

CER6017C

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 :

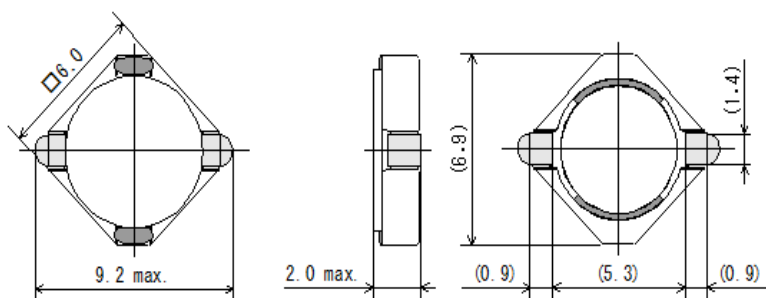


Weight : 0.21 g

■ Applications

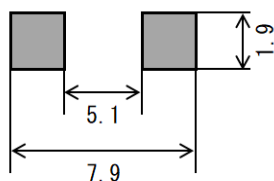
- Automotive/ECU,LED Headlights,Car Audio,Car Navigation
- Others/Medical,Energy,Power Supply,FA

■ Dimensions



(Unit : mm)

■ Recommended Land Pattern



(Unit : mm)



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■ Specifications

SAGAMI Part No.	Inductance (μH)	DCR (Ω) $\pm 30\%$	DC Saturation Allowable Current (A)		Temperature Rise Allowable Current (A)	
			Typical	Spec	Typical	Spec
CER6017C-1R2N	1.2 $\pm 30\%$	0.0140	4.14	3.10	4.84	4.10
CER6017C-1R8N	1.8 $\pm 30\%$	0.0200	3.34	2.40	4.08	3.40
CER6017C-2R4N	2.4 $\pm 30\%$	0.0270	2.91	2.20	3.42	3.00
CER6017C-3R3N	3.3 $\pm 30\%$	0.0370	2.56	2.00	2.93	2.60
CER6017C-4R3N	4.3 $\pm 30\%$	0.0500	2.24	1.70	2.47	2.20
CER6017C-5R6N	5.6 $\pm 30\%$	0.0570	2.06	1.50	2.32	2.00
CER6017C-6R8N	6.8 $\pm 30\%$	0.0770	1.76	1.40	1.98	1.60
CER6017C-8R2N	8.2 $\pm 30\%$	0.0850	1.61	1.30	1.87	1.50
CER6017C-100M	10 $\pm 20\%$	0.120	1.39	1.10	1.55	1.30
CER6017C-120M	12 $\pm 20\%$	0.130	1.36	1.00	1.55	1.20
CER6017C-150M	15 $\pm 20\%$	0.170	1.17	0.900	1.48	1.10
CER6017C-180M	18 $\pm 20\%$	0.190	1.08	0.850	1.29	1.00
CER6017C-220M	22 $\pm 20\%$	0.230	0.970	0.750	1.24	0.900
CER6017C-270M	27 $\pm 20\%$	0.270	0.880	0.650	1.10	0.850
CER6017C-330M	33 $\pm 20\%$	0.380	0.780	0.600	1.03	0.680
CER6017C-390M	39 $\pm 20\%$	0.420	0.730	0.570	0.840	0.650
CER6017C-470M	47 $\pm 20\%$	0.470	0.680	0.530	0.810	0.610
CER6017C-560M	56 $\pm 20\%$	0.690	0.620	0.500	0.760	0.500
CER6017C-680M	68 $\pm 20\%$	0.790	0.570	0.440	0.620	0.460
CER6017C-820M	82 $\pm 20\%$	0.880	0.510	0.400	0.580	0.440

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

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



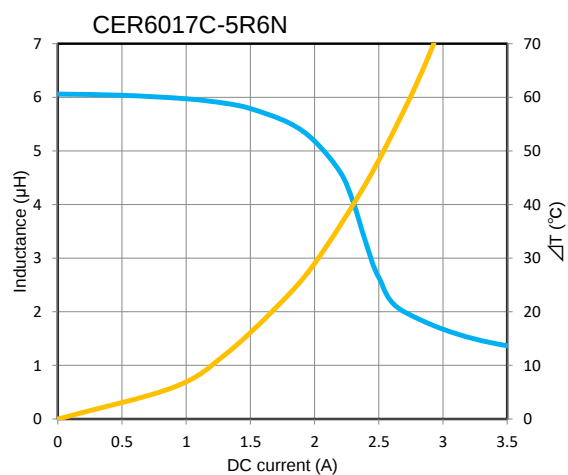
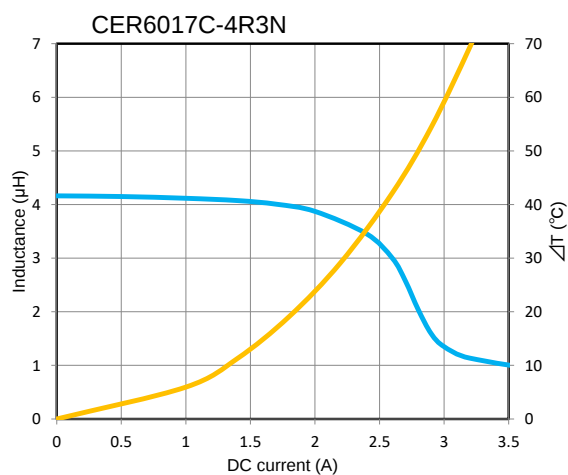
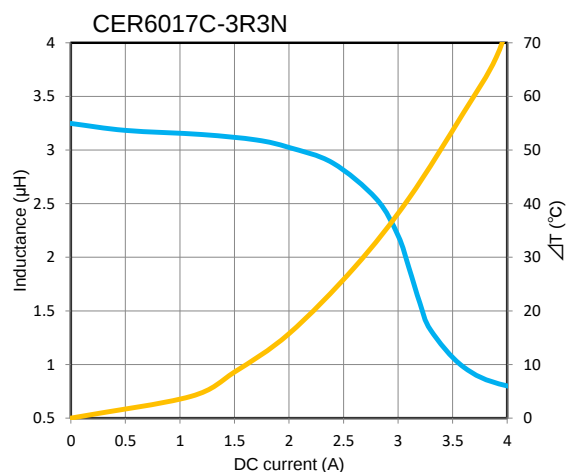
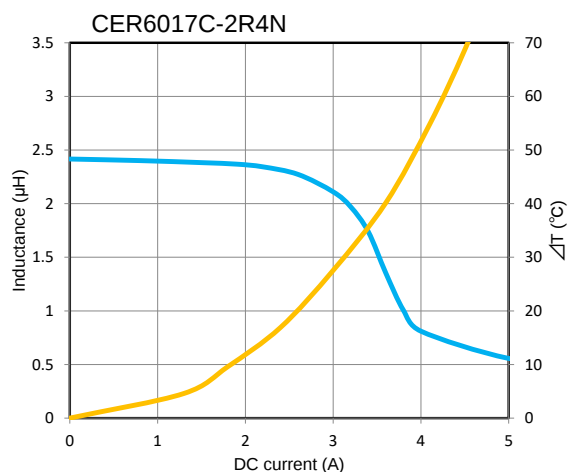
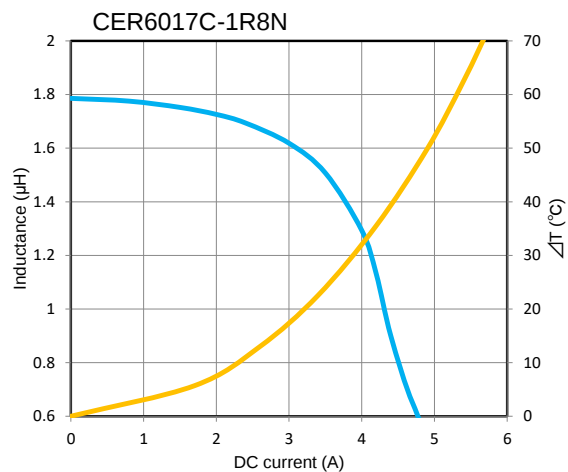
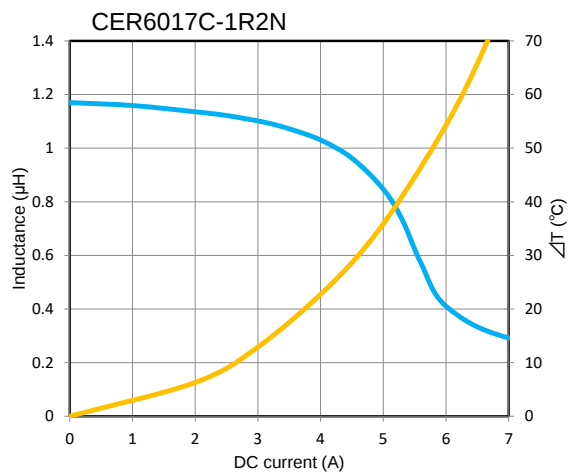
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DC bias characteristics vs Temperature Rise Graph

— L(25°C)
 — ΔT



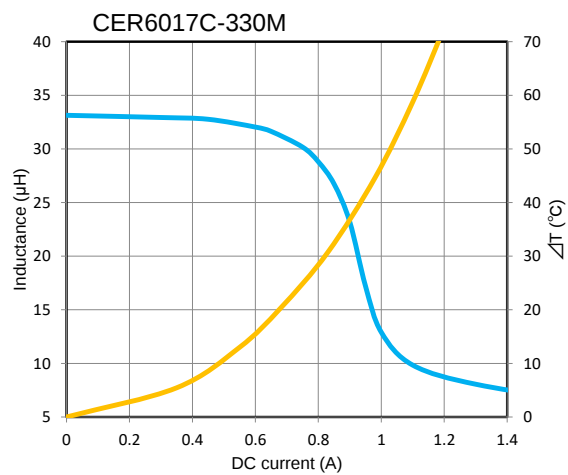
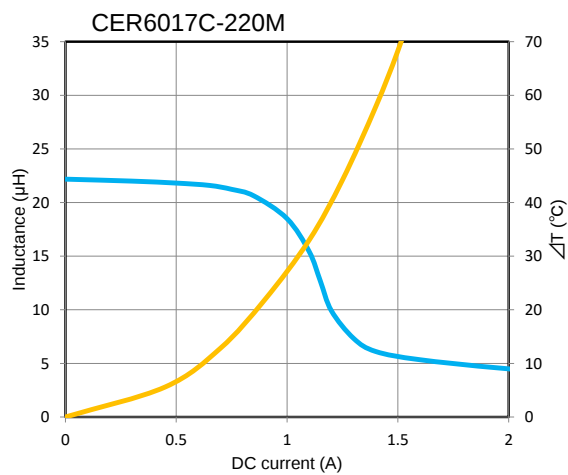
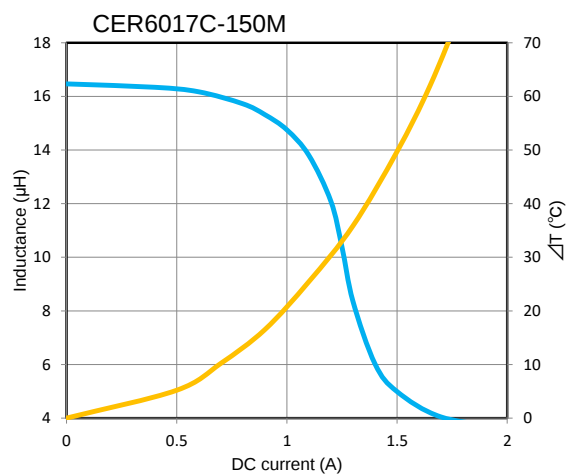
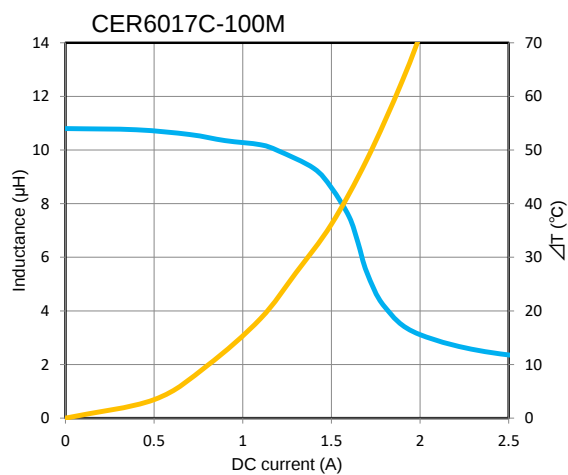
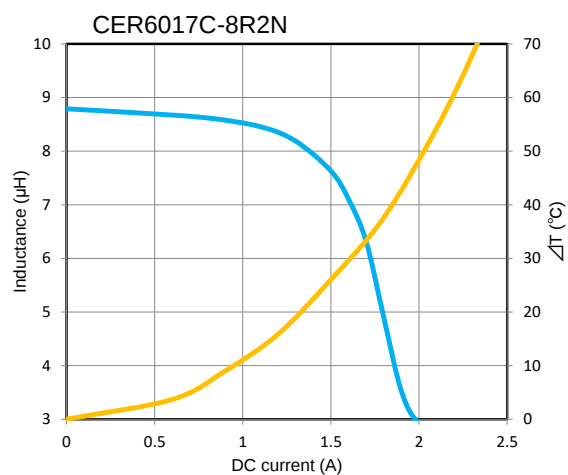
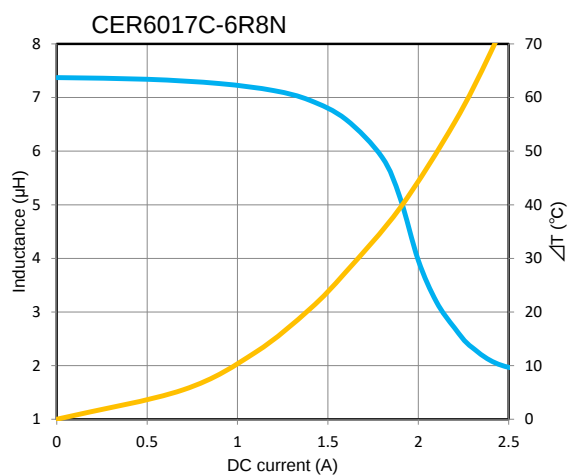
DC bias characteristics vs Temperature Rise Graph



L(25°C)



ΔT



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DC bias characteristics vs Temperature Rise Graph

■ $L(25^{\circ}\text{C})$ ■ ΔT

