CER5017C

AEC-Q200

■ Features

- High reliability available for automotive application.
- SMD magnetic shielded type of power inductor.
- Suitable for power supply choke coil.
- AEC-Q200 compliant
- Operating temperature：-40℃～+150℃(The self-heating is included)

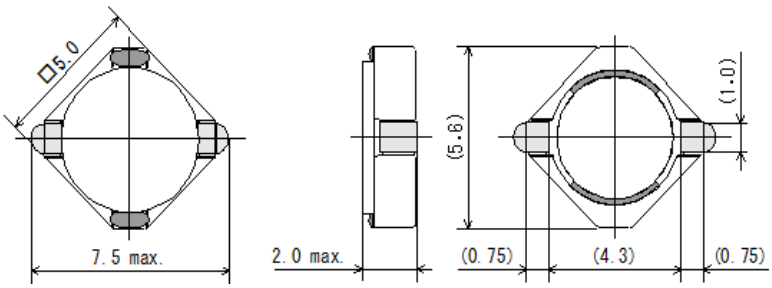
Magnetic structure：

Weight： 0.15 g

■ Applications

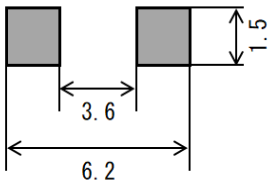
- Automotive/Car Navigation,ECU,LED Headlights,Car Audio
- Others/FA,Medical,Energy,Power Supply

■ Dimensions



(Unit：mm)

■ Recommended Land Pattern



(Unit：mm)

SAGAMI ELEC CO., LTD.
https://www.sagami-elec.co.jp
10-30, Ichibashimo-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0024, Japan
Over Seas Sales Dept. TEL : +81 45 511 3141, E-mail : ossg@sagami-elec.co.jp
Engineering Dept. TEL : +81 45 521 4543

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■ Specifications

SAGAMI Part No.	Inductance (μH)	DCR (Ω) ±30%	DC Saturation Allowable Current (A)		Temperature Rise Allowable Current (A)	
			Typical	Spec	Typical	Spec
CER5017C-1R3N	1.3±30%	0.0300	4.00	3.15	3.52	2.80
CER5017C-1R8N	1.8±30%	0.0340	3.23	2.60	3.14	2.60
CER5017C-2R4N	2.4±30%	0.0400	2.90	2.35	2.80	2.40
CER5017C-3R0N	3±30%	0.0460	2.62	2.05	2.58	2.20
CER5017C-3R9N	3.9±30%	0.0550	2.54	1.85	2.40	2.10
CER5017C-4R7N	4.7±30%	0.0630	2.29	1.65	2.34	1.85
CER5017C-5R6N	5.6±30%	0.0790	2.19	1.55	2.14	1.70
CER5017C-6R8N	6.8±30%	0.0910	1.93	1.40	2.09	1.60
CER5017C-8R2N	8.2±30%	0.110	1.79	1.30	1.90	1.45
CER5017C-100M	10±20%	0.120	1.62	1.15	1.67	1.30
CER5017C-120M	12±20%	0.160	1.44	1.05	1.53	1.20
CER5017C-150M	15±20%	0.200	1.23	0.900	1.32	1.05
CER5017C-180M	18±20%	0.230	1.17	0.850	1.24	0.950
CER5017C-220M	22±20%	0.280	1.05	0.800	1.11	0.850
CER5017C-270M	27±20%	0.380	0.970	0.700	0.960	0.750
CER5017C-330M	33±20%	0.420	0.850	0.650	0.910	0.700
CER5017C-390M	39±20%	0.550	0.790	0.600	0.800	0.640
CER5017C-470M	47±20%	0.610	0.720	0.550	0.760	0.580

Inductance Measuring Condition:100kHz,1V(＜10μH)、1kHz,1V(≧10μH)
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℃

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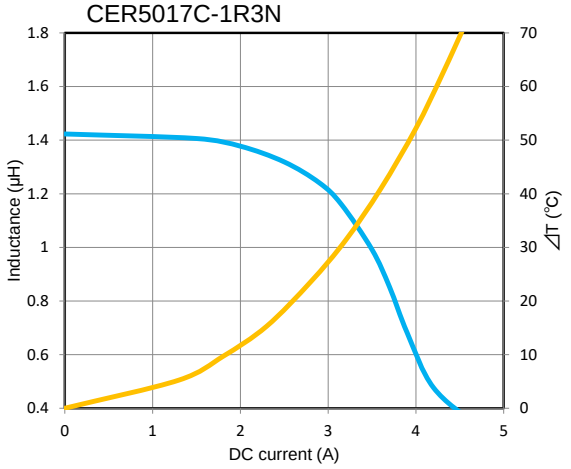
DC bias characteristics vs Temperature Rise Graph

L(25℃)　　⊿T

CER5017C-1R3N



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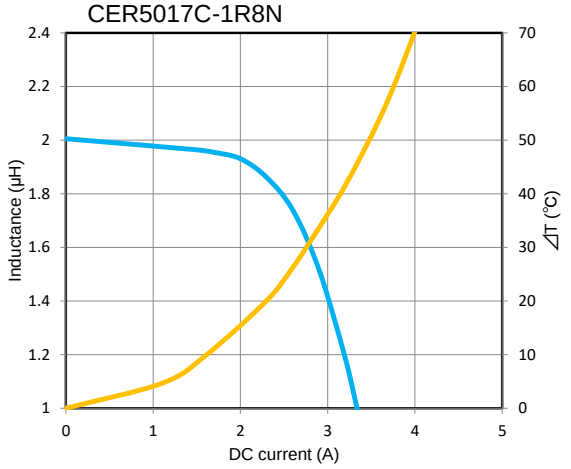

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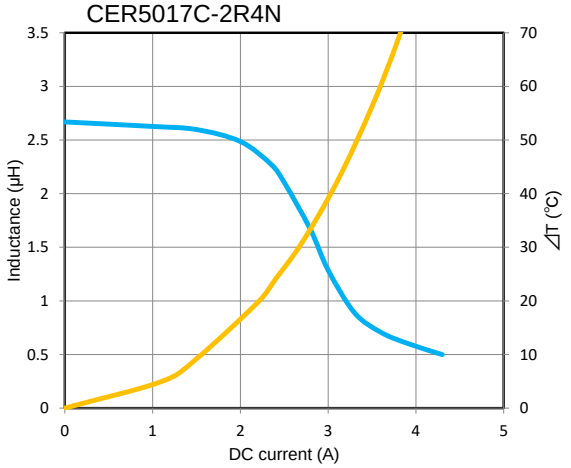

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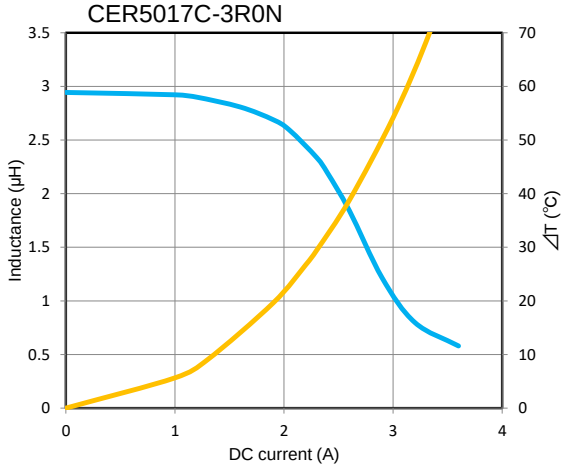

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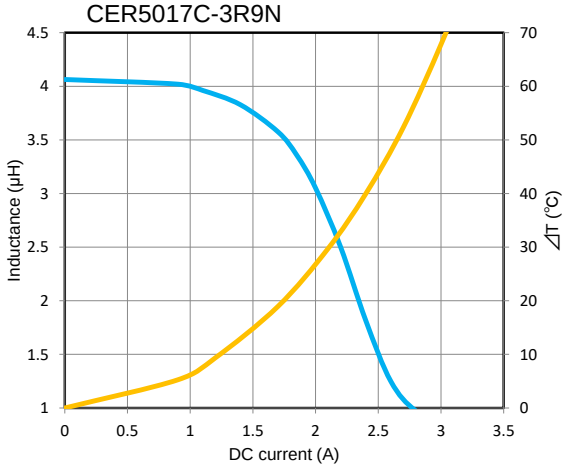

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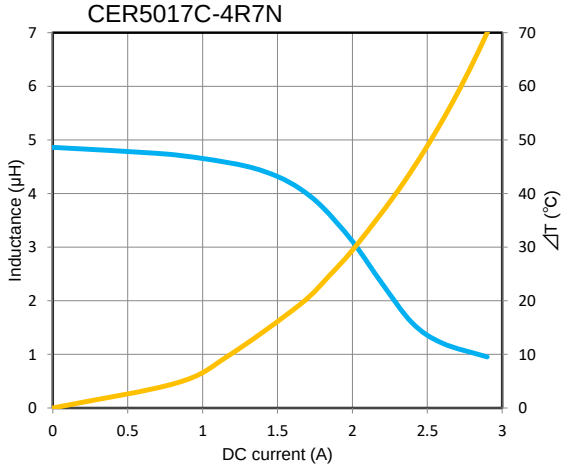

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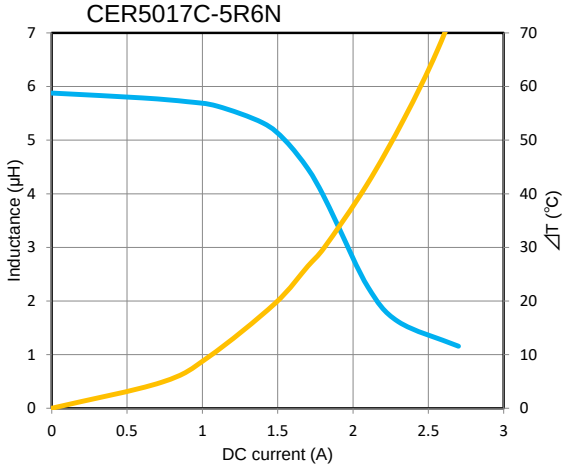
CER5017C-5R6N



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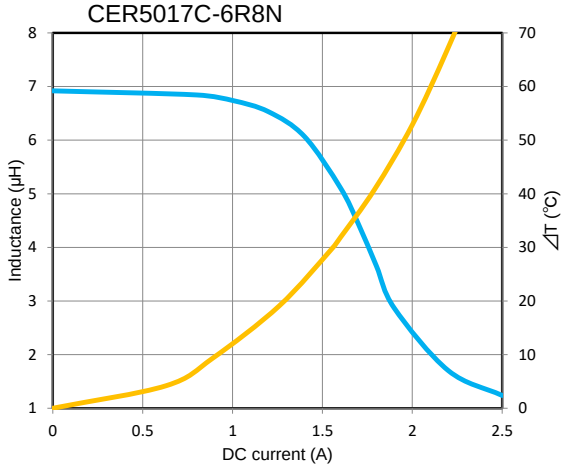

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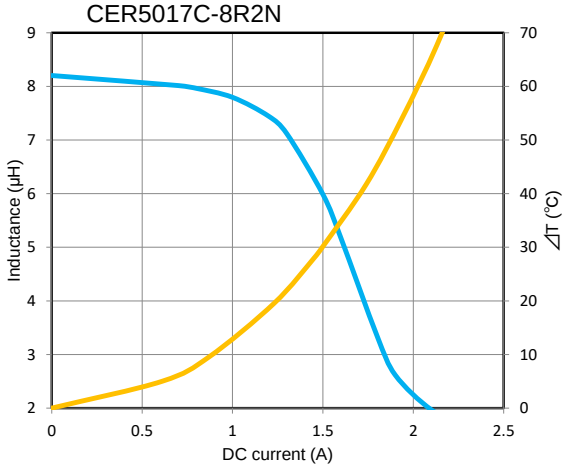

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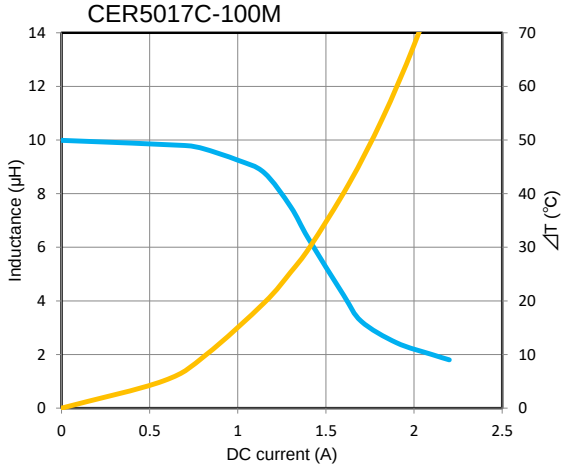

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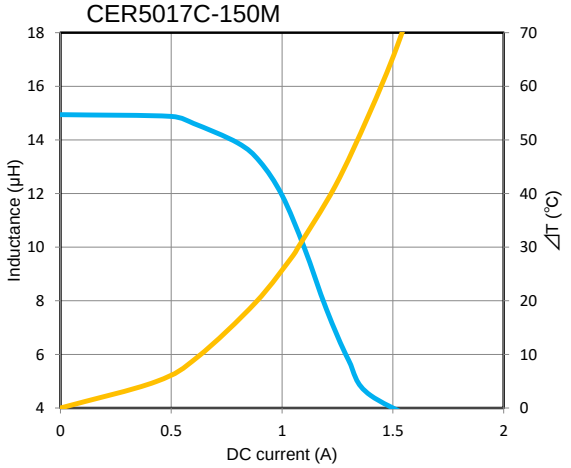

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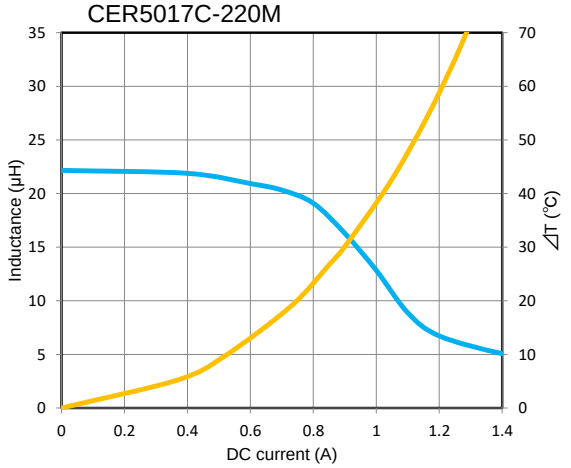

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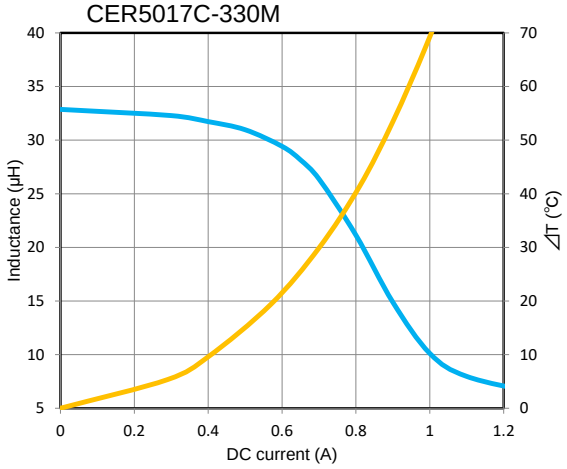
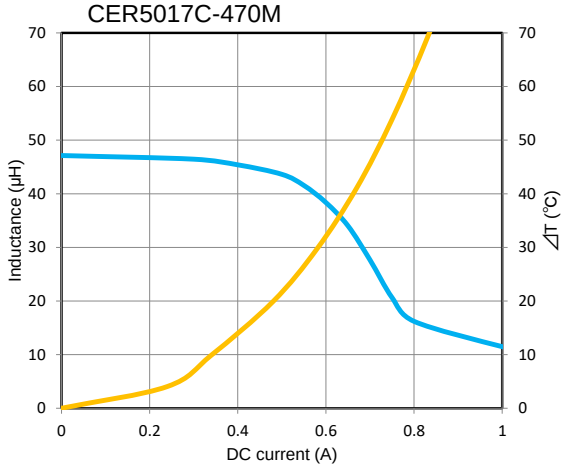
CER5017C-330M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