

CER4027C

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 :

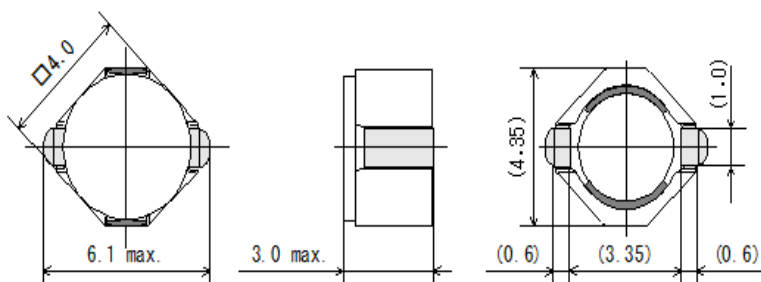


Weight : 0.16 g

■ Applications

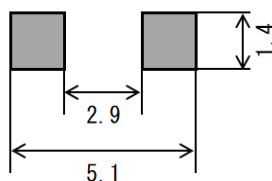
- Automotive/ECU, LED Headlights, Car Audio, Car Navigation
- Others/Medical, Energy, Power Supply, FA

■ Dimensions



(Unit : mm)

■ Recommended Land Pattern



(Unit : mm)



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

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■ Specifications

SAGAMI Part No.	Inductance (μH)	DCR (Ω) $\pm 30\%$	DC Saturation Allowable Current (A)		Temperature Rise Allowable Current (A)	
			Typical	Spec	Typical	Spec
CER4027C-1R5N	1.5 $\pm 30\%$	0.0220	3.40	2.30	3.60	2.60
CER4027C-1R8N	1.8 $\pm 30\%$	0.0250	3.20	2.10	3.50	2.50
CER4027C-2R2N	2.2 $\pm 30\%$	0.0290	3.00	1.90	3.00	2.40
CER4027C-3R6N	3.6 $\pm 30\%$	0.0360	2.50	1.60	2.80	2.10
CER4027C-4R3N	4.3 $\pm 30\%$	0.0440	2.30	1.40	2.50	2.00
CER4027C-5R1N	5.1 $\pm 30\%$	0.0480	2.00	1.20	2.30	1.90
CER4027C-6R8N	6.8 $\pm 30\%$	0.0580	1.60	1.10	2.00	1.70
CER4027C-8R2N	8.2 $\pm 30\%$	0.0720	1.50	1.05	1.80	1.50
CER4027C-100M	10 $\pm 20\%$	0.120	1.30	1.00	1.60	1.20
CER4027C-120M	12 $\pm 20\%$	0.150	1.20	0.900	1.50	1.05
CER4027C-150M	15 $\pm 20\%$	0.170	1.15	0.800	1.30	0.980
CER4027C-180M	18 $\pm 20\%$	0.180	1.09	0.700	1.10	0.930
CER4027C-220M	22 $\pm 20\%$	0.200	0.950	0.650	1.00	0.850
CER4027C-270M	27 $\pm 20\%$	0.240	0.780	0.560	0.980	0.800
CER4027C-330M	33 $\pm 20\%$	0.300	0.700	0.530	0.850	0.700
CER4027C-390M	39 $\pm 20\%$	0.370	0.680	0.490	0.760	0.650
CER4027C-470M	47 $\pm 20\%$	0.420	0.600	0.450	0.710	0.600
CER4027C-560M	56 $\pm 20\%$	0.530	0.540	0.400	0.620	0.550
CER4027C-680M	68 $\pm 20\%$	0.590	0.500	0.360	0.590	0.500
CER4027C-820M	82 $\pm 20\%$	0.770	0.450	0.330	0.510	0.450
CER4027C-101M	100 $\pm 20\%$	0.860	0.410	0.270	0.480	0.400

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



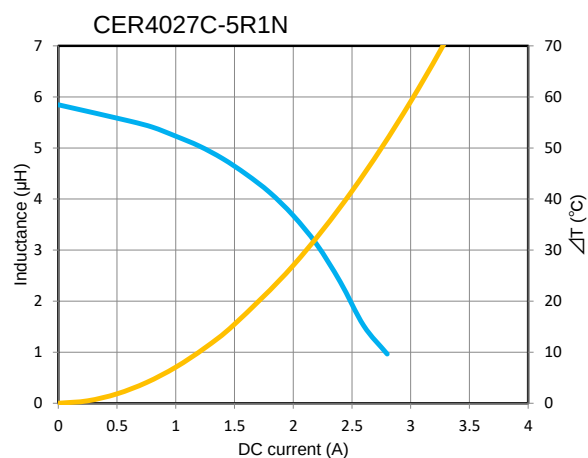
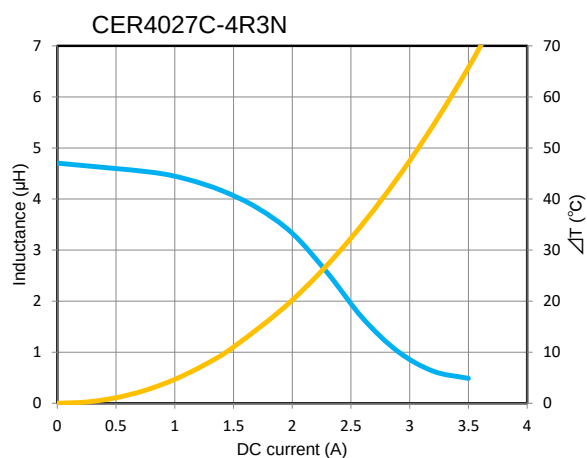
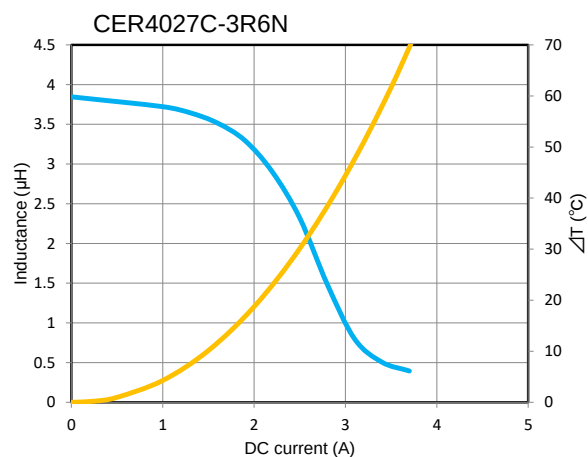
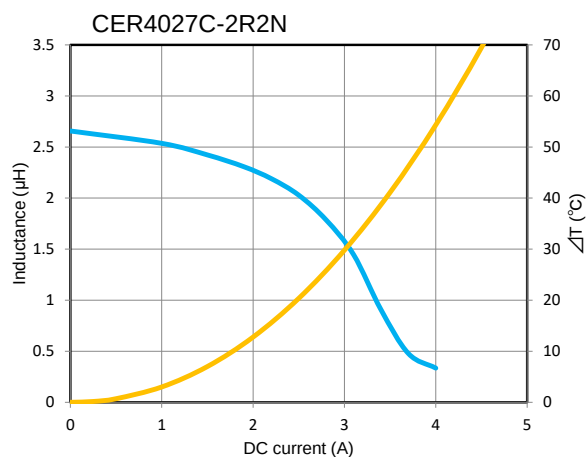
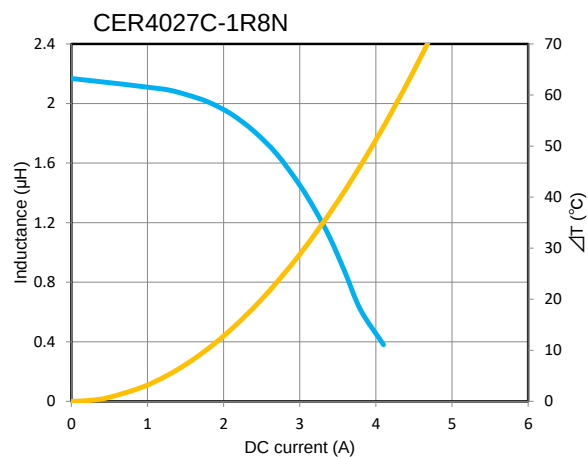
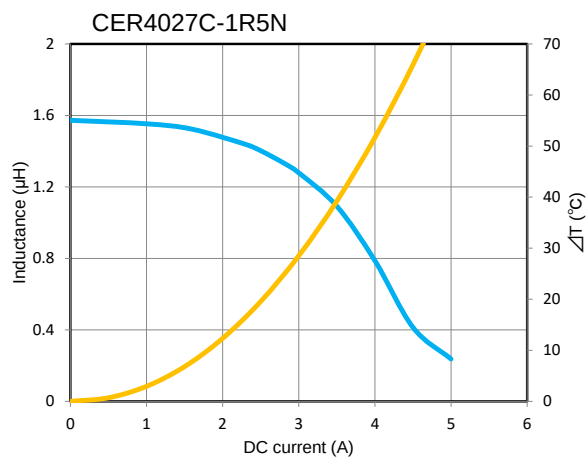
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DC bias characteristics vs Temperature Rise Graph

■ L(25°C) ■ ΔT



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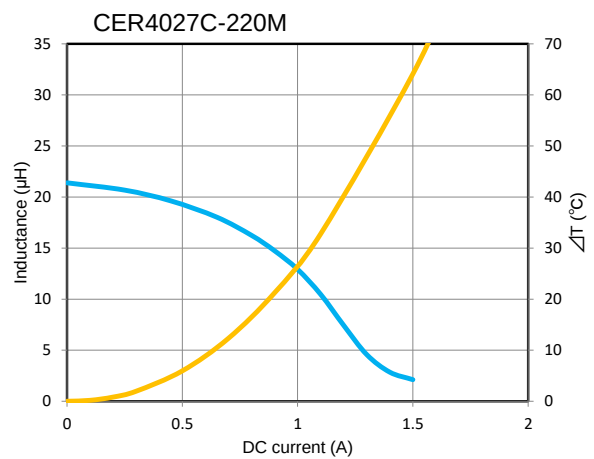
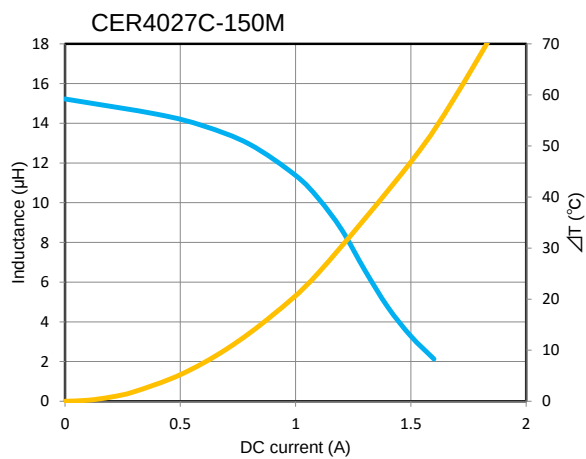
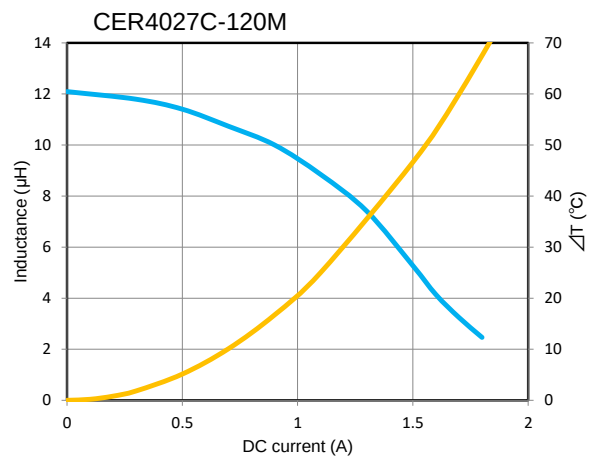
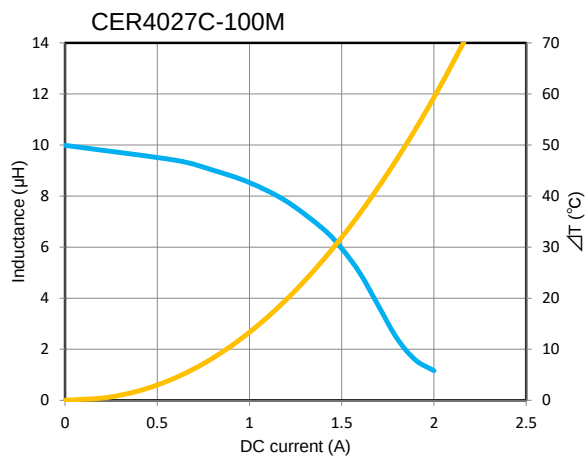
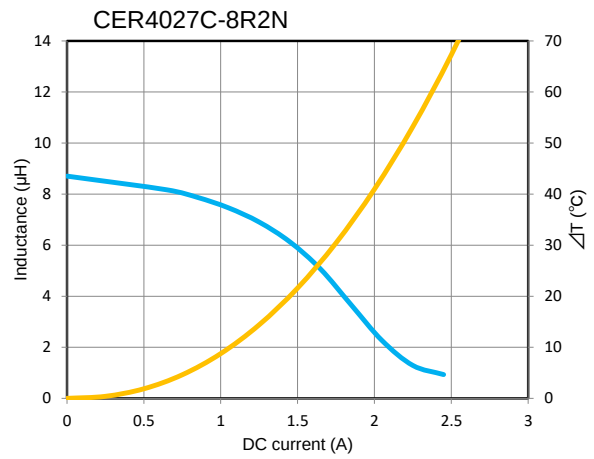
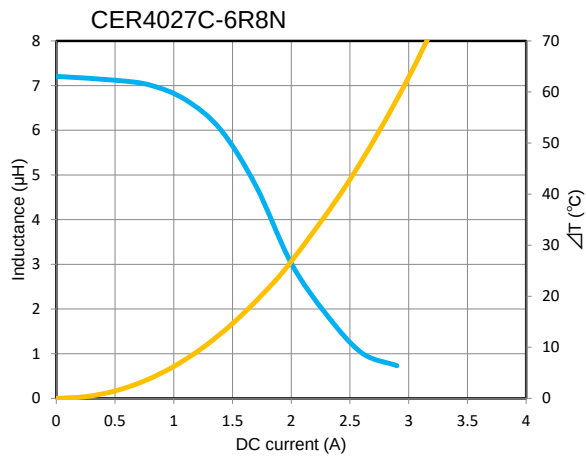
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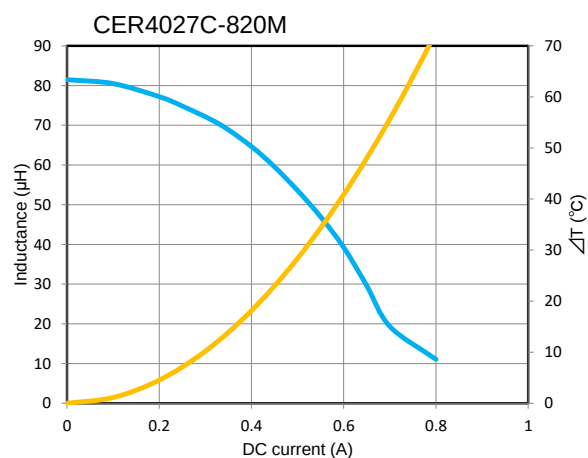
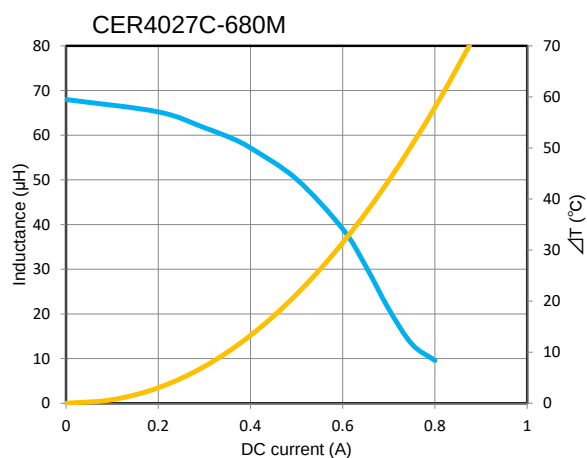
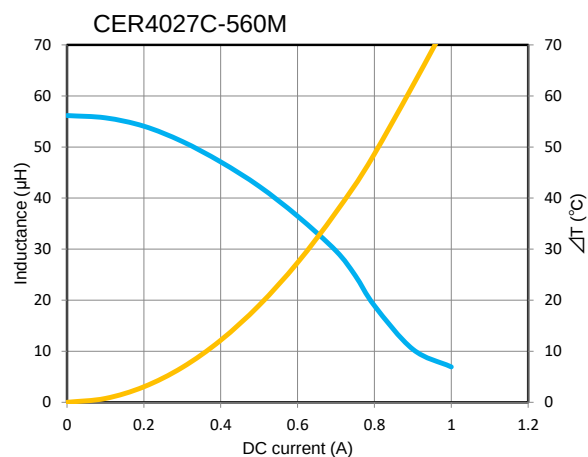
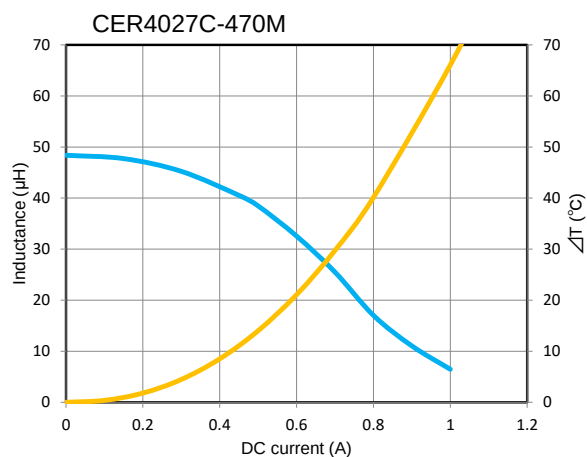
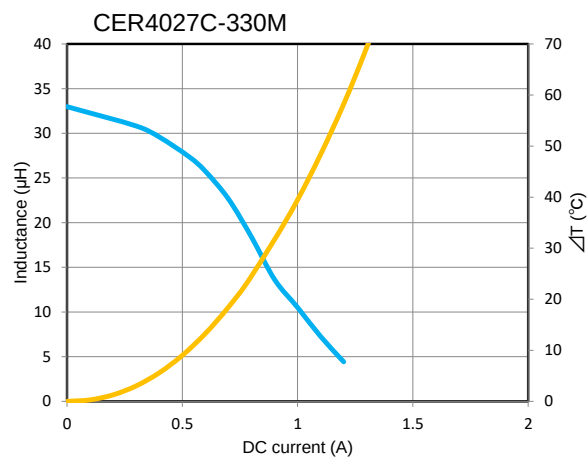
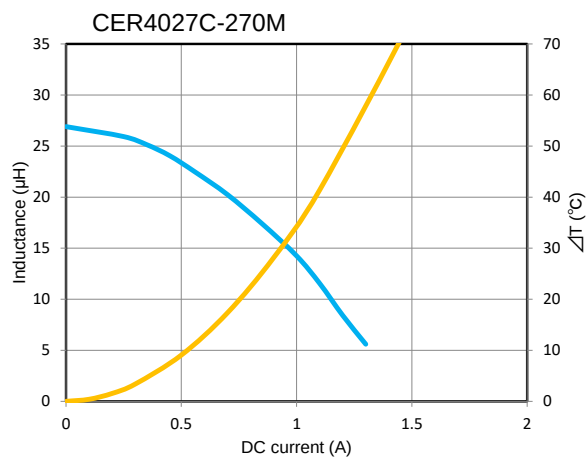
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