

CER5027C

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 :

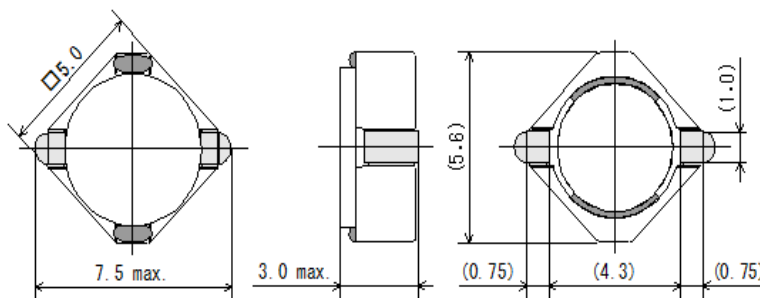


Weight : 0.25 g

■ Applications

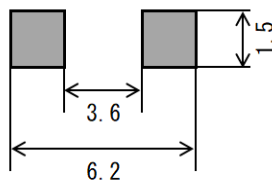
- Automotive/ECU,LED Headlights,Car Audio,Car Navigation
- Others/Medical,Energy,Power Supply,FA

■ Dimensions



(Unit : mm)

■ Recommended Land Pattern



(Unit : mm)



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

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Engineering Dept. TEL : +81 45 521 4543

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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
CER5027C-1R4N	1.4 $\pm 30\%$	0.0180	6.14	3.50	4.68	3.70
CER5027C-2R0N	2 $\pm 30\%$	0.0230	4.75	3.15	4.17	3.30
CER5027C-2R7N	2.7 $\pm 30\%$	0.0270	4.10	2.65	3.92	2.90
CER5027C-3R3N	3.3 $\pm 30\%$	0.0370	3.49	2.30	3.16	2.50
CER5027C-4R3N	4.3 $\pm 30\%$	0.0450	3.18	2.10	2.78	2.20
CER5027C-5R1N	5.1 $\pm 30\%$	0.0550	2.89	1.95	2.72	2.10
CER5027C-6R2N	6.2 $\pm 30\%$	0.0690	2.61	1.75	2.40	1.90
CER5027C-7R5N	7.5 $\pm 30\%$	0.0810	2.35	1.50	2.02	1.65
CER5027C-8R2N	8.2 $\pm 30\%$	0.0870	2.18	1.45	1.96	1.55
CER5027C-100M	10 $\pm 20\%$	0.110	2.02	1.40	1.83	1.45
CER5027C-120M	12 $\pm 20\%$	0.130	1.87	1.25	1.77	1.35
CER5027C-150M	15 $\pm 20\%$	0.170	1.76	1.10	1.45	1.15
CER5027C-180M	18 $\pm 20\%$	0.210	1.53	1.00	1.26	1.05
CER5027C-220M	22 $\pm 20\%$	0.230	1.38	0.850	1.18	0.950
CER5027C-270M	27 $\pm 20\%$	0.280	1.26	0.800	1.14	0.900
CER5027C-330M	33 $\pm 20\%$	0.340	1.17	0.750	1.06	0.800
CER5027C-390M	39 $\pm 20\%$	0.390	1.05	0.700	0.940	0.700
CER5027C-470M	47 $\pm 20\%$	0.440	0.950	0.600	0.920	0.650
CER5027C-560M	56 $\pm 20\%$	0.560	0.880	0.550	0.800	0.600
CER5027C-680M	68 $\pm 20\%$	0.620	0.780	0.500	0.760	0.550
CER5027C-820M	82 $\pm 20\%$	0.810	0.700	0.450	0.630	0.500
CER5027C-101M	100 $\pm 20\%$	0.920	0.660	0.400	0.590	0.450

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



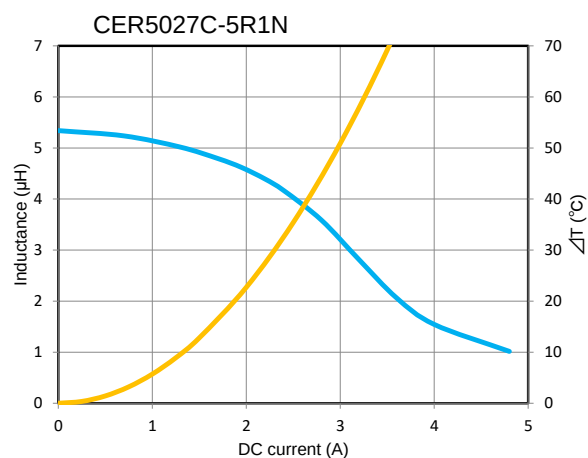
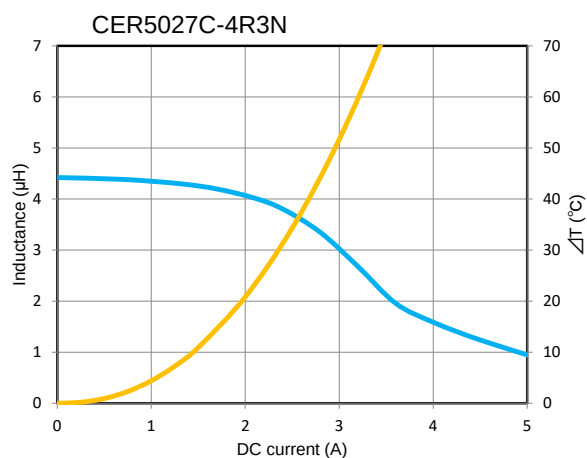
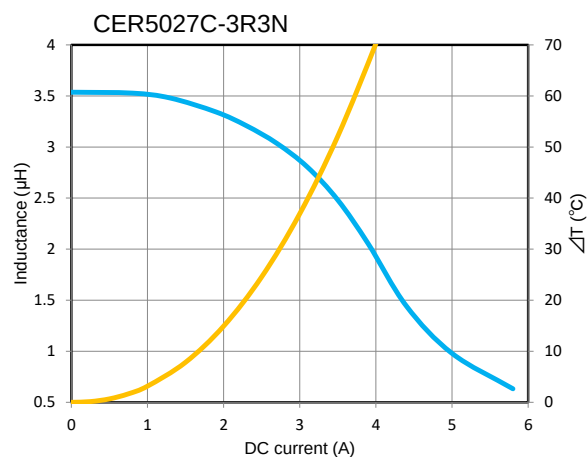
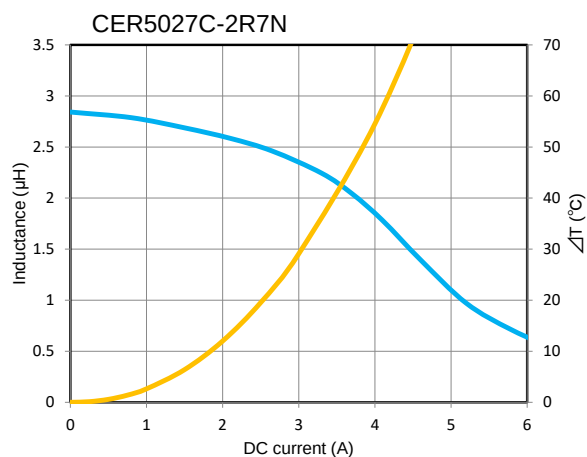
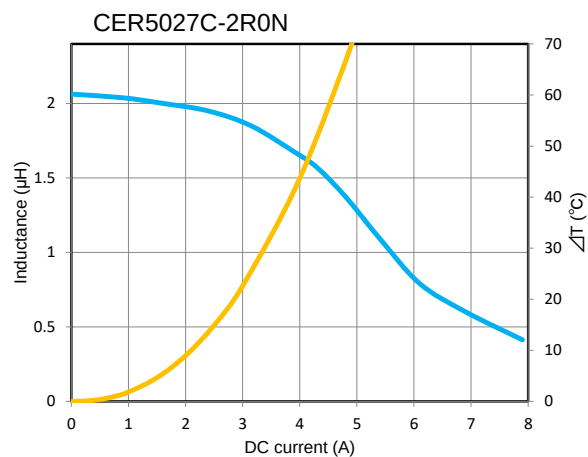
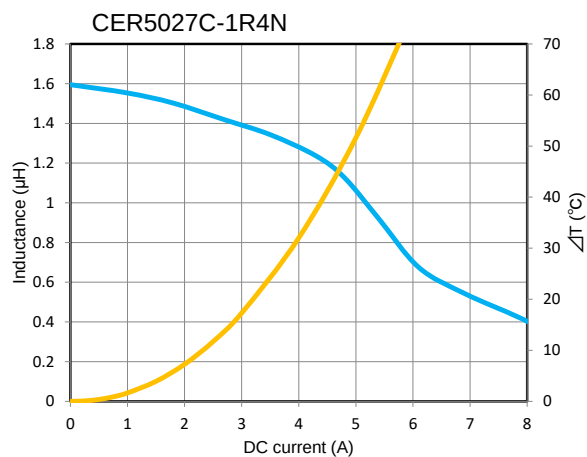
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DC bias characteristics vs Temperature Rise Graph

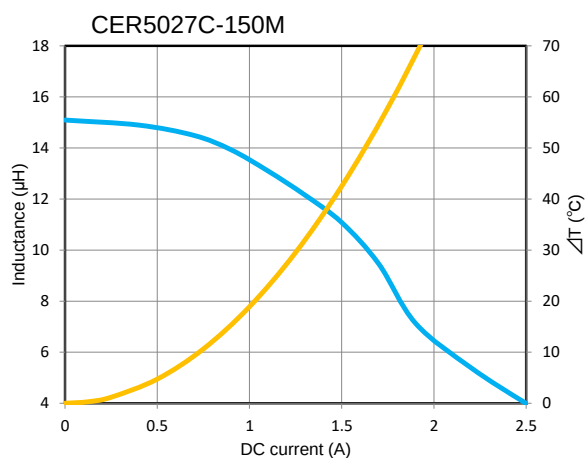
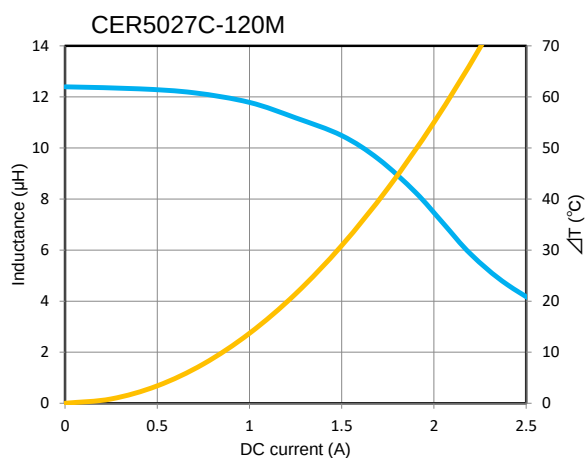
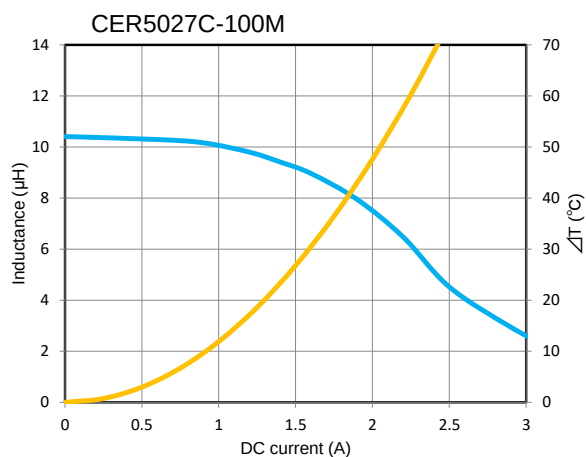
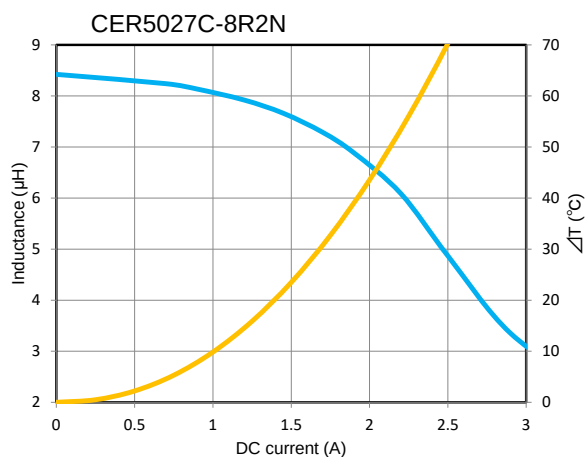
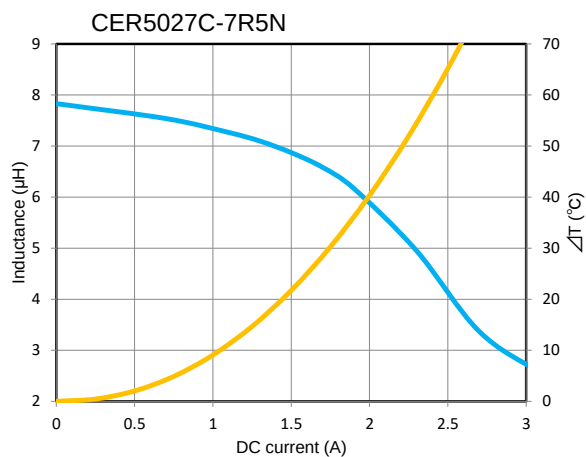
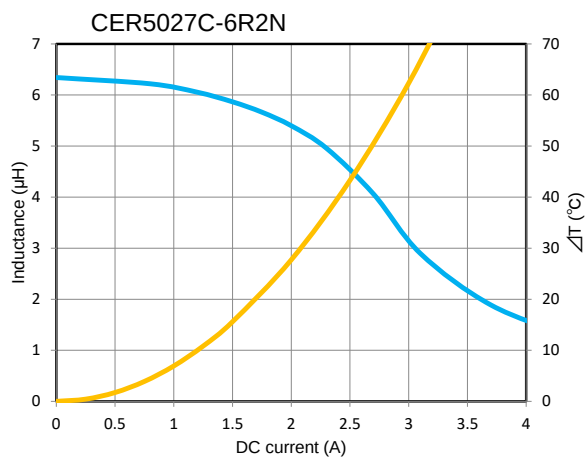
■ $L(25^{\circ}\text{C})$
■ ΔT



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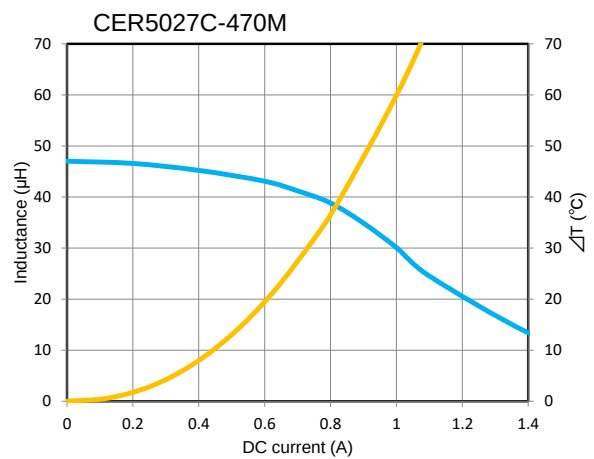
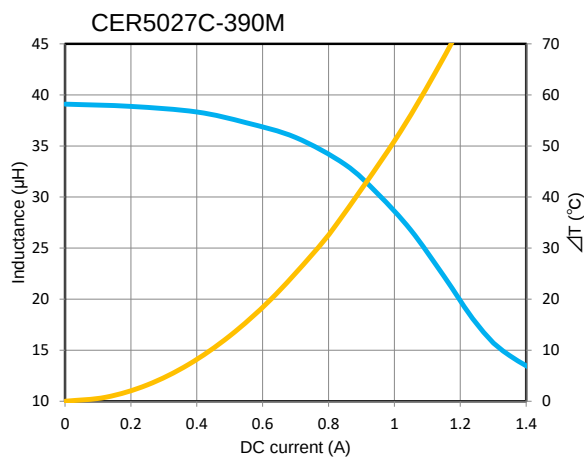
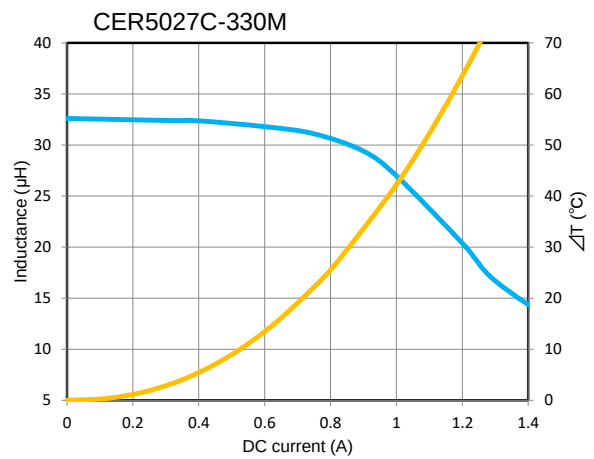
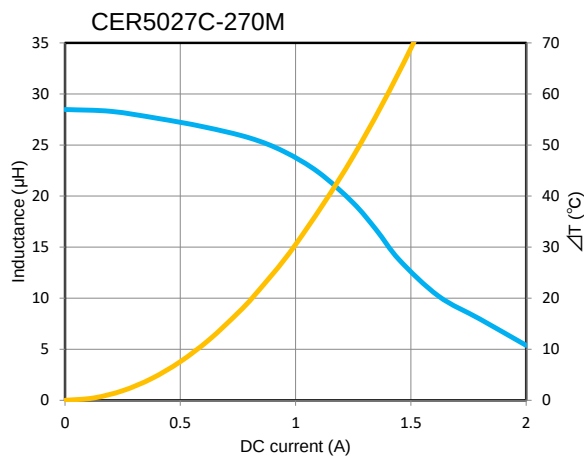
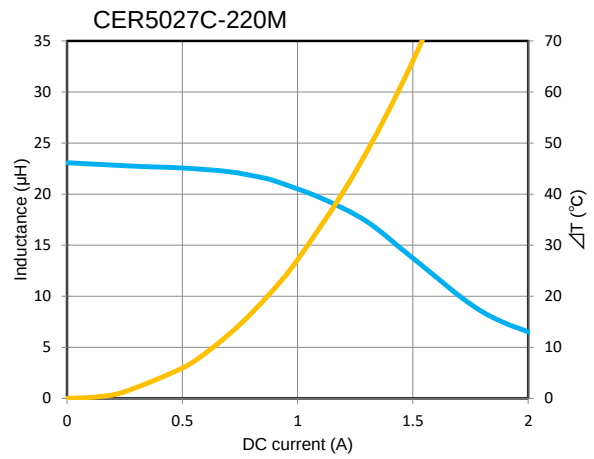
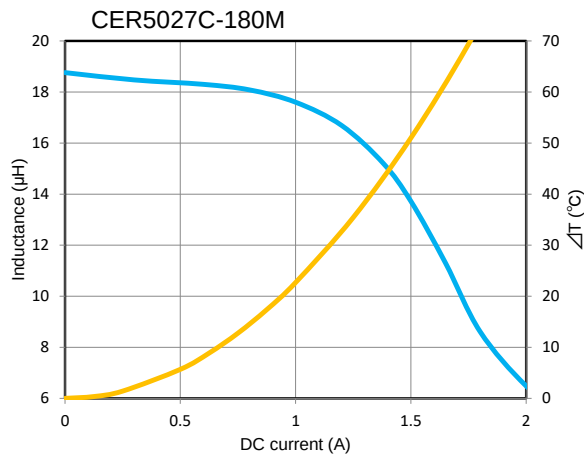
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L(25°C)



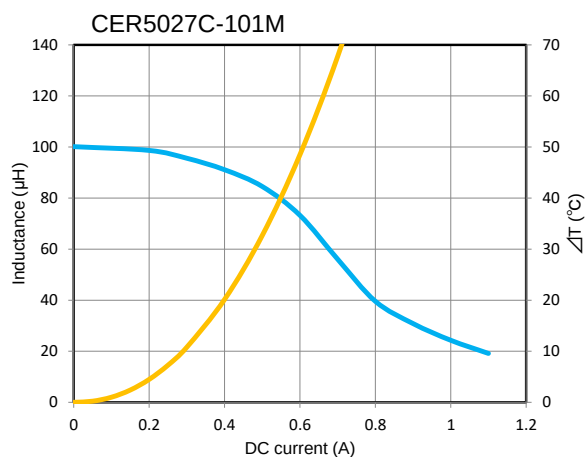
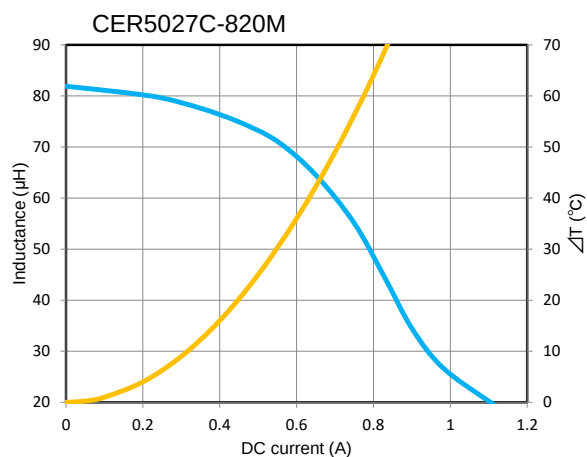
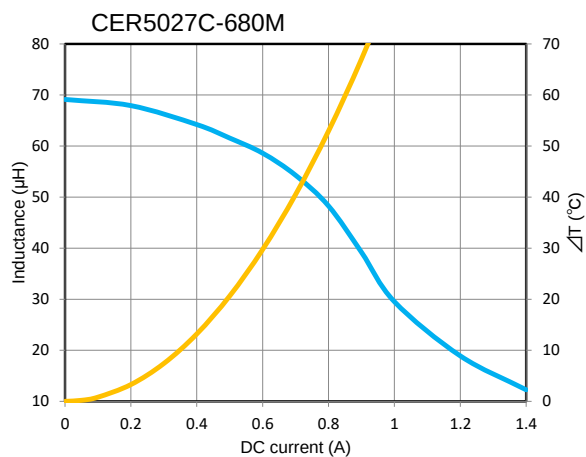
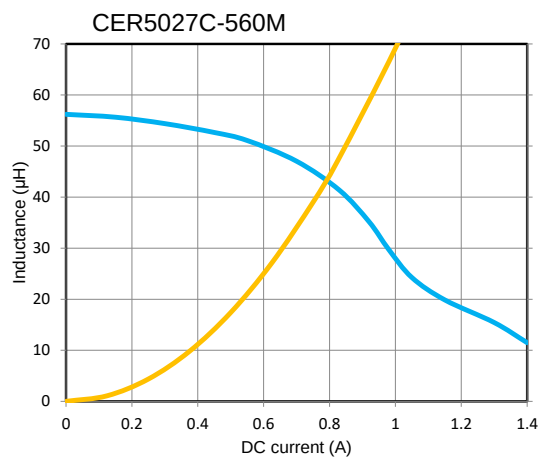
ΔT



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DC bias characteristics vs Temperature Rise Graph

■ $L(25^{\circ}\text{C})$
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