

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°C~+150°C(The self-heating is included)

Magnetic structure :

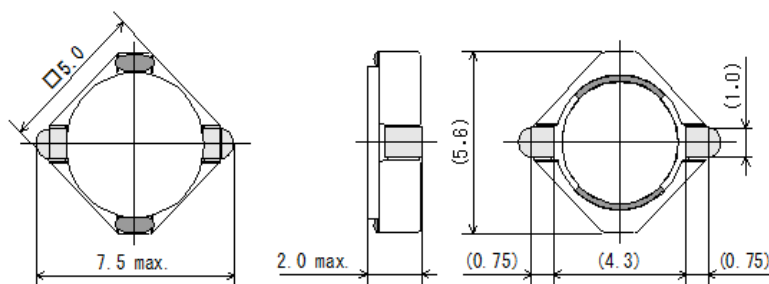


Weight : 0.15 g

■ Applications

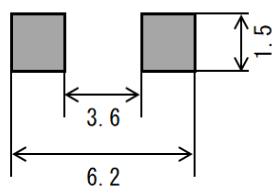
- Automotive/Car Navigation,ECU,LED Headlights,Car Audio
- Others/FA,Medical,Energy,Power Supply

■ Dimensions



(Unit : mm)

■ Recommended Land Pattern



(Unit : mm)



SAGAMI ELEC CO., LTD.
<https://www.sagami-elec.co.jp>

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■ Specifications

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

Inductance Measuring Condition: 100kHz, 1V(<10 μ H), 1kHz, 1V($\geq 10\mu$ H)

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°C



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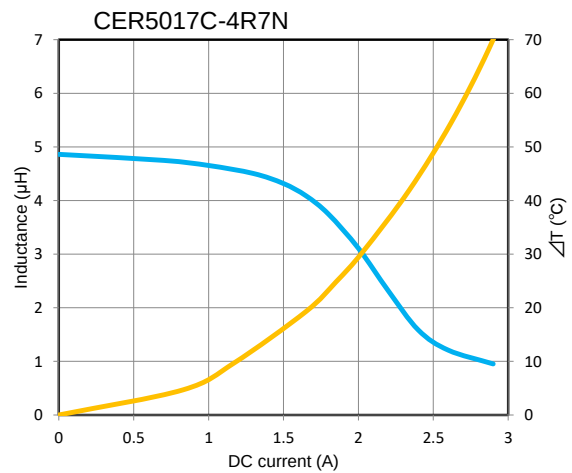
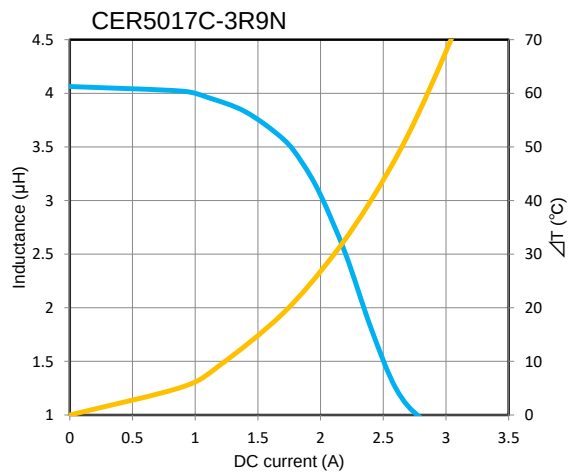
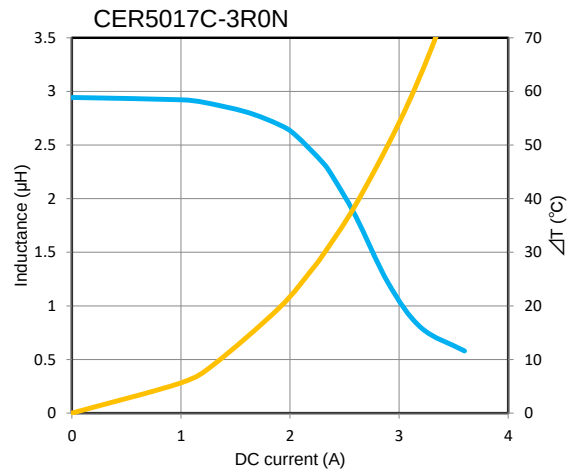
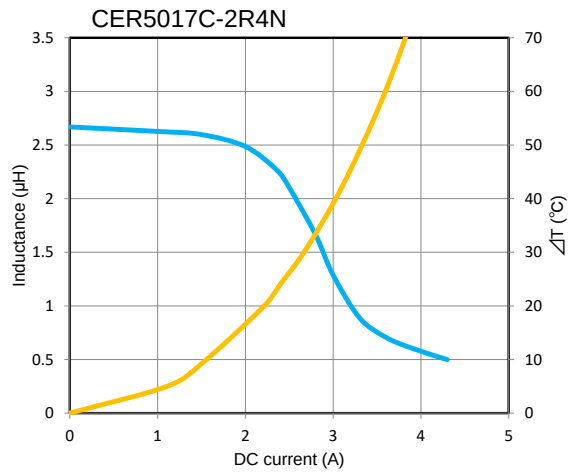
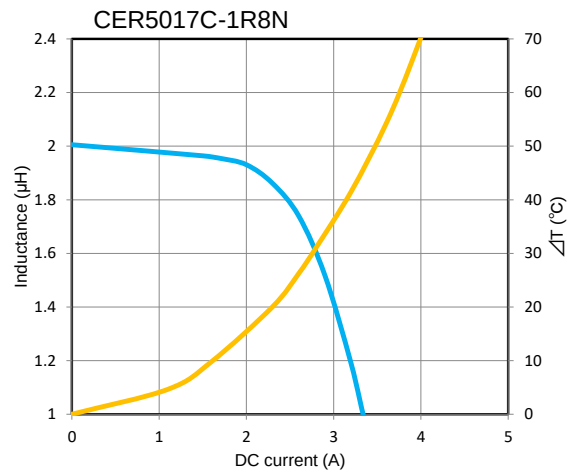
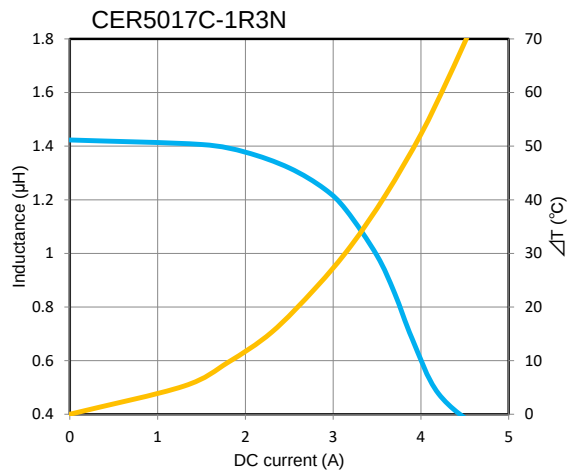
DC bias characteristics vs Temperature Rise Graph



L(25°C)



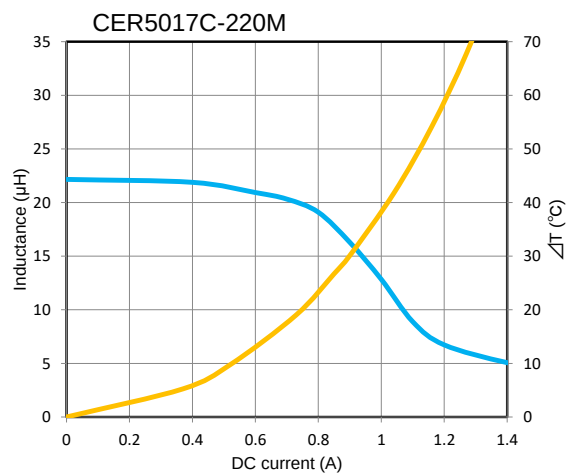
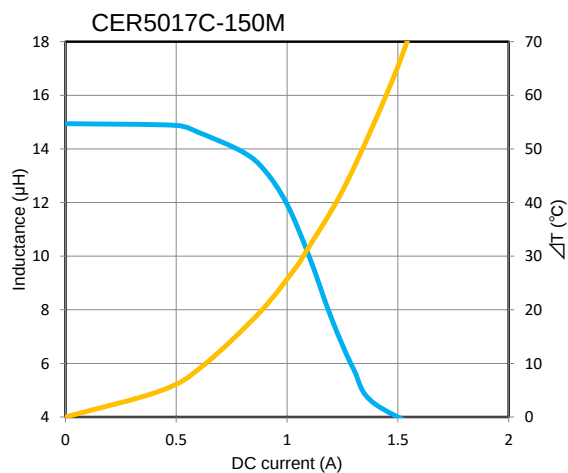
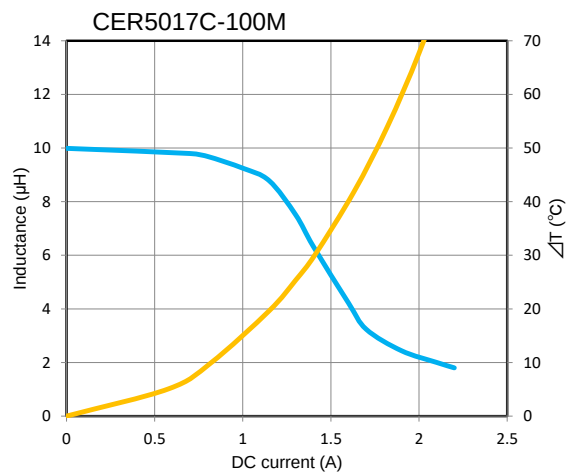
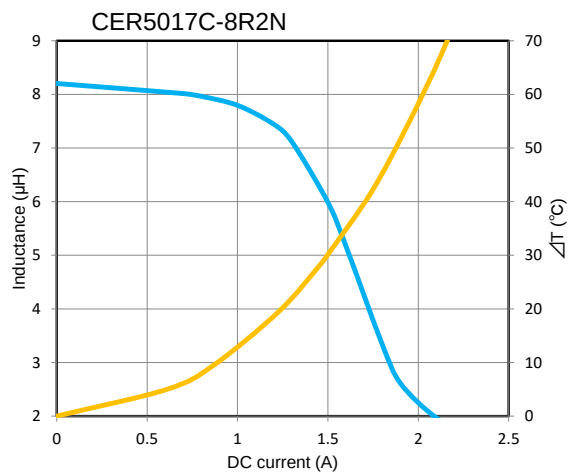
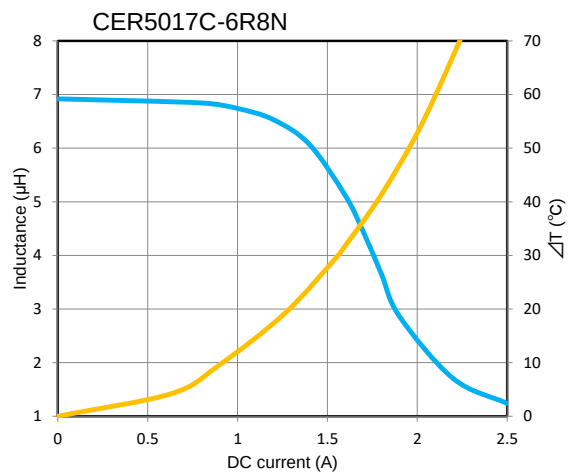
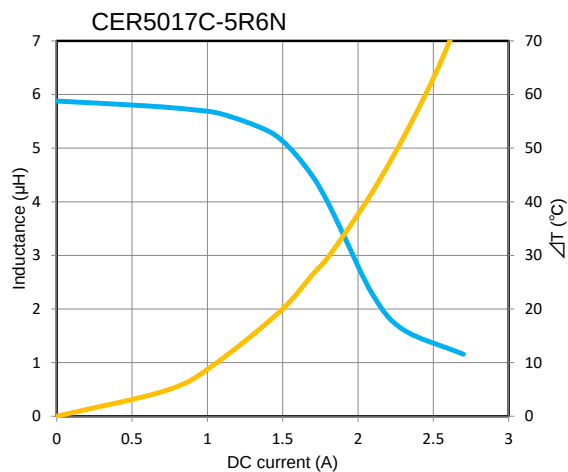
ΔT



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DC bias characteristics vs Temperature Rise Graph

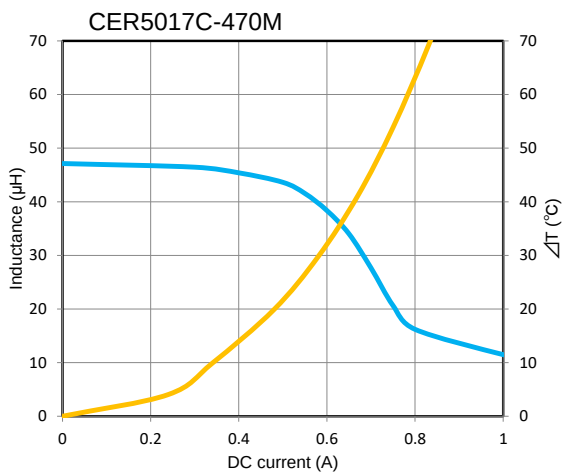
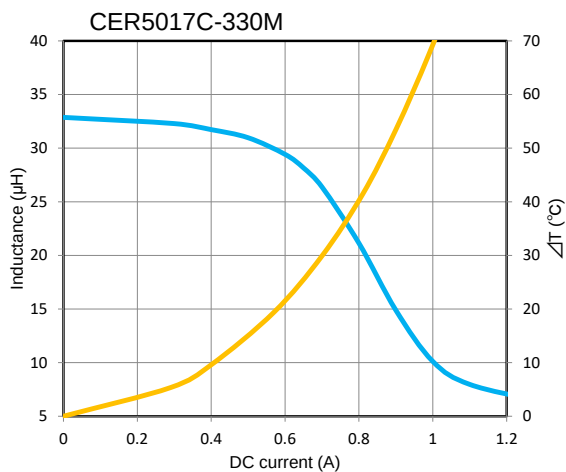
■ L(25°C) ■ ΔT



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DC bias characteristics vs Temperature Rise Graph

— L(25°C) — ΔT



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