

CER7027C

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 :

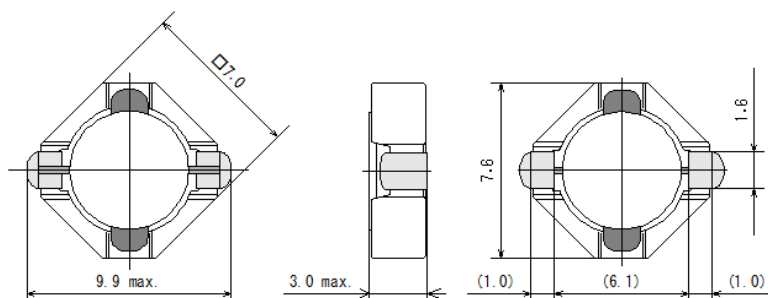


Weight : 0.434 g

■ Applications

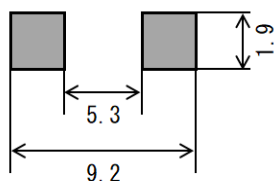
- Automotive/ECU,LED Headlights,Car Audio,Car Navigation
- Others/Medical,Energy,Power Supply,FA

■ Dimensions



(Unit : mm)

■ Recommended Land Pattern



(Unit : mm)



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■ Specifications

SAGAMI Part No.	Inductance (μ H)	DCR (Ω) $\pm 30\%$	DC Saturation Allowable Current (A)		Temperature Rise Allowable Current (A)	
			Typical	Spec	Typical	Spec
CER7027C-1R1N	1.1 $\pm 30\%$	0.0080	7.30	5.30	6.55	4.60
CER7027C-1R5N	1.5 $\pm 30\%$	0.0110	6.35	4.50	5.50	4.00
CER7027C-2R2N	2.2 $\pm 30\%$	0.0140	5.35	3.80	4.95	3.50
CER7027C-2R7N	2.7 $\pm 30\%$	0.0170	4.75	3.40	4.60	3.30
CER7027C-3R3N	3.3 $\pm 30\%$	0.0220	4.55	3.05	3.90	2.80
CER7027C-3R9N	3.9 $\pm 30\%$	0.0270	3.95	2.80	3.55	2.60
CER7027C-4R7N	4.7 $\pm 30\%$	0.0300	3.60	2.55	3.30	2.45
CER7027C-5R6N	5.6 $\pm 30\%$	0.0370	3.25	2.35	3.00	2.25
CER7027C-6R2N	6.2 $\pm 30\%$	0.0400	3.10	2.20	2.80	2.05
CER7027C-7R5N	7.5 $\pm 30\%$	0.0450	2.80	2.00	2.65	1.90
CER7027C-9R1N	9.1 $\pm 30\%$	0.0490	2.60	1.85	2.50	1.80
CER7027C-100M	10 $\pm 20\%$	0.0600	2.45	1.70	2.25	1.70
CER7027C-120M	12 $\pm 20\%$	0.0740	2.20	1.60	2.00	1.50
CER7027C-150M	15 $\pm 20\%$	0.0900	2.00	1.40	1.85	1.35
CER7027C-180M	18 $\pm 20\%$	0.110	1.80	1.25	1.65	1.20
CER7027C-220M	22 $\pm 20\%$	0.130	1.70	1.15	1.50	1.10
CER7027C-270M	27 $\pm 20\%$	0.160	1.50	1.05	1.35	1.00
CER7027C-330M	33 $\pm 20\%$	0.200	1.35	0.950	1.20	0.900
CER7027C-390M	39 $\pm 20\%$	0.230	1.25	0.850	1.10	0.850
CER7027C-470M	47 $\pm 20\%$	0.270	1.10	0.800	1.00	0.750
CER7027C-560M	56 $\pm 20\%$	0.340	1.00	0.700	0.910	0.650
CER7027C-680M	68 $\pm 20\%$	0.390	0.910	0.650	0.850	0.630
CER7027C-820M	82 $\pm 20\%$	0.470	0.840	0.600	0.760	0.580
CER7027C-101M	100 $\pm 20\%$	0.590	0.770	0.550	0.660	0.500
CER7027C-121M	120 $\pm 20\%$	0.730	0.690	0.480	0.600	0.450
CER7027C-151M	150 $\pm 20\%$	0.850	0.630	0.440	0.570	0.400
CER7027C-181M	180 $\pm 20\%$	1.08	0.570	0.400	0.490	0.350
CER7027C-221M	220 $\pm 20\%$	1.23	0.510	0.370	0.460	0.330
CER7027C-271M	270 $\pm 20\%$	1.54	0.460	0.330	0.410	0.290
CER7027C-331M	330 $\pm 20\%$	1.78	0.410	0.300	0.370	0.270
CER7027C-391M	390 $\pm 20\%$	2.30	0.380	0.270	0.330	0.250
CER7027C-471M	470 $\pm 20\%$	2.60	0.350	0.250	0.310	0.220
CER7027C-561M	560 $\pm 20\%$	3.35	0.320	0.230	0.270	0.200
CER7027C-681M	680 $\pm 20\%$	3.82	0.280	0.200	0.250	0.180
CER7027C-821M	820 $\pm 20\%$	5.06	0.260	0.180	0.220	0.170
CER7027C-102M	1000 $\pm 20\%$	5.79	0.240	0.160	0.200	0.150

Inductance Measuring Condition:100kHz,1V

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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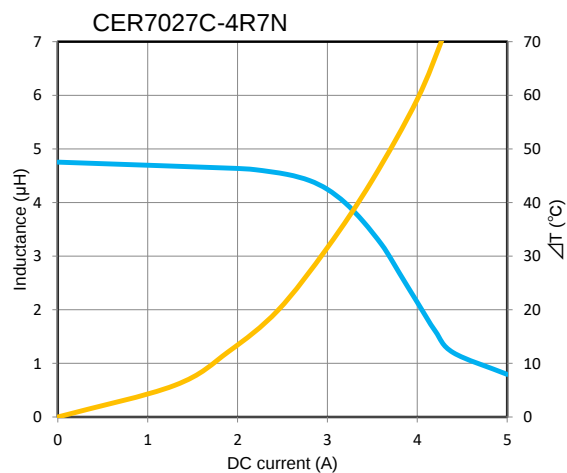
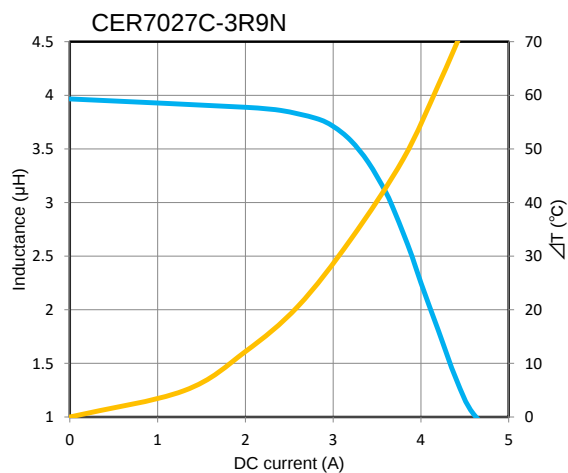
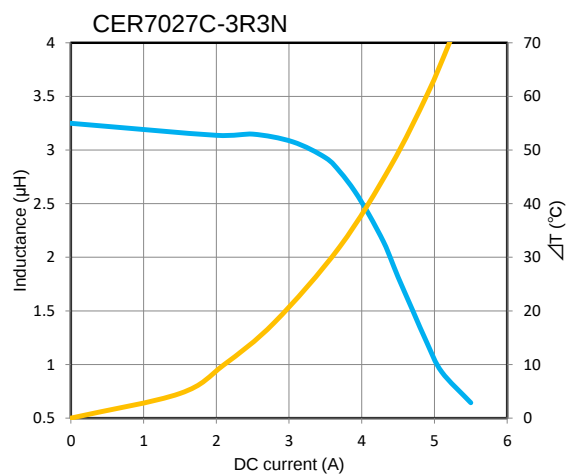
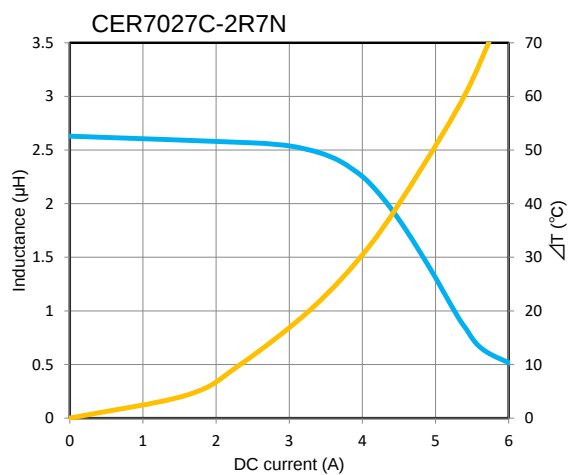
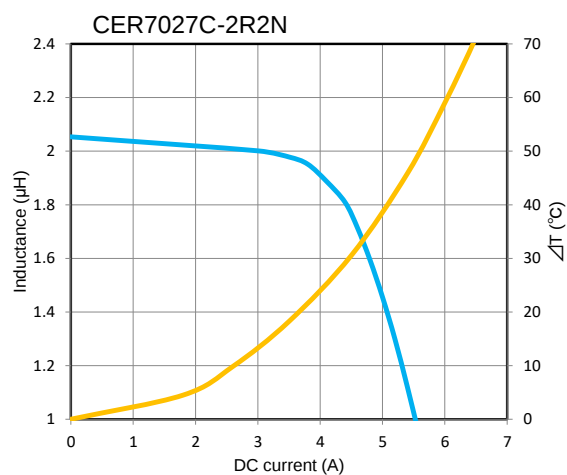
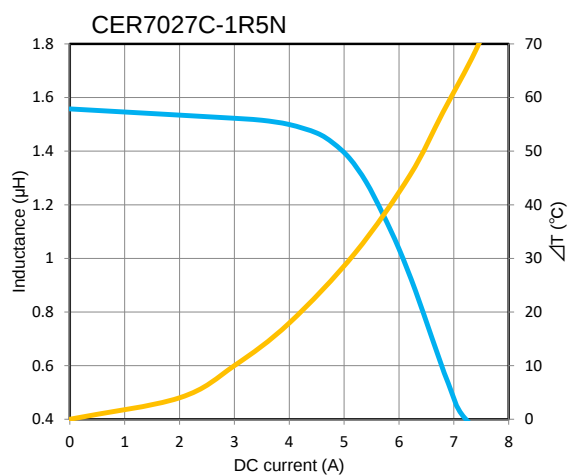
DC bias characteristics vs Temperature Rise Graph



L(25°C)



ΔT



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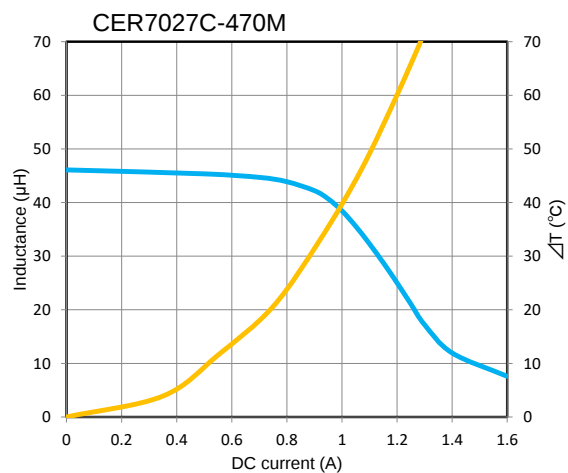
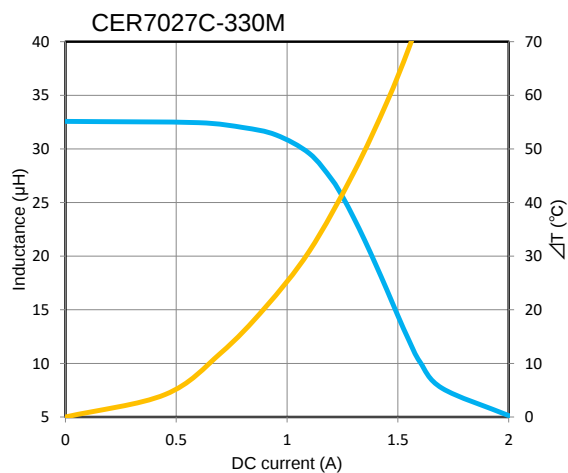
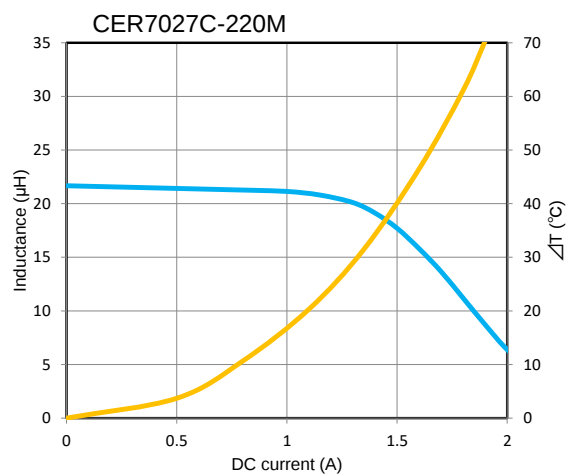
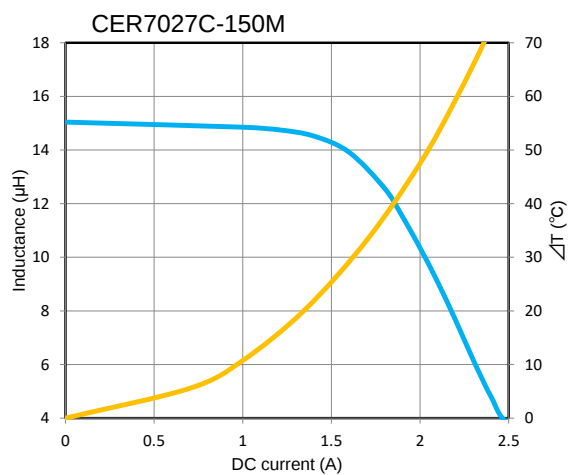
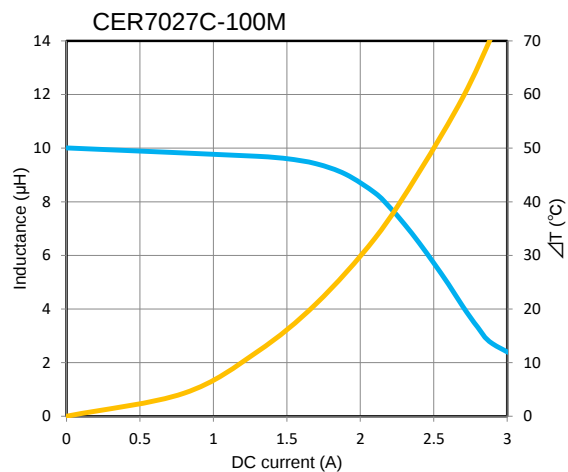
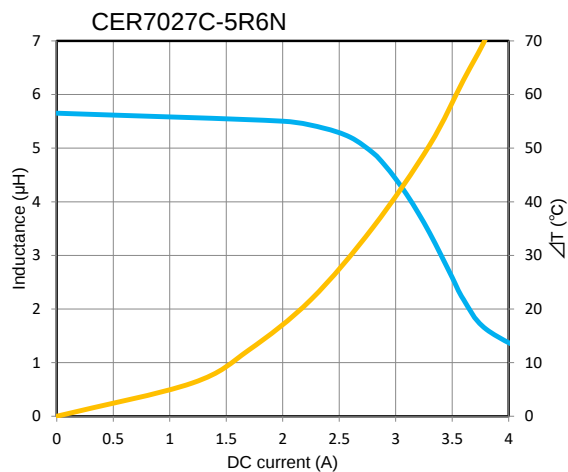
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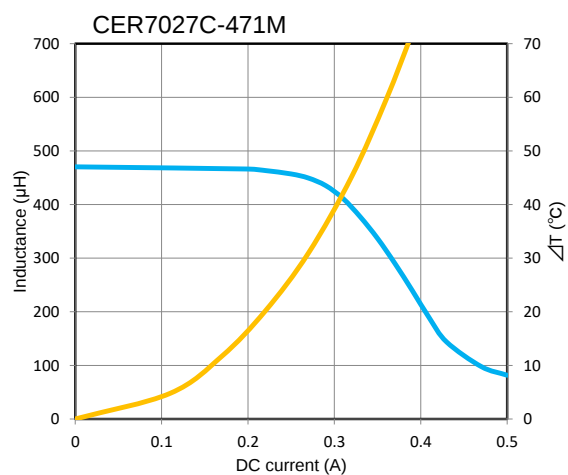
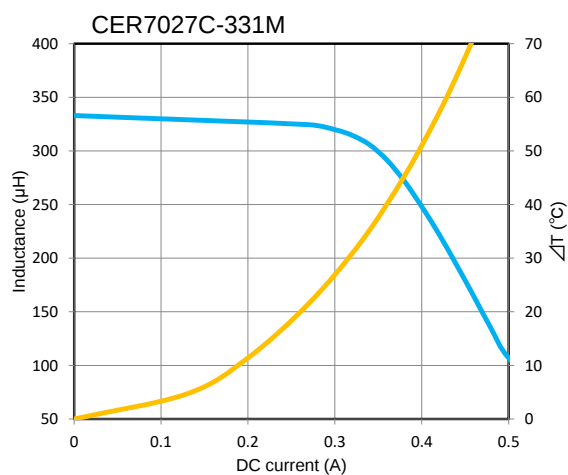
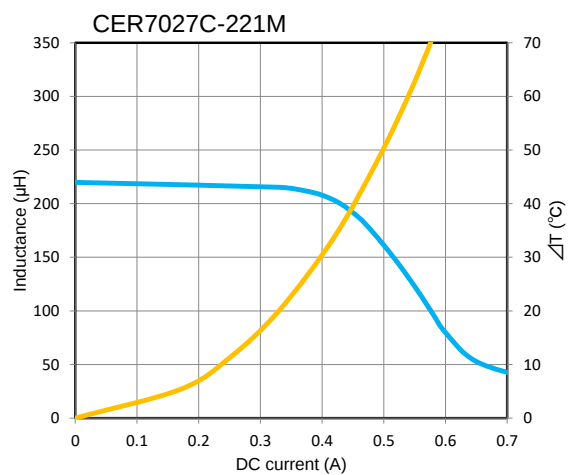
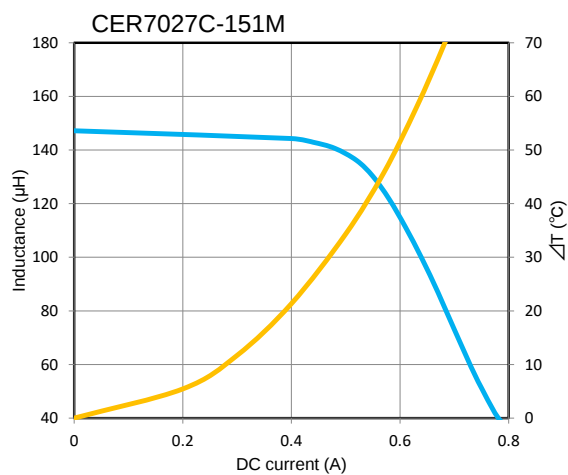
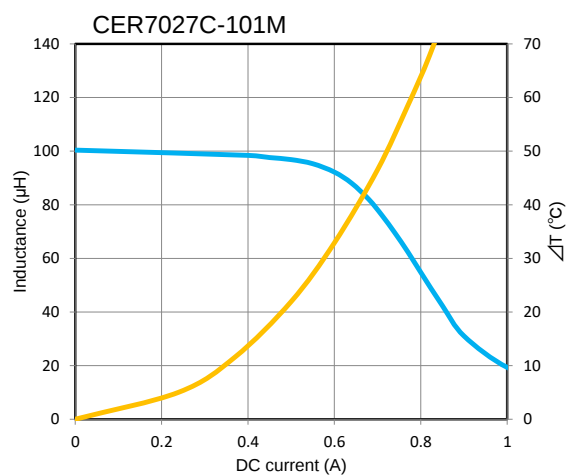
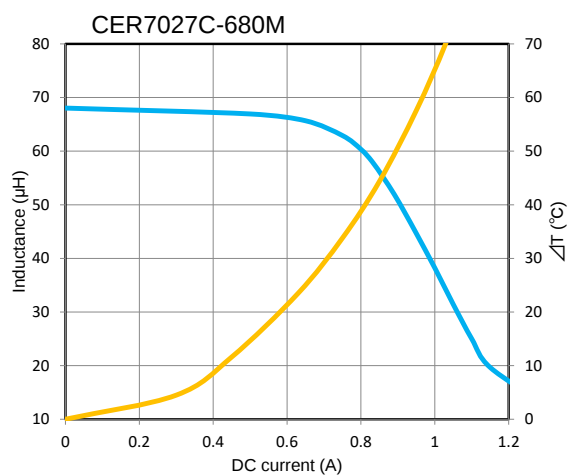
DC bias characteristics vs Temperature Rise Graph



L(25°C)



ΔT



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DC bias characteristics vs Temperature Rise Graph

■ $L(25^{\circ}\text{C})$ ■ ΔT

