CER8042B

■ Features

- Cost competitive shielded type inductor
- SMD magnetic shielded type of power inductor
- Suitable for power supply choke coil
- High current, Low resistance
- Operating temperature：-40℃～+125℃(The self-heating is included)

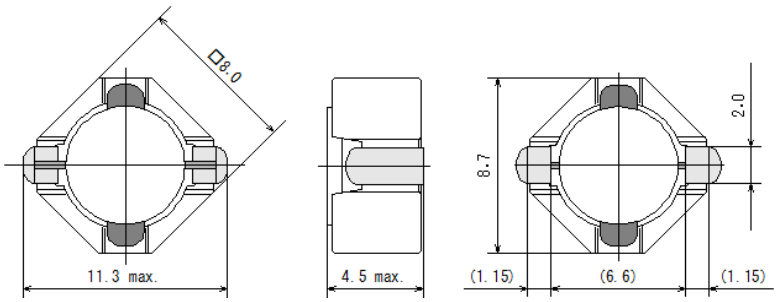
Magnetic structure：

Weight： 0.91 g

■ Applications

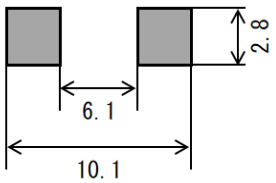
- Audio Visual/TV and Monitor,Mini System, AV Amplifier, for Professionals,Camera,Recorder
- Automotive/LED Headlights
- Computer & Peripheral Device/Computer,Printer(MFP),Industorial Machines
- Home Electronics/LED Lights
- Others/Energy,Power Supply,Transceivers,FA,Medical

■ Dimensions



(Unit：mm)

■ Recommended Land Pattern



(Unit：mm)

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(2025.03)

■ Specifications

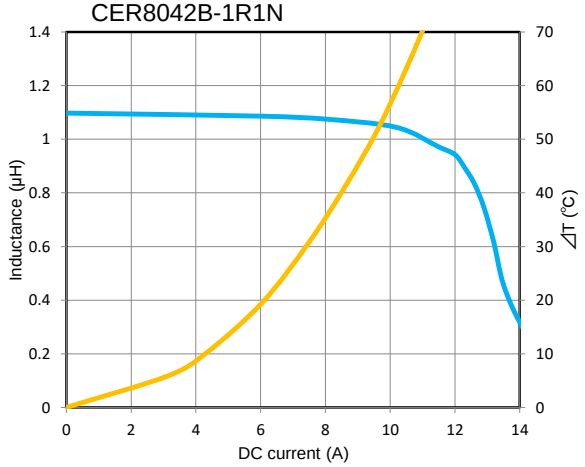
SAGAMI Part No.	Inductance (μH)	DCR (Ω) ±30%	DC Saturation Allowable Current (A)		Temperature Rise Allowable Current (A)	
			Typical	Spec	Typical	Spec
CER8042B-1R1N	1.1±30%	0.00600	13.2	10.2	8.00	6.05
CER8042B-1R6N	1.6±30%	0.00700	10.8	8.50	7.15	5.35
CER8042B-2R2N	2.2±30%	0.0100	8.90	7.00	6.15	4.60
CER8042B-3R0N	3±30%	0.0120	8.00	6.20	5.50	4.15
CER8042B-3R9N	3.9±30%	0.0160	7.15	5.30	4.65	3.50
CER8042B-4R7N	4.7±30%	0.0200	6.35	4.80	4.20	3.15
CER8042B-6R2N	6.2±30%	0.0240	5.80	4.40	3.85	2.85
CER8042B-6R8N	6.8±30%	0.0290	5.20	4.00	3.50	2.60
CER8042B-8R2N	8.2±30%	0.0370	4.65	3.80	3.10	2.30
CER8042B-100M	10±20%	0.0390	4.50	3.50	2.95	2.20
CER8042B-120M	12±20%	0.0490	4.15	3.20	2.70	2.00
CER8042B-150M	15±20%	0.0620	3.65	2.80	2.35	1.75
CER8042B-180M	18±20%	0.0720	3.15	2.55	2.20	1.60
CER8042B-220M	22±20%	0.0850	2.95	2.30	2.05	1.50
CER8042B-270M	27±20%	0.100	2.75	2.00	1.85	1.35
CER8042B-330M	33±20%	0.120	2.45	1.85	1.70	1.25
CER8042B-390M	39±20%	0.150	2.20	1.70	1.55	1.10
CER8042B-470M	47±20%	0.170	2.00	1.50	1.45	1.05
CER8042B-560M	56±20%	0.210	1.90	1.40	1.30	0.940
CER8042B-680M	68±20%	0.240	1.70	1.30	1.20	0.870
CER8042B-820M	82±20%	0.300	1.55	1.15	1.05	0.780
CER8042B-101M	100±20%	0.360	1.40	1.10	1.00	0.710
CER8042B-121M	120±20%	0.450	1.25	1.00	0.890	0.640
CER8042B-151M	150±20%	0.540	1.10	0.900	0.810	0.580
CER8042B-181M	180±20%	0.690	1.00	0.800	0.720	0.510
CER8042B-221M	220±20%	0.770	0.950	0.700	0.680	0.480
CER8042B-271M	270±20%	0.960	0.860	0.650	0.610	0.430
CER8042B-331M	330±20%	1.20	0.750	0.600	0.550	0.380
CER8042B-391M	390±20%	1.54	0.720	0.550	0.480	0.340
CER8042B-471M	470±20%	1.70	0.660	0.500	0.460	0.320
CER8042B-561M	560±20%	2.16	0.600	0.470	0.410	0.280
CER8042B-681M	680±20%	2.39	0.550	0.430	0.390	0.270
CER8042B-821M	820±20%	3.05	0.490	0.390	0.340	0.240
CER8042B-102M	1000±20%	3.49	0.450	0.350	0.320	0.220

Inductance Measuring Condition:100kHz,1V
DC saturation allowable current:The current value which inductance decrease within 30% from the initial value
Temperature rise allowable current:The rise in temperature of core surface is within 40℃

DC bias characteristics vs Temperature Rise Graph

L(25℃)　　⊿T

CER8042B-1R1N



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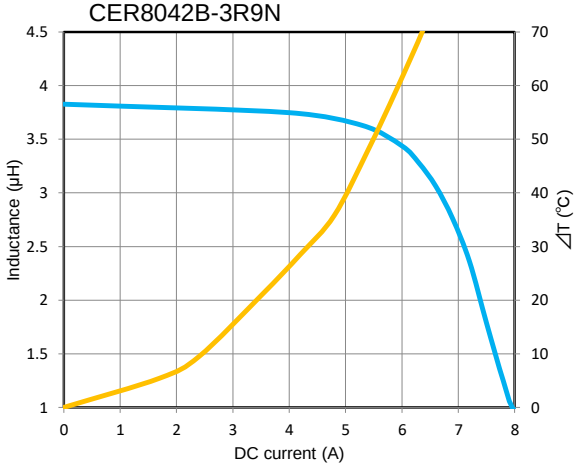

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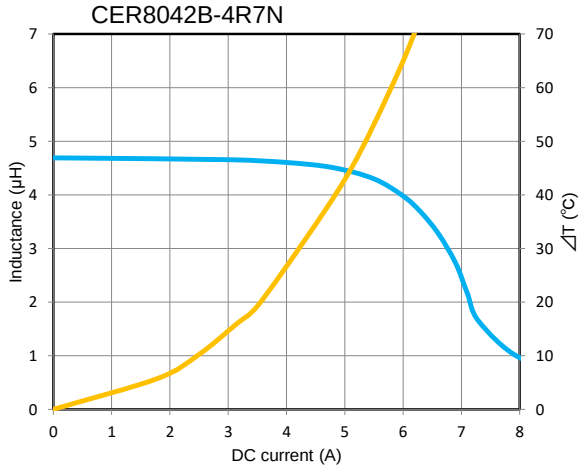

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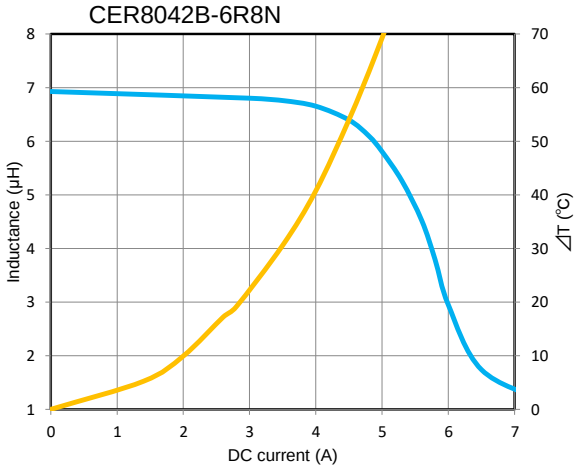

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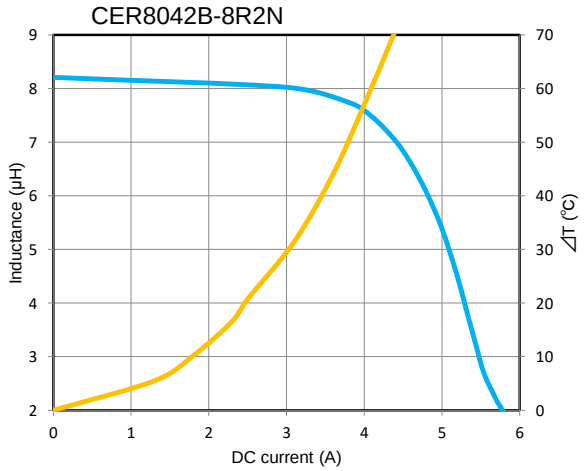
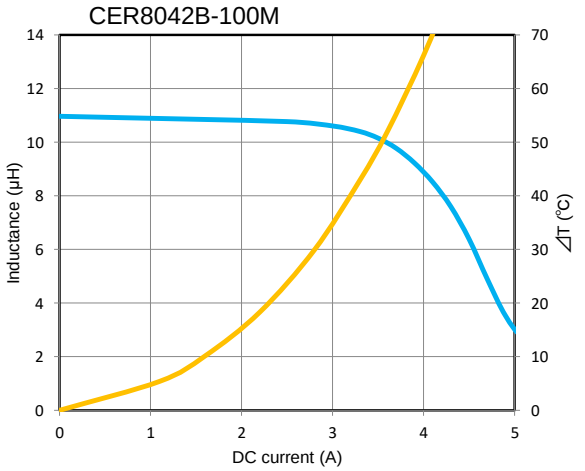


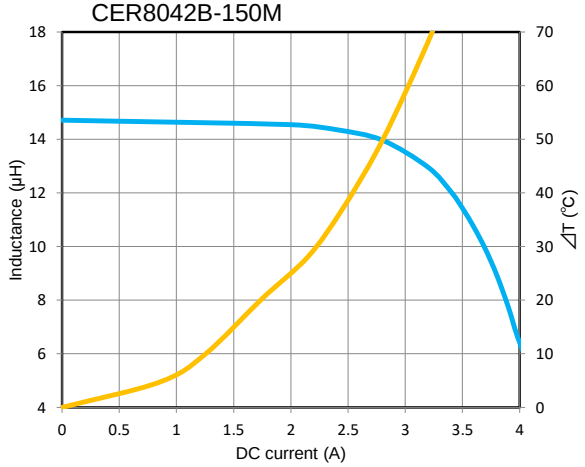
CER8042B-100M



DC bias characteristics vs Temperature Rise Graph

L(25℃) ⊿T

CER8042B-150M



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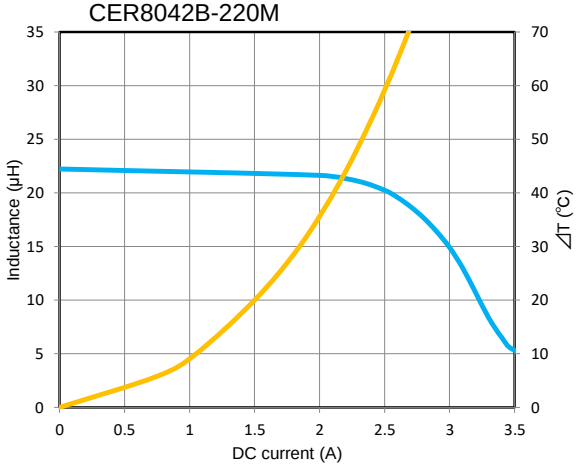

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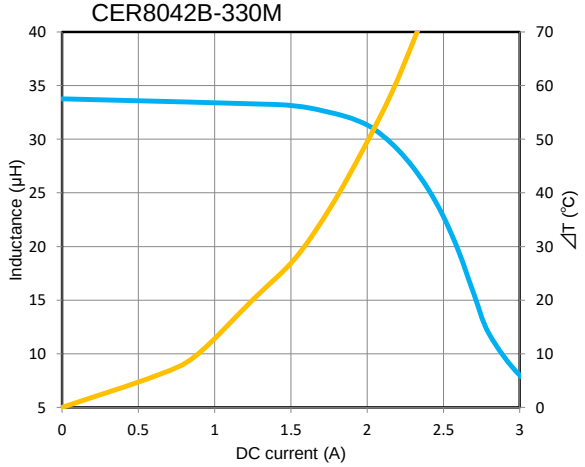

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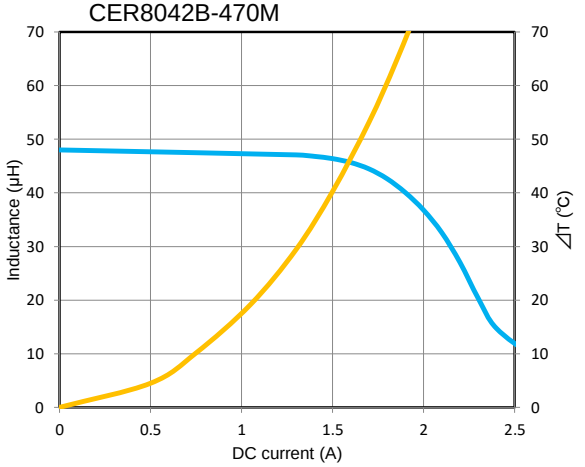

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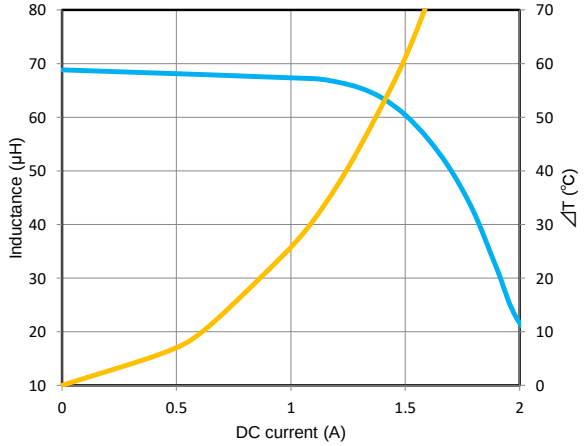

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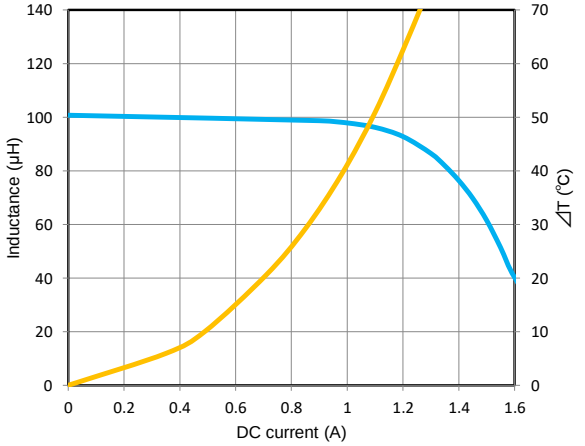
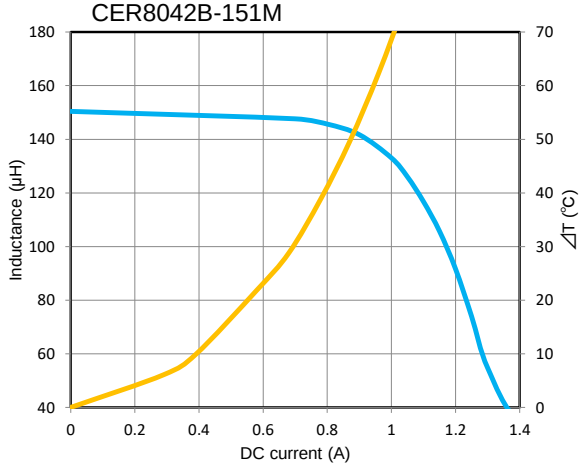


DC bias characteristics vs Temperature Rise Graph

L(25℃) ⊿T

CER8042B-151M



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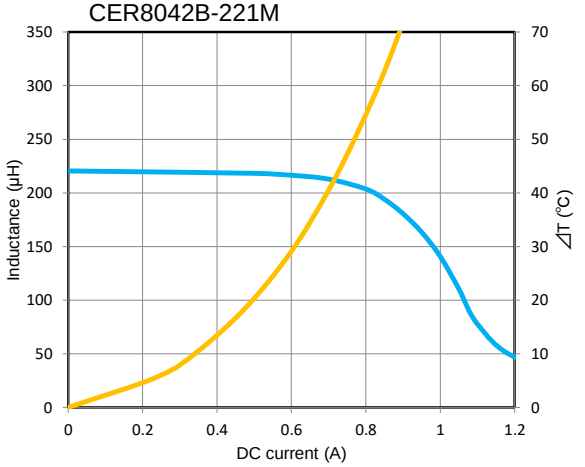

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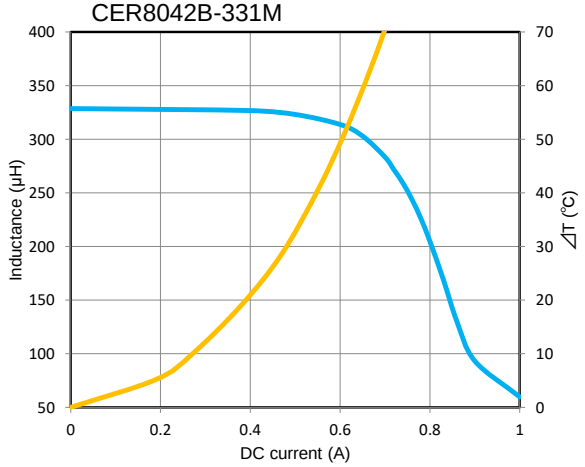

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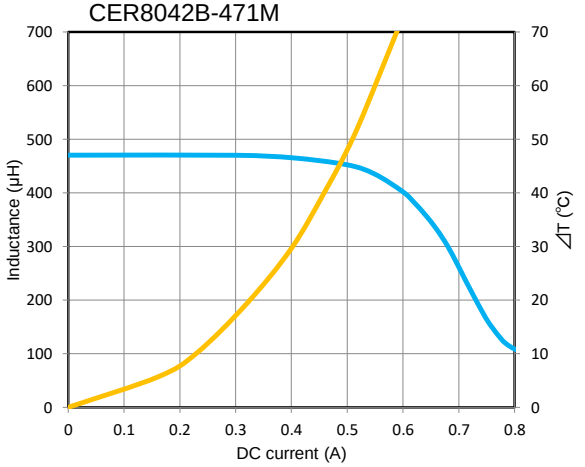

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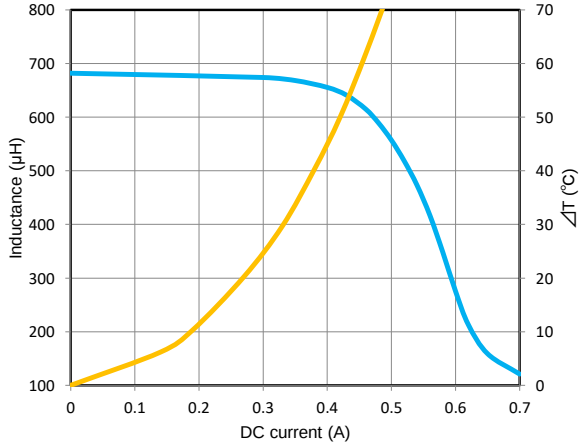

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