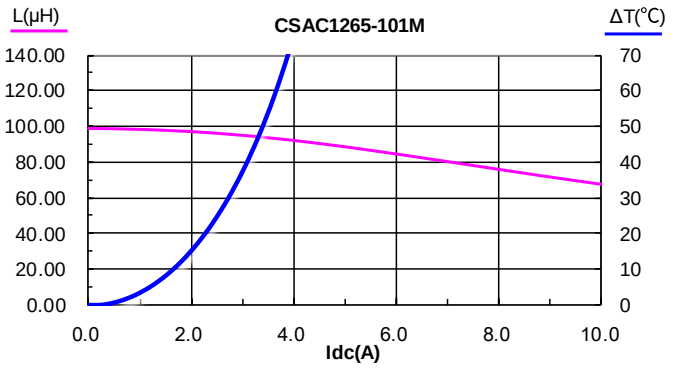

CSAC1265-220M
L(μH)
ΔT(℃)
28.00
24.00
20.00
16.00
12.00
8.00
4.00
0.00
70
60
50
40
30
20
10
0
0.0
4.2
8.4
12.6
16.8
21.0
Idc(A)


CSAC1265-330M
L(μH)
ΔT(℃)
42.00
36.00
30.00
24.00
18.00
12.00
6.00
0.00
70
60
50
40
30
20
10
0
0.0
4.0
8.0
12.0
16.0
20.0
Idc(A)


CSAC1265-470M
L(μH)
ΔT(℃)
56.00
48.00
40.00
32.00
24.00
16.00
8.00
0.00
70
60
50
40
30
20
10
0
0.0
3.2
6.4
9.6
12.8
16.0
Idc(A)

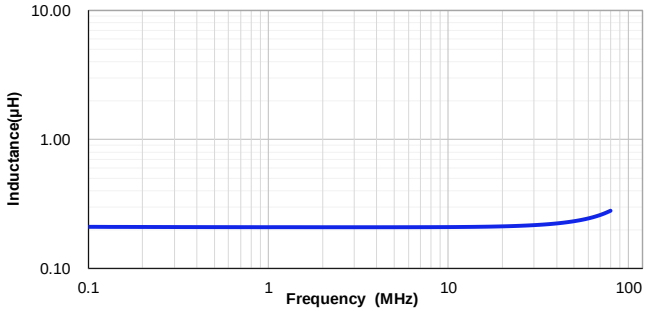

CSAC1265-560M
L(μH)
ΔT(℃)
63.00
54.00
45.00
36.00
27.00
18.00
9.00
0.00
70
60
50
40
30
20
10
0
0.0
3.2
6.4
9.6
12.8
16.0
Idc(A)


CSAC1265-680M
L(μH)
ΔT(℃)
84.00
72.00
60.00
48.00
36.00
24.00
12.00
0.00
70
60
50
40
30
20
10
0
0.0
2.6
5.2
7.8
10.4
13.0
Idc(A)

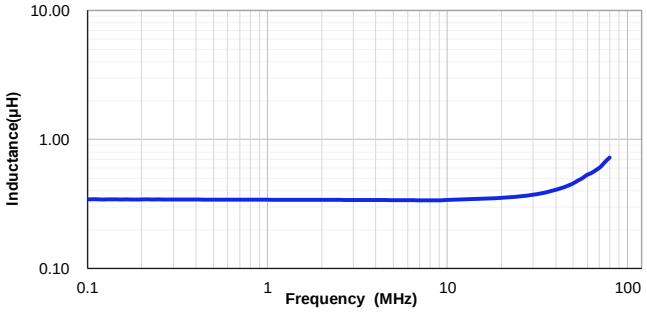

CSAC1265-101M
L(μH)
ΔT(℃)
140.00
120.00
100.00
80.00
60.00
40.00
20.00
0.00
70
60
50
40
30
20
10
0
0.0
2.0
4.0
6.0
8.0
10.0
Idc(A)

5 L vs Frequency

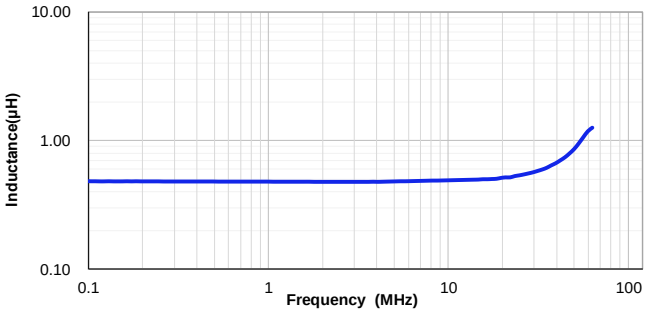
CSAC1265-R22M



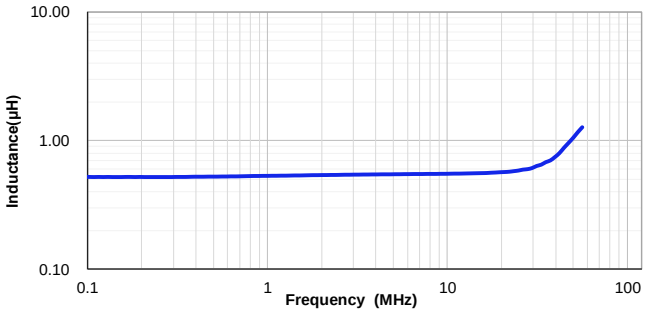
CSAC1265-R33M



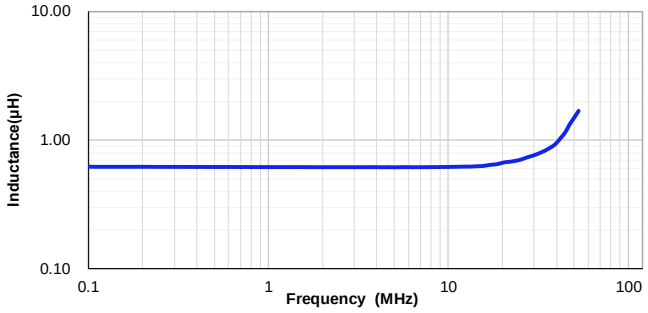
CSAC1265-R47M



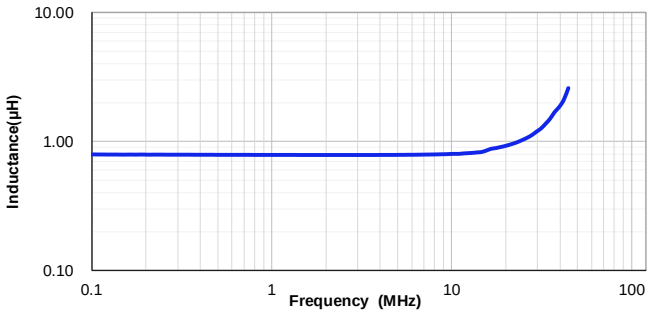
CSAC1265-R56M



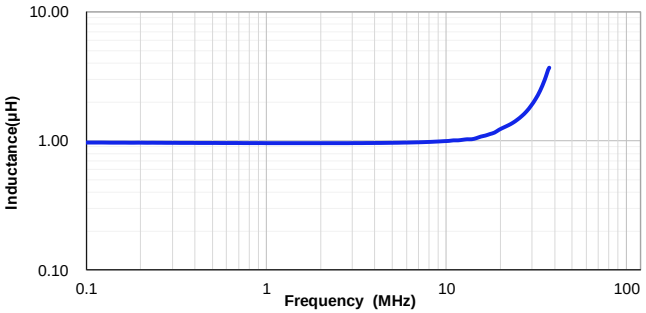
CSAC1265-R68M



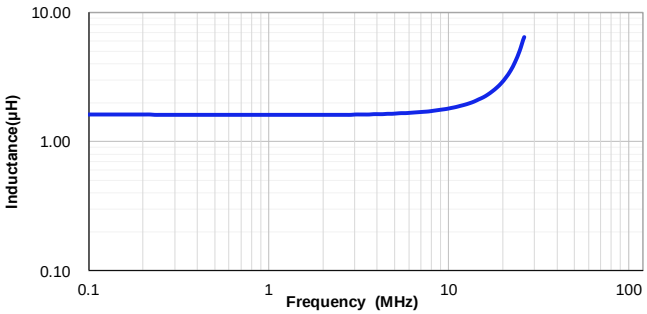
CSAC1265-R82M



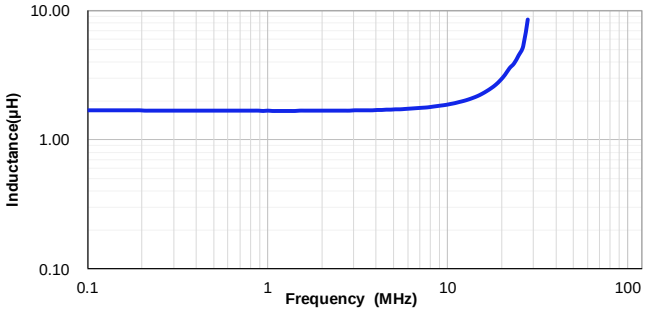
CSAC1265-1R0M



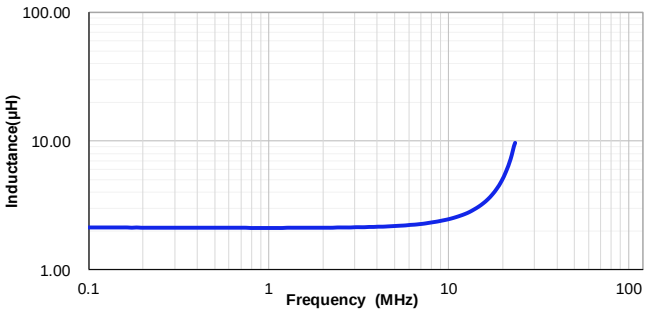
CSAC1265-1R5M



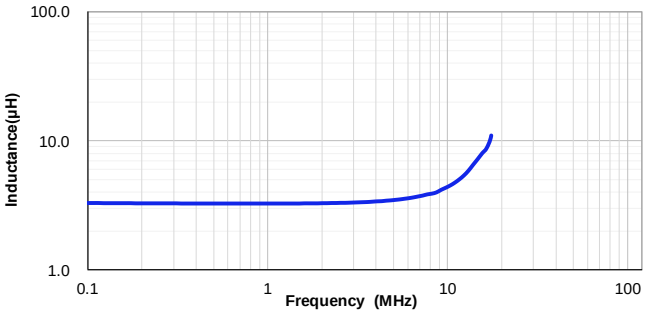
CSAC1265-1R8M



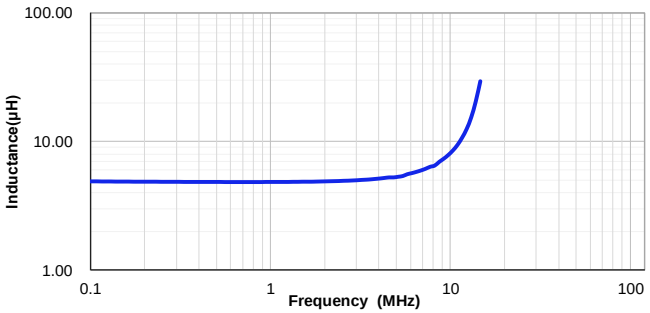
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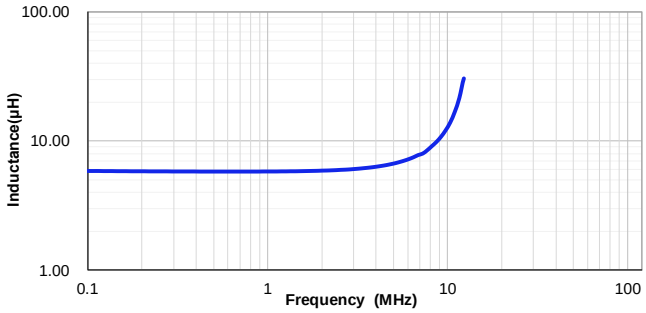
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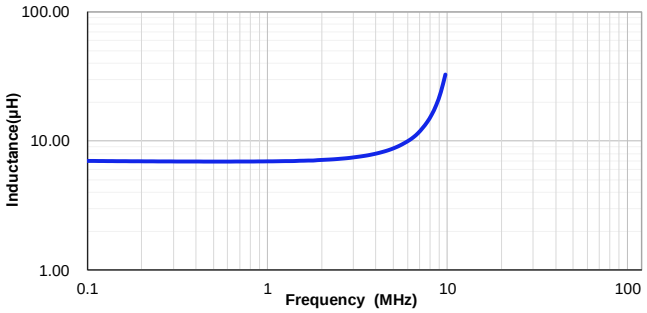
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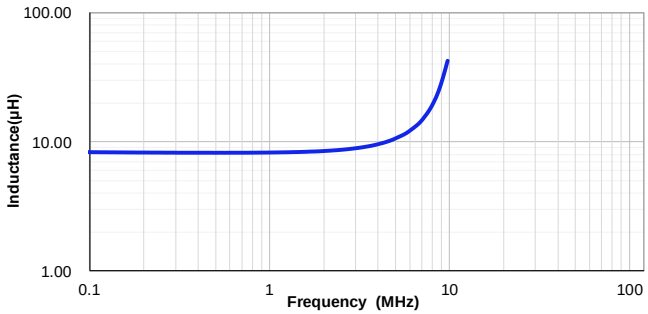
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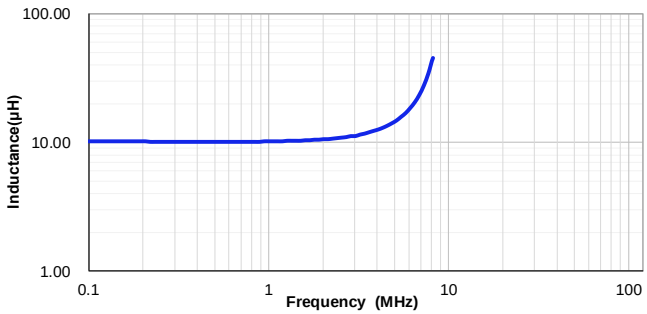
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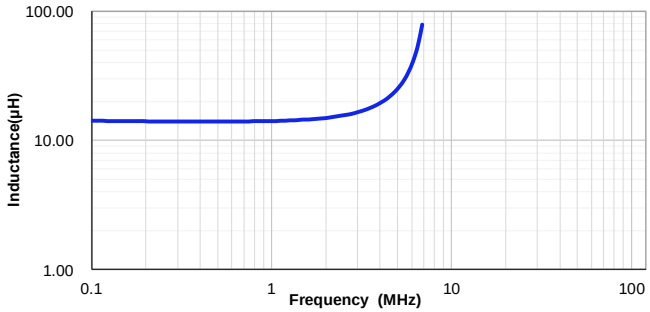
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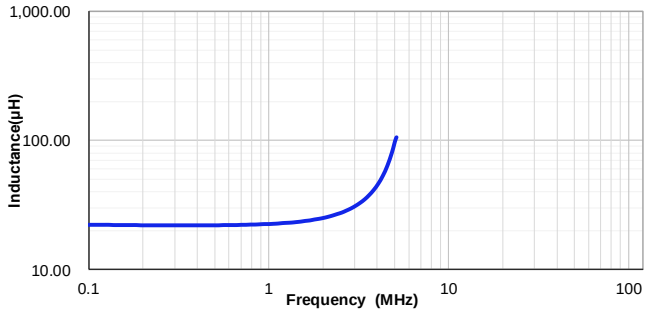
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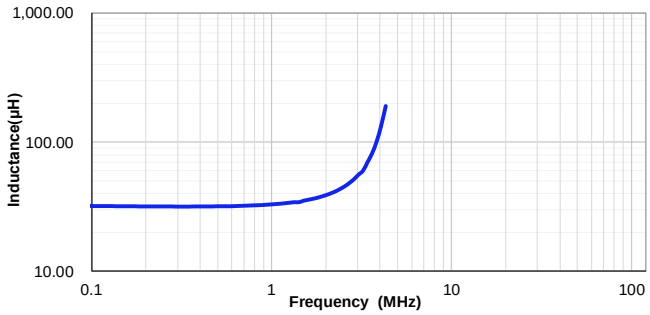
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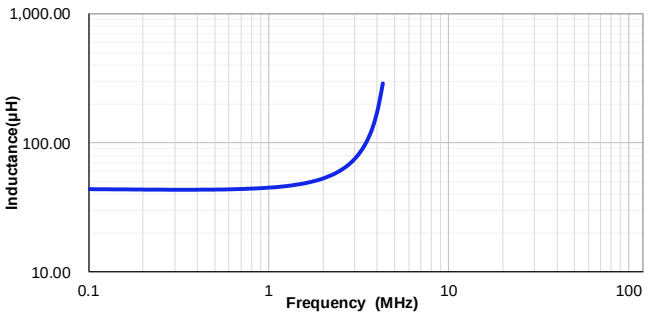
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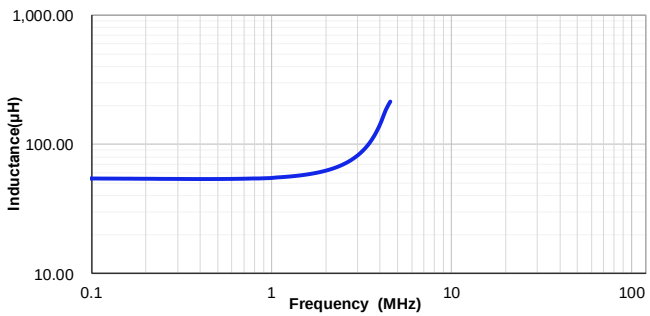
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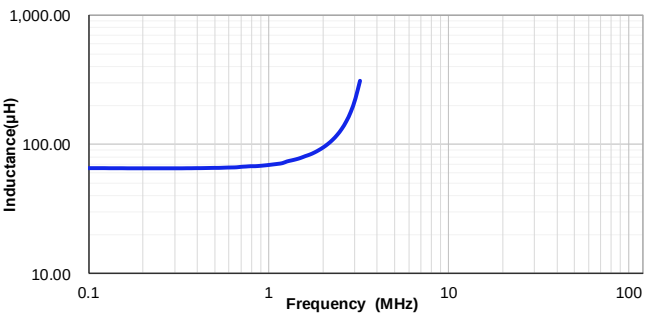
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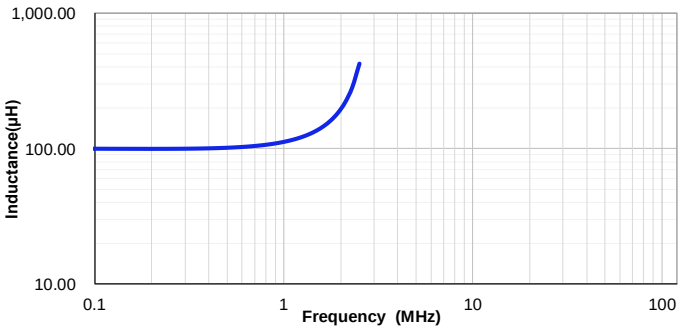
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CSAC1265-680M

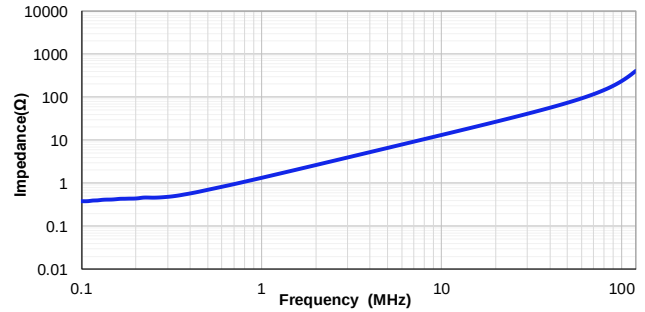


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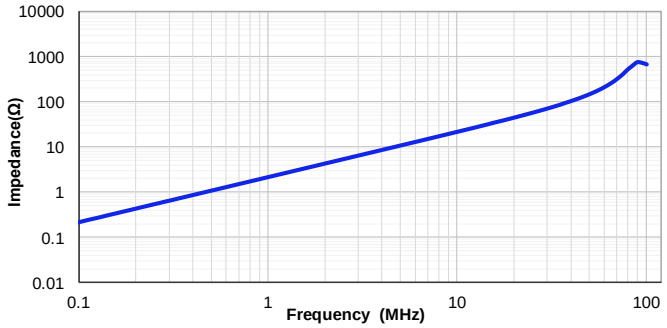


6 Impedance vs Frequency

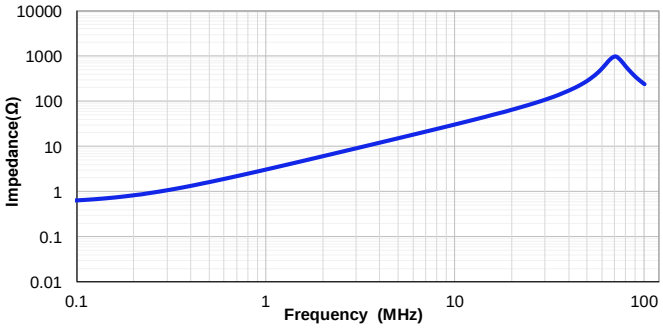
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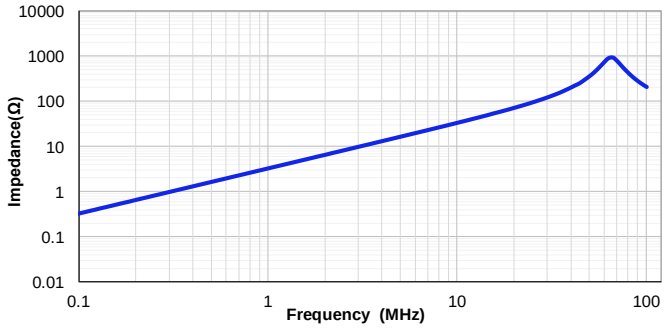
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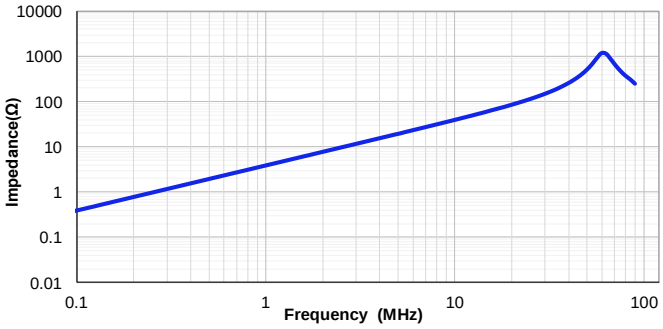
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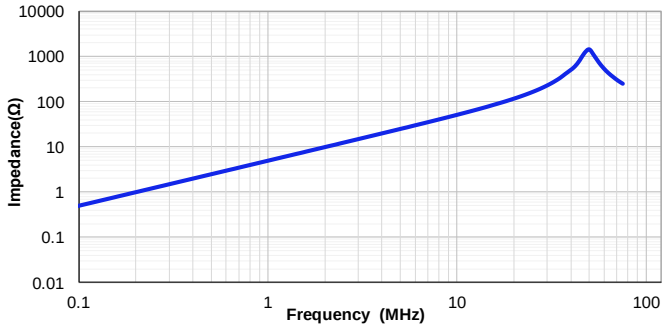
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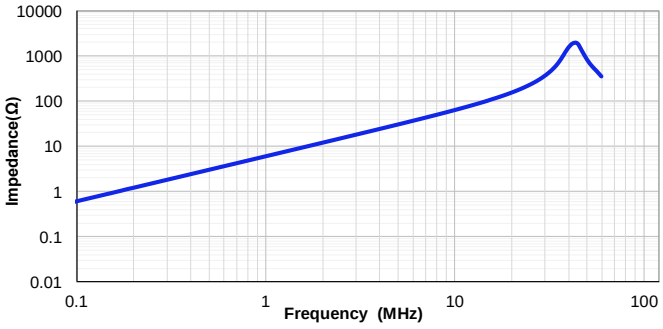
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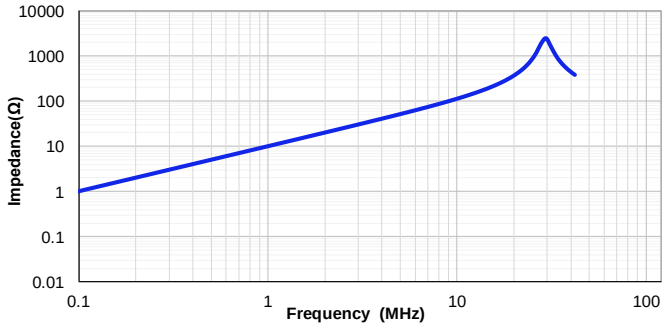
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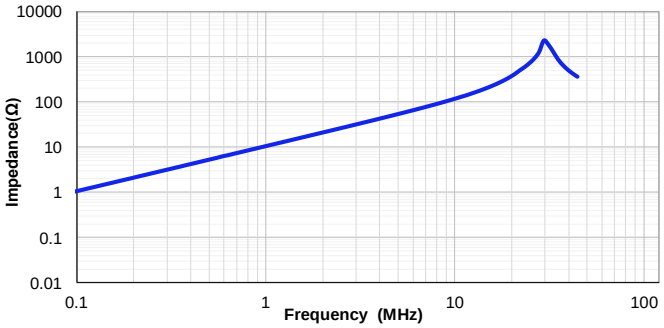
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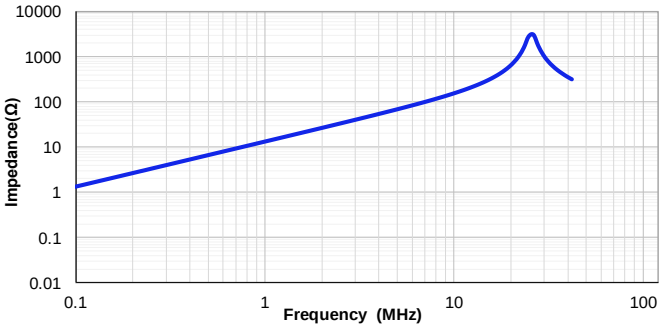
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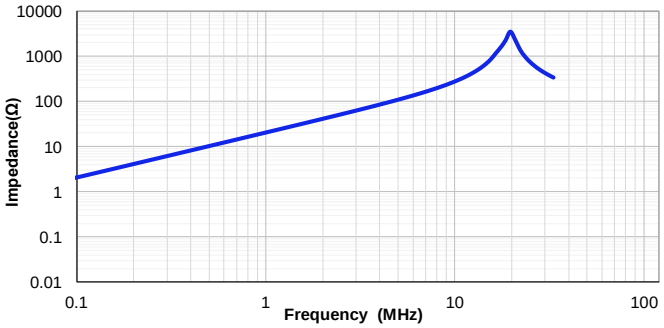
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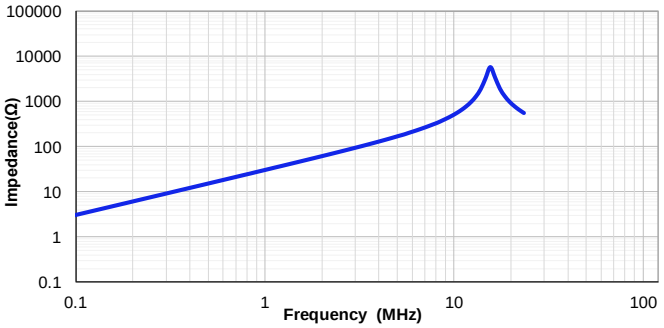
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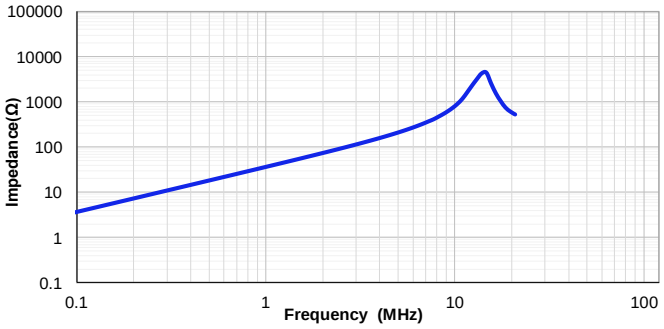
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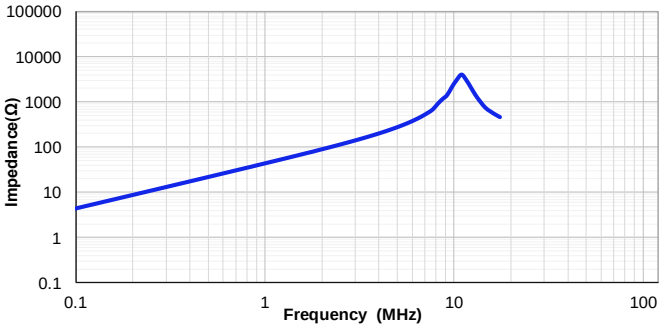
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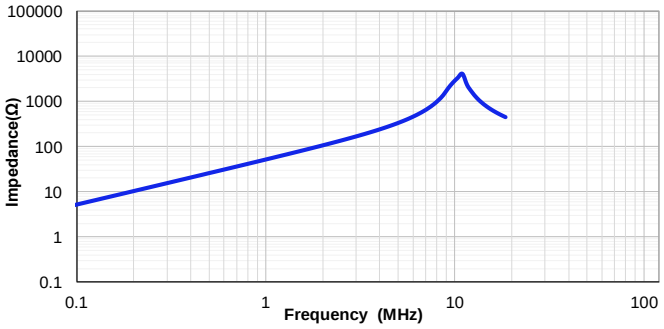
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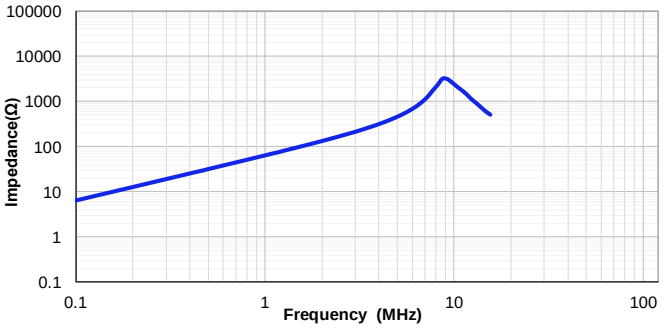
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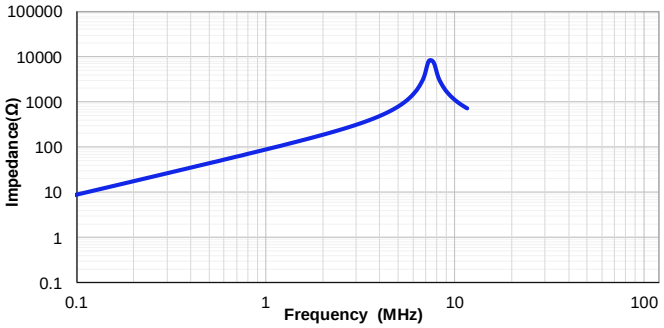
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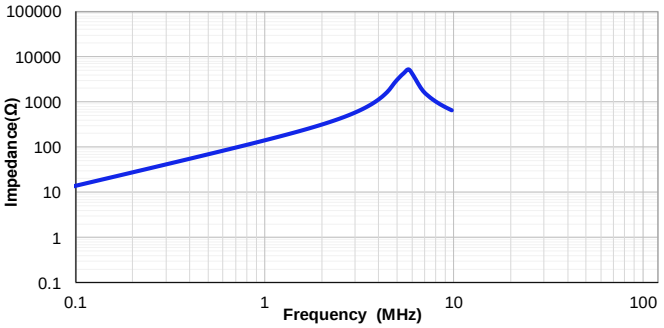
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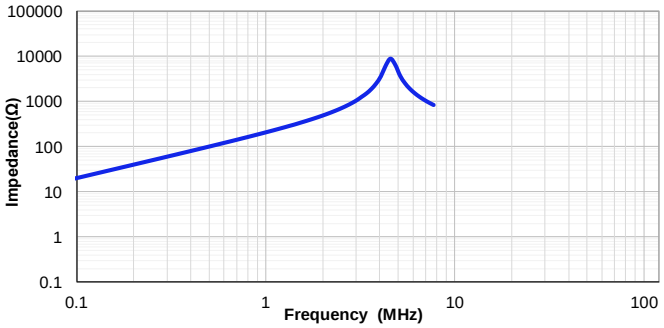
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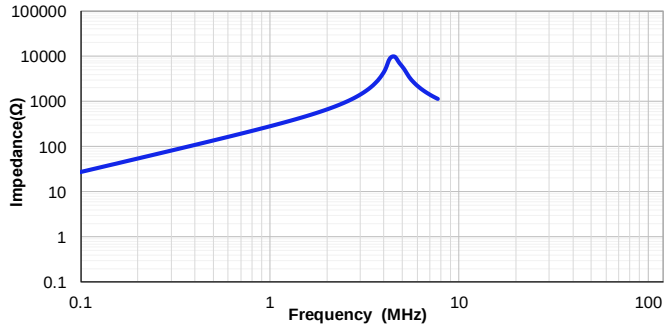
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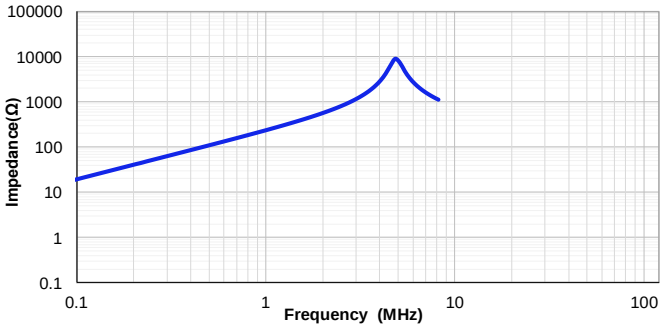
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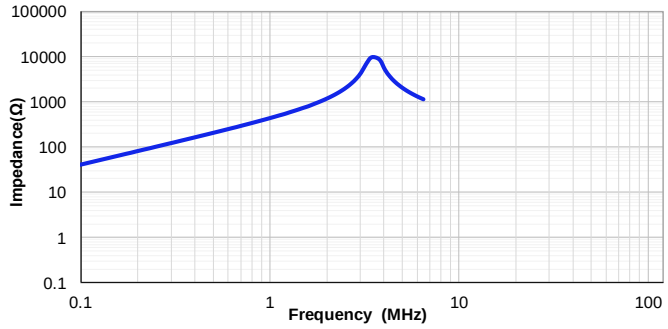
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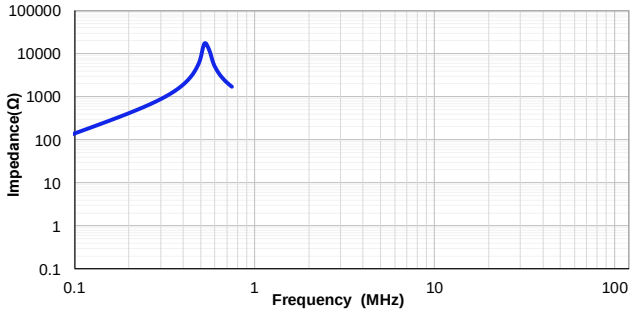
CSAC1265-560M



CSAC1265-680M

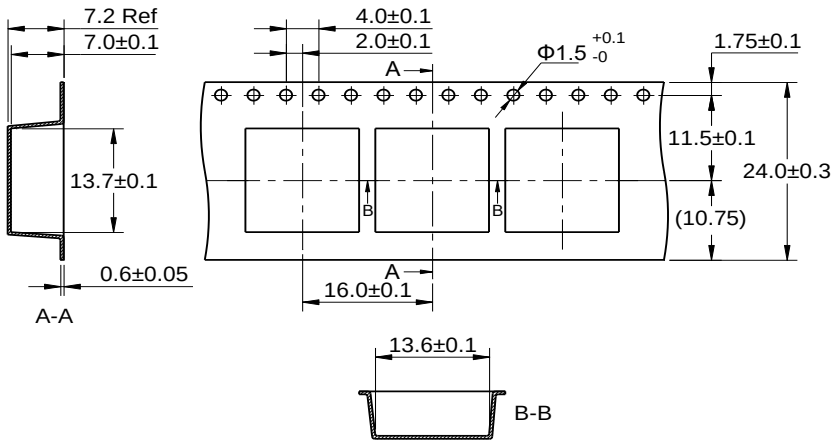


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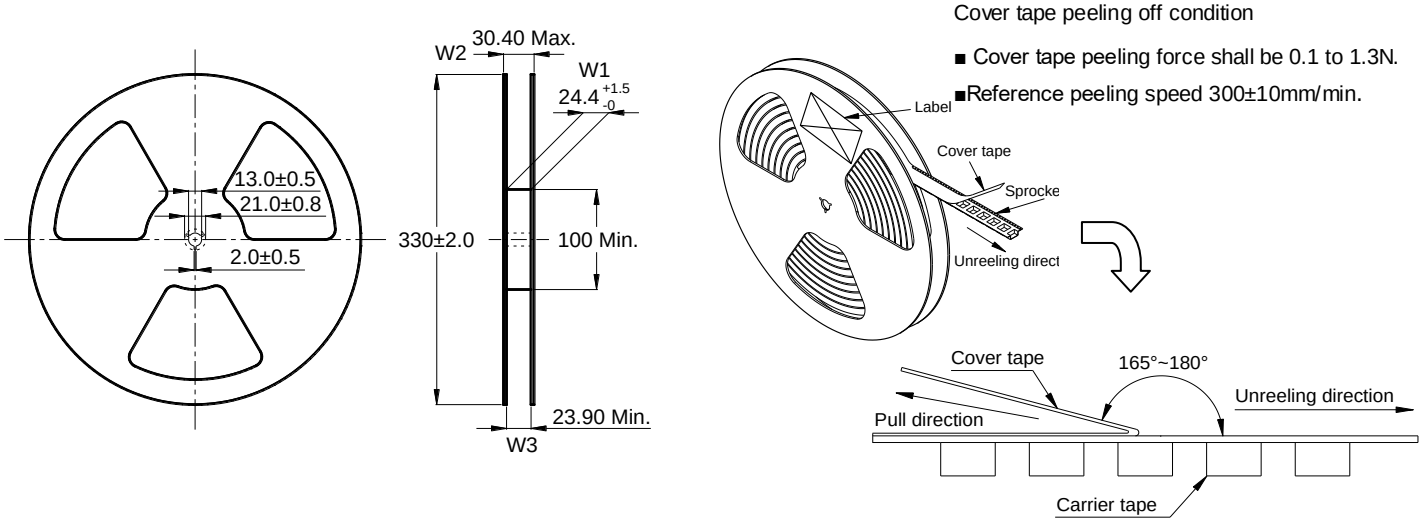
7 Packing Specification

7.1 Carrier Tape Dimensions (mm)



※ Packing is referred to the international standard IEC 60286-3.

7.2 Reel Dimensions (mm)



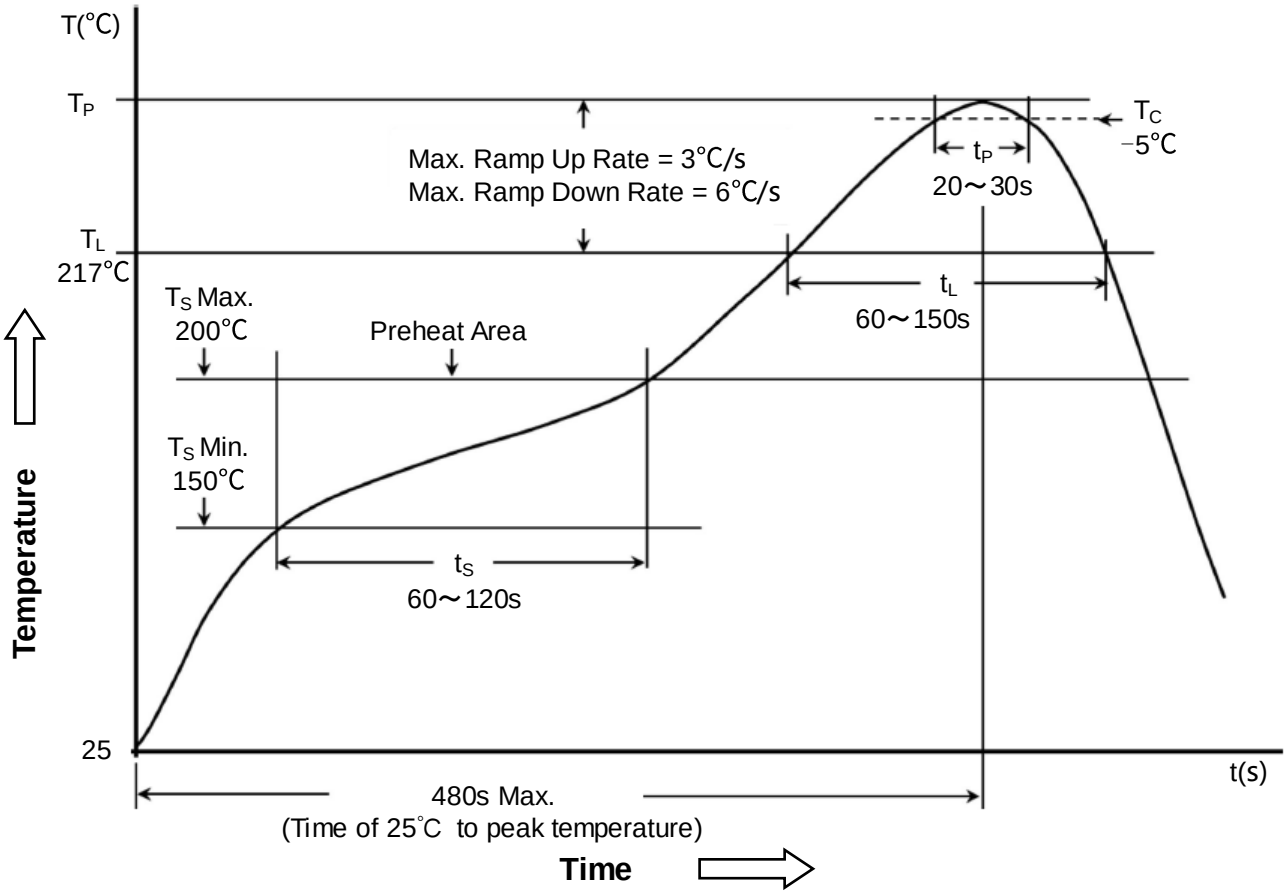
7.3 Carton Dimensions and Packing Quantity

■ Inner Carton：340×340×95mm ■ Outer Carton ：360×360×370mm

Product Series	Quantity / Reel	Inner Carton Quantity	Outer Carton Quantity
CSAC1265	400pcs	(400×2) = 800pcs	(800×3) = 2400pcs

8 Soldering Specification

8.1 Reflow Profile for SMT Components



8.2 Classification of Peak Package Body Temperature (T_P)

	Package Thickness	Package Volume		
		<350 mm^3	350～2000 mm^3	>2000 mm^3
PB-Free Assembly	<1.6mm	260°C	260°C	260°C
	1.6～2.5mm	260°C	250°C	245°C
	≥2.5mm	250°C	245°C	245°C

※ Reflow is referred to standard IPC/JEDEC J-STD-020E.

9 Notice of Use

9.1 Special remind:Circuit design, component placement, PCB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.

9.2 Product in packing storage condition:temperature 5～40℃, RH≤70%.
If taking out for use, the remaining products should be sealed in plastic bags and preserved in accordance With the above conditions, to avoid oxidation of terminals (electrodes), affecting soldering status.

9.3 A storage of Codaca Electronic products for longer than 12 months is not recommended, Within other effects, the terminals may suffer degradation, resulting in bad solderability. Therefore, all products shall be used within the period of 12 months based on the day of shipment.

9.4 Do not keep products in unsuitable storage conditions, such as areas susceptible to high temperatures, high humidity, dust or corrosion.

9.5 Always handle products with care.

9.6 Don't touch electrodes directly with bare hands as oil secretions may inhibit soldering. Always ensure optimum conditions for soldering.

9.7 When this product will be used on a similar or new project to the original one, sometimes it might be unable to satisfy the specifications due to different condition of usage.

9.8 This inductor itself does not have any protective function in abnormal condition, such as overload, short-circuit, open-circuit conditions, etc. Therefore, it shall be confirmed that there is no risk of smoke, fire, dielectric withstand voltage, insulation resistance, etc., or use in abnormal conditions protective devices or protection circuit in the end product.

9.9 Hi-Pot test with higher voltage than spec value will damage insulating material and shorten its life.

9.10 If using in potting compound, the magnet wire coating might be damaged, please consult with us.

9.11 Refrain from rinsing product. If necessary, please consult with us.

*9.12 Codaca Electronic products without "V" prefix are qualified for industrial product requirement , and with "V" prefix are qualified for AEC-Q200, but it doesn't mean that Codaca Electronic products can absolutely meet specific industry norms and quality test standards in automotive electronics or more strict application fields . Codaca Electronic will be exempted from being responsible for the consequences of using Codaca products in automotive electronic or higher application field related to safety when without being aware of it.