

CER8042C

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 :

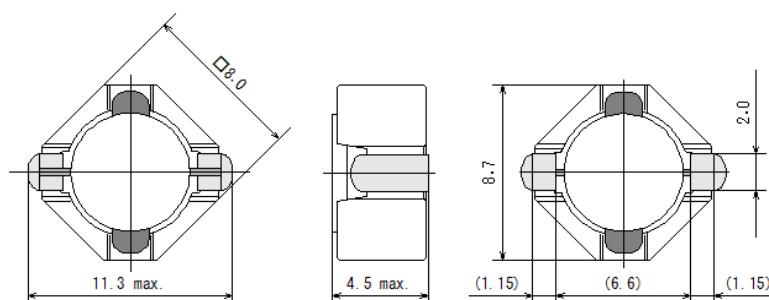


Weight : 0.91 g

■ Applications

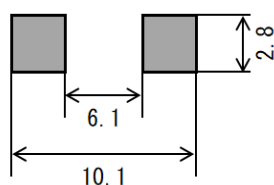
- Automotive/Car Audio,Car Navigation,ECU,LED Headlights
- Others/Power Supply,FA,Medical,Energy

■ 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
CER8042C-1R1N	1.1 $\pm 30\%$	0.00600	13.2	10.2	8.00	6.05
CER8042C-1R6N	1.6 $\pm 30\%$	0.00700	10.8	8.50	7.15	5.35
CER8042C-2R2N	2.2 $\pm 30\%$	0.0100	8.90	7.00	6.15	4.60
CER8042C-3R0N	3 $\pm 30\%$	0.0120	8.00	6.20	5.50	4.15
CER8042C-3R9N	3.9 $\pm 30\%$	0.0160	7.15	5.30	4.65	3.50
CER8042C-4R7N	4.7 $\pm 30\%$	0.0200	6.35	4.80	4.20	3.15
CER8042C-6R2N	6.2 $\pm 30\%$	0.0240	5.80	4.40	3.85	2.85
CER8042C-6R8N	6.8 $\pm 30\%$	0.0290	5.20	4.00	3.50	2.60
CER8042C-8R2N	8.2 $\pm 30\%$	0.0370	4.65	3.80	3.10	2.30
CER8042C-100M	10 $\pm 20\%$	0.0390	4.50	3.50	2.95	2.20
CER8042C-120M	12 $\pm 20\%$	0.0490	4.15	3.20	2.70	2.00
CER8042C-150M	15 $\pm 20\%$	0.0620	3.65	2.80	2.35	1.75
CER8042C-180M	18 $\pm 20\%$	0.0720	3.15	2.55	2.20	1.60
CER8042C-220M	22 $\pm 20\%$	0.0850	2.95	2.30	2.05	1.50
CER8042C-270M	27 $\pm 20\%$	0.100	2.75	2.00	1.85	1.35
CER8042C-330M	33 $\pm 20\%$	0.120	2.45	1.85	1.70	1.25
CER8042C-390M	39 $\pm 20\%$	0.150	2.20	1.70	1.55	1.10
CER8042C-470M	47 $\pm 20\%$	0.170	2.00	1.50	1.45	1.05
CER8042C-560M	56 $\pm 20\%$	0.210	1.90	1.40	1.30	0.940
CER8042C-680M	68 $\pm 20\%$	0.240	1.70	1.30	1.20	0.870
CER8042C-820M	82 $\pm 20\%$	0.300	1.55	1.15	1.05	0.780
CER8042C-101M	100 $\pm 20\%$	0.360	1.40	1.10	1.00	0.710
CER8042C-121M	120 $\pm 20\%$	0.450	1.25	1.00	0.890	0.640
CER8042C-151M	150 $\pm 20\%$	0.540	1.10	0.900	0.810	0.580
CER8042C-181M	180 $\pm 20\%$	0.690	1.00	0.800	0.720	0.510
CER8042C-221M	220 $\pm 20\%$	0.770	0.950	0.700	0.680	0.480
CER8042C-271M	270 $\pm 20\%$	0.960	0.860	0.650	0.610	0.430
CER8042C-331M	330 $\pm 20\%$	1.20	0.750	0.600	0.550	0.380
CER8042C-391M	390 $\pm 20\%$	1.54	0.720	0.550	0.480	0.340
CER8042C-471M	470 $\pm 20\%$	1.70	0.660	0.500	0.460	0.320
CER8042C-561M	560 $\pm 20\%$	2.16	0.600	0.470	0.410	0.280
CER8042C-681M	680 $\pm 20\%$	2.39	0.550	0.430	0.390	0.270
CER8042C-821M	820 $\pm 20\%$	3.05	0.490	0.390	0.340	0.240
CER8042C-102M	1000 $\pm 20\%$	3.49	0.450	0.350	0.320	0.220

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



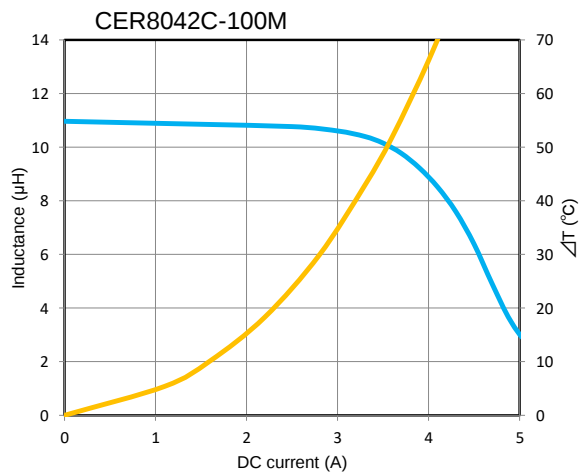
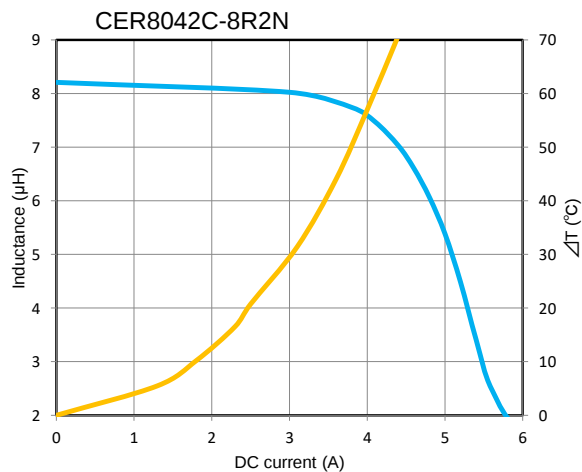
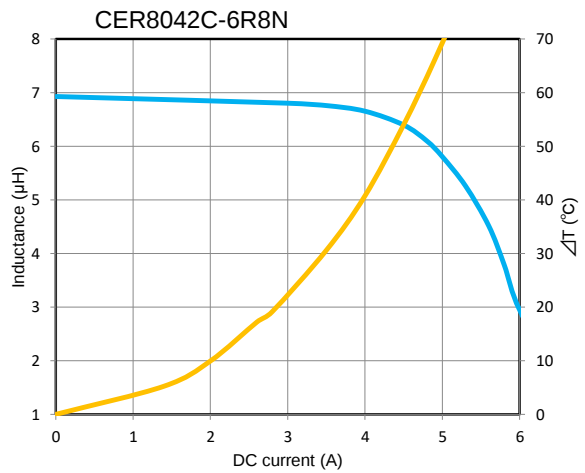
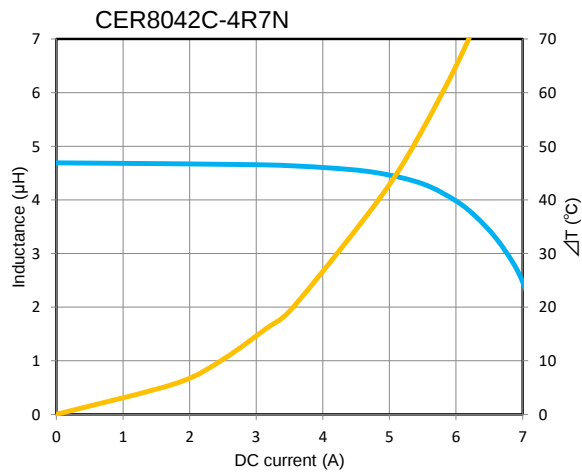
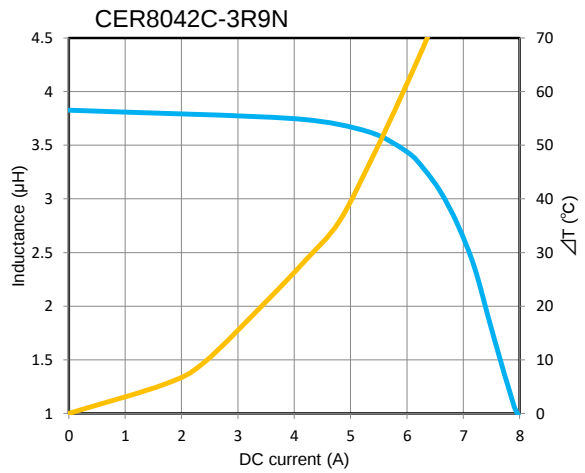
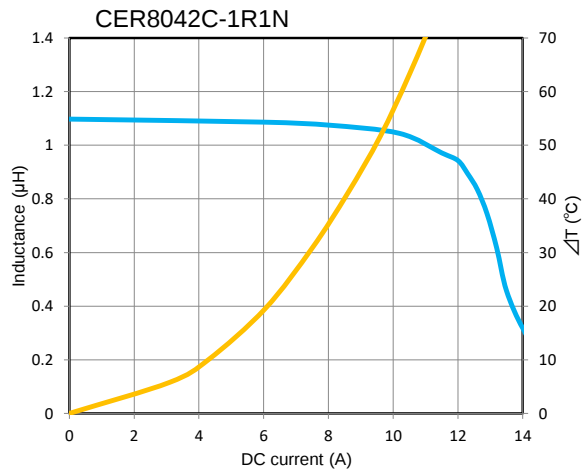
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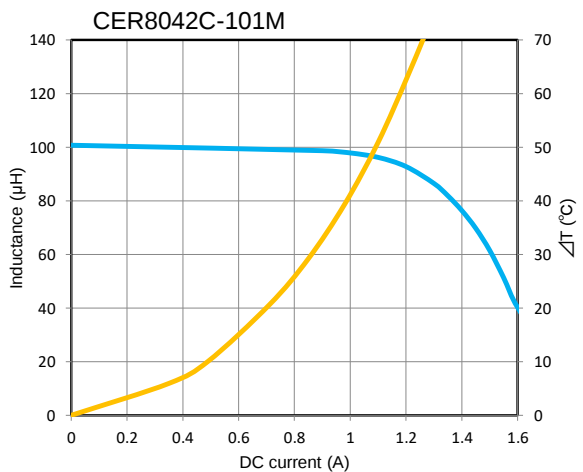
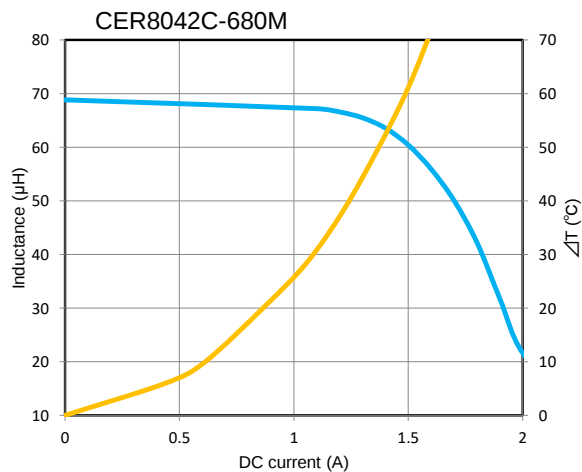
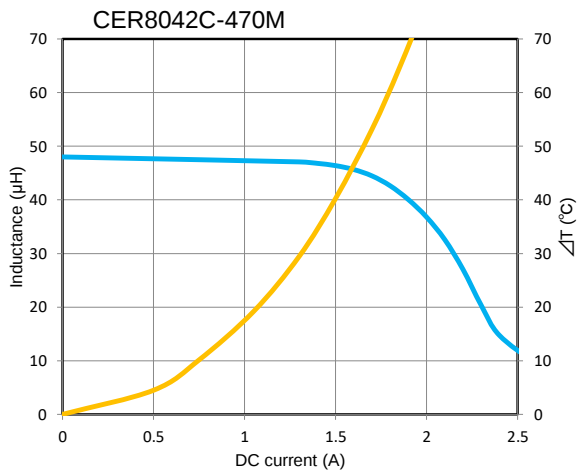
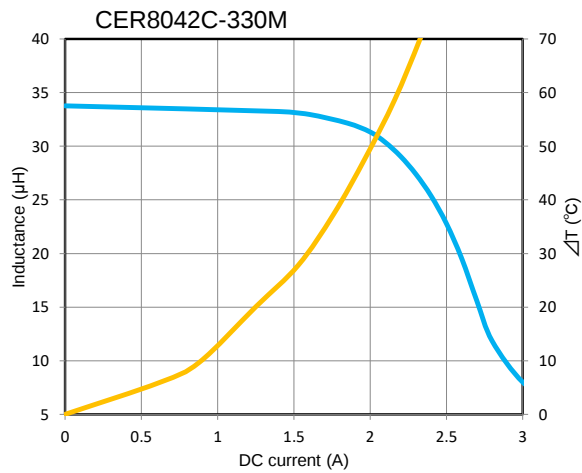
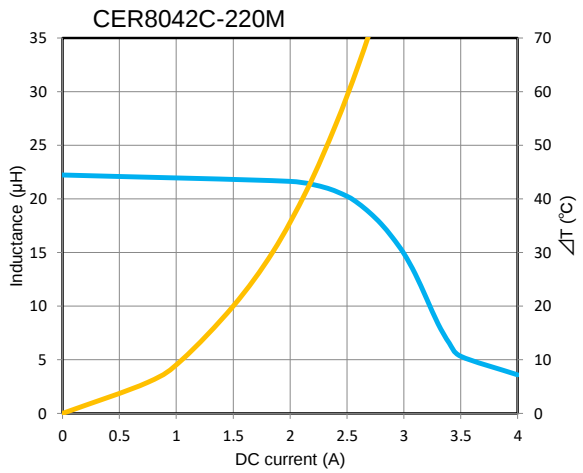
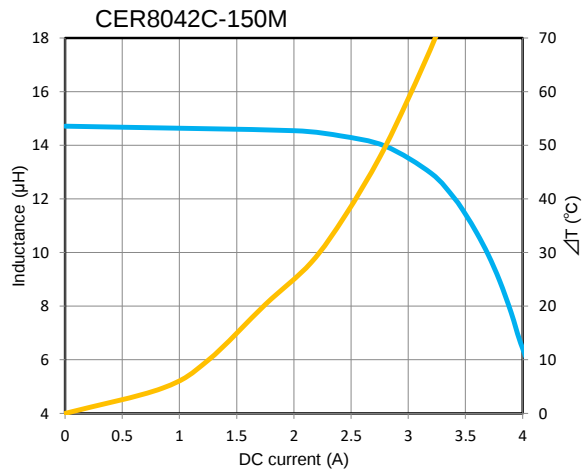
DC bias characteristics vs Temperature Rise Graph

■ $L(25^{\circ}\text{C})$
■ ΔT



DC bias characteristics vs Temperature Rise Graph

— $L(25^{\circ}\text{C})$
— ΔT



DC bias characteristics vs Temperature Rise Graph

— $L(25^{\circ}\text{C})$
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