

CER1242C

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 :

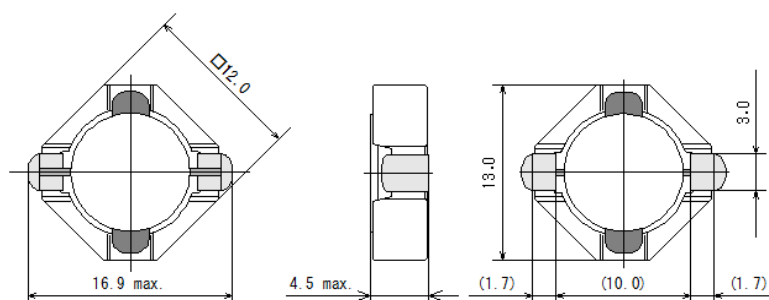


Weight : 2.1 g

■ Applications

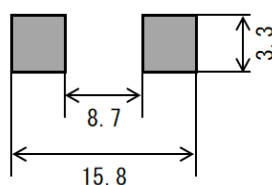
- Automotive/Car Audio,Car Navigation,ECU,LED Headlights
- Others/Power Supply,FA,Medical,Energy

■ Dimensions



(Unit : mm)

■ Recommended Land Pattern



(Unit : mm)



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<https://www.sagami-elec.co.jp>

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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
CER1242C-1R3N	1.3 $\pm 30\%$	0.00600	16.0	12.0	9.90	6.80
CER1242C-2R2N	2.2 $\pm 30\%$	0.00800	12.0	9.00	8.75	5.95
CER1242C-3R3N	3.3 $\pm 30\%$	0.0100	10.4	7.20	7.75	5.30
CER1242C-4R7N	4.7 $\pm 30\%$	0.0120	8.90	6.60	7.05	4.85
CER1242C-6R2N	6.2 $\pm 30\%$	0.0140	7.80	5.40	6.50	4.50
CER1242C-7R5N	7.5 $\pm 30\%$	0.0160	7.00	4.90	6.00	4.20
CER1242C-100M	10 $\pm 20\%$	0.0210	6.25	4.50	5.20	3.60
CER1242C-120M	12 $\pm 20\%$	0.0260	5.55	4.00	4.60	3.30
CER1242C-150M	15 $\pm 20\%$	0.0290	5.15	3.60	4.35	3.10
CER1242C-180M	18 $\pm 20\%$	0.0380	4.45	3.10	3.75	2.70
CER1242C-220M	22 $\pm 20\%$	0.0450	4.15	2.80	3.40	2.50
CER1242C-270M	27 $\pm 20\%$	0.0560	3.65	2.55	3.05	2.20
CER1242C-330M	33 $\pm 20\%$	0.0650	3.50	2.25	2.85	1.95
CER1242C-390M	39 $\pm 20\%$	0.0840	3.10	2.10	2.45	1.75
CER1242C-470M	47 $\pm 20\%$	0.0950	2.60	1.82	2.30	1.65
CER1242C-560M	56 $\pm 20\%$	0.120	2.45	1.75	2.05	1.44
CER1242C-680M	68 $\pm 20\%$	0.140	2.30	1.65	1.85	1.35
CER1242C-820M	82 $\pm 20\%$	0.160	2.05	1.48	1.70	1.23
CER1242C-101M	100 $\pm 20\%$	0.200	1.80	1.33	1.55	1.15
CER1242C-121M	120 $\pm 20\%$	0.230	1.70	1.24	1.40	1.02
CER1242C-151M	150 $\pm 20\%$	0.290	1.50	1.05	1.25	0.920
CER1242C-181M	180 $\pm 20\%$	0.350	1.35	0.980	1.15	0.820
CER1242C-221M	220 $\pm 20\%$	0.450	1.20	0.930	1.00	0.730
CER1242C-271M	270 $\pm 20\%$	0.550	1.10	0.820	0.910	0.660
CER1242C-331M	330 $\pm 20\%$	0.670	1.00	0.700	0.810	0.590
CER1242C-391M	390 $\pm 20\%$	0.820	0.920	0.650	0.740	0.520
CER1242C-471M	470 $\pm 20\%$	0.920	0.830	0.580	0.690	0.480
CER1242C-561M	560 $\pm 20\%$	1.10	0.760	0.540	0.630	0.450
CER1242C-681M	680 $\pm 20\%$	1.37	0.690	0.510	0.560	0.400
CER1242C-821M	820 $\pm 20\%$	1.67	0.640	0.450	0.500	0.360
CER1242C-102M	1000 $\pm 20\%$	1.87	0.580	0.430	0.470	0.340

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



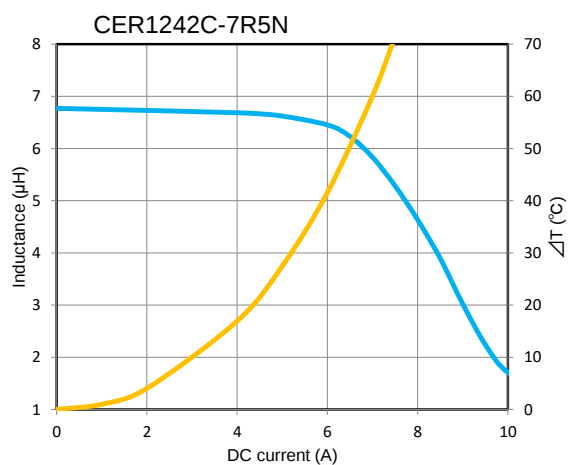
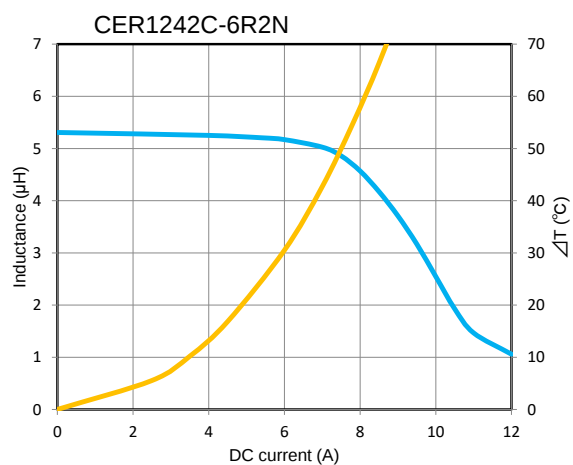
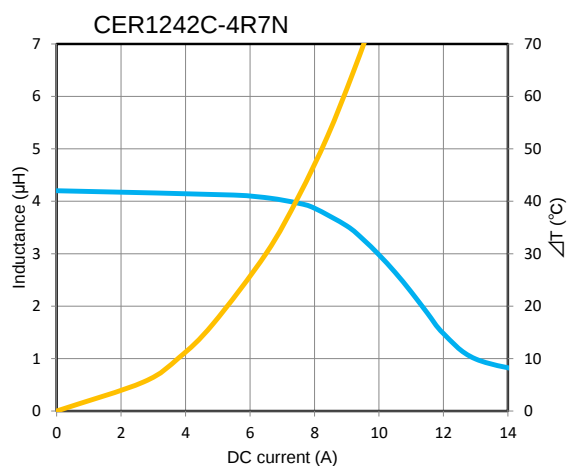
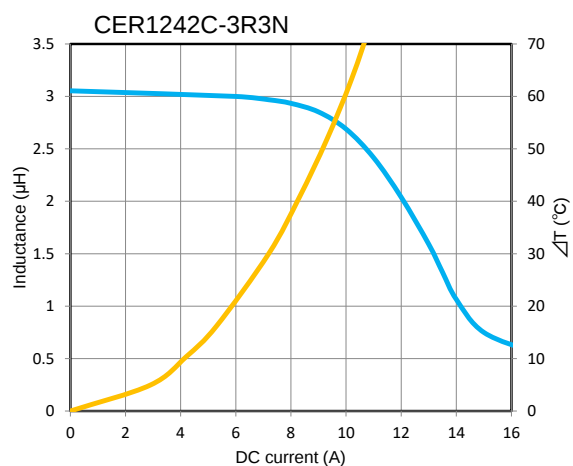
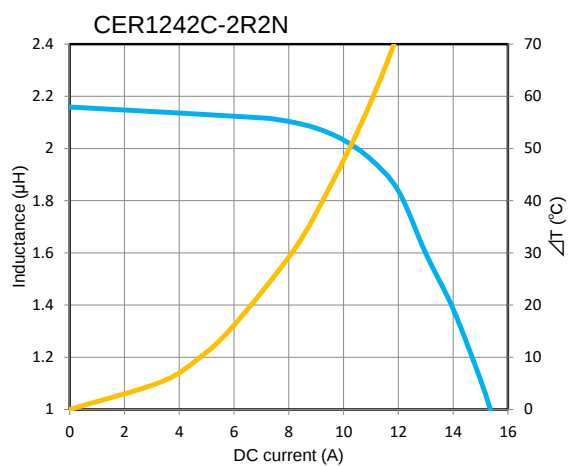
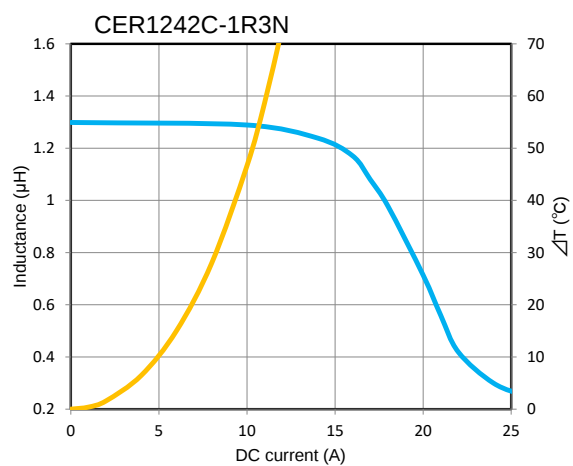
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DC bias characteristics vs Temperature Rise Graph

— L(25°C)
 — ΔT



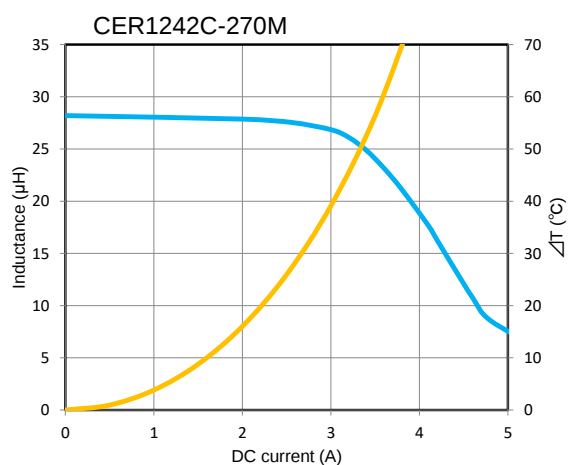
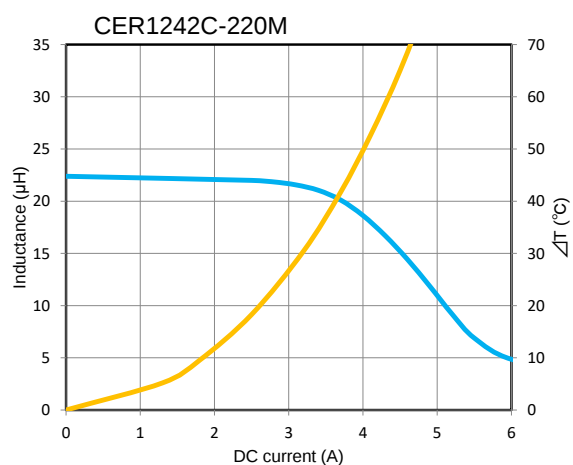
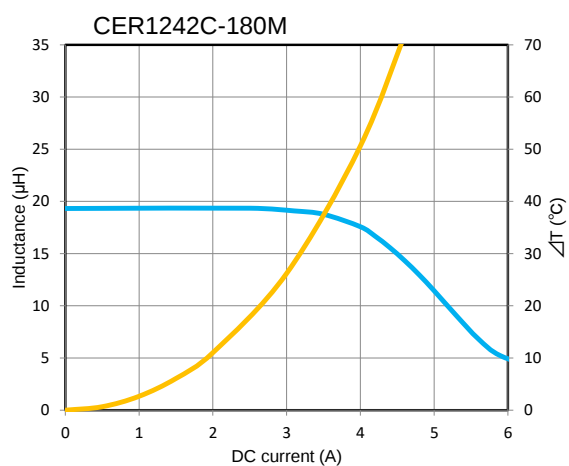
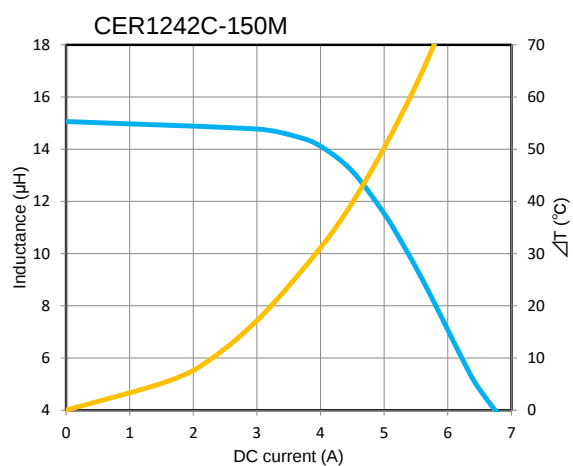
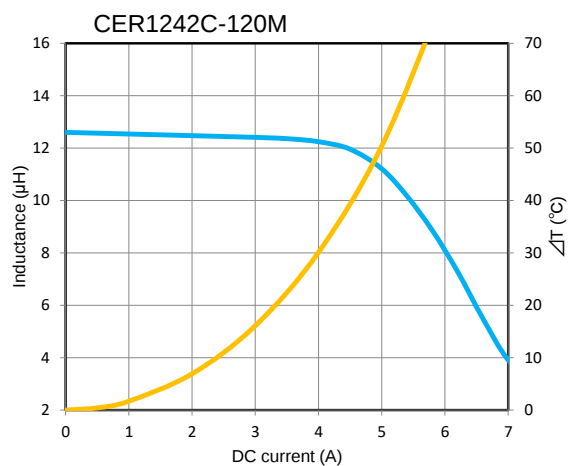
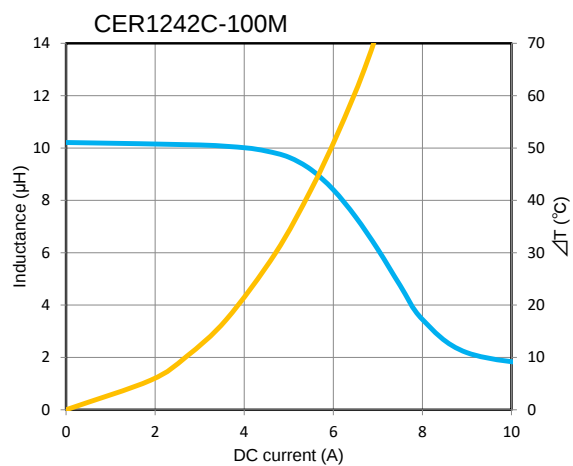
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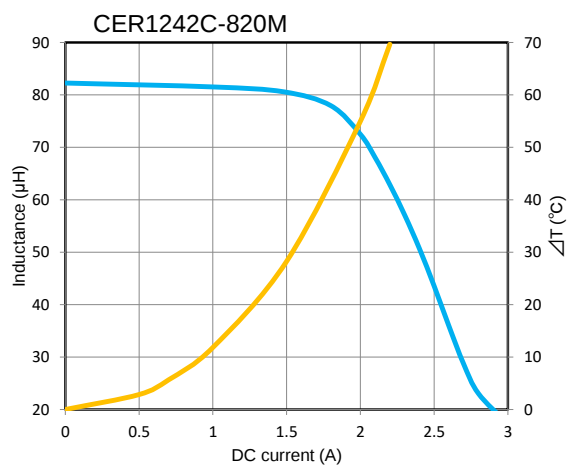
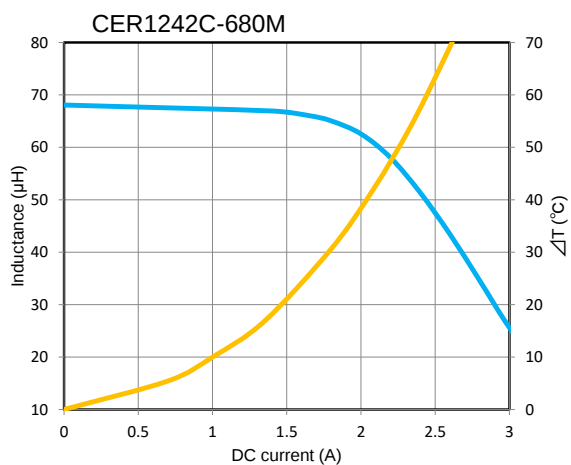
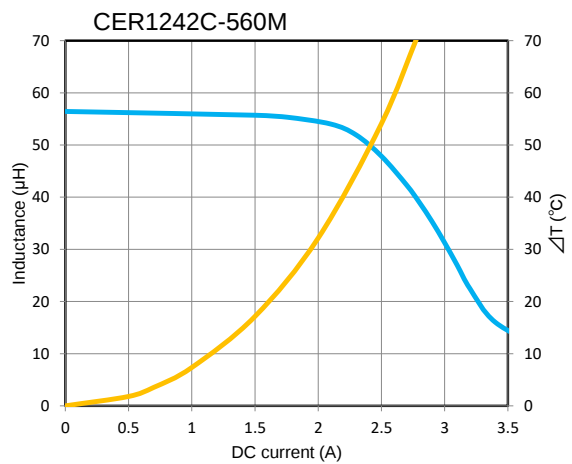
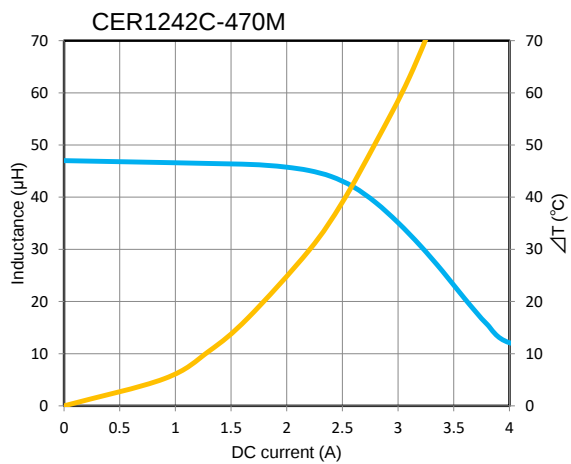
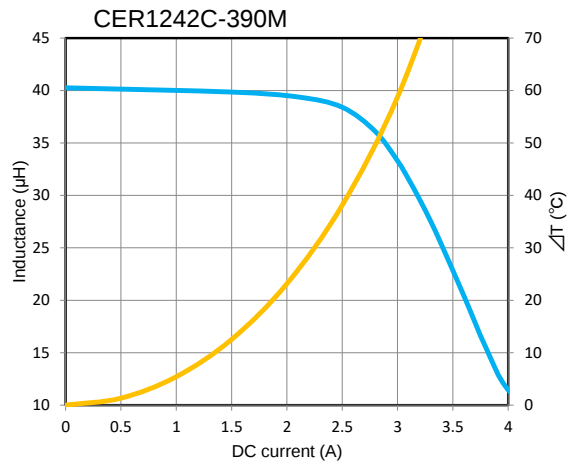
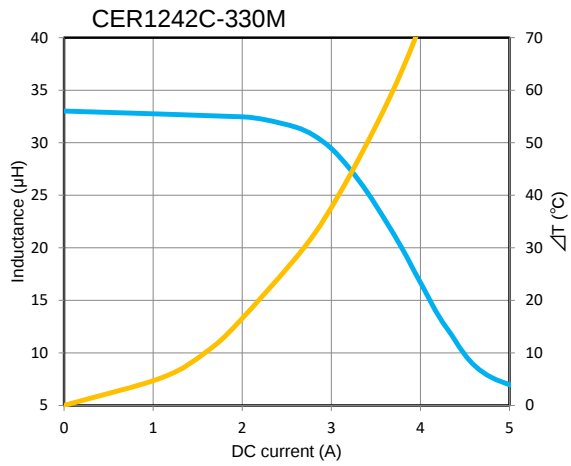
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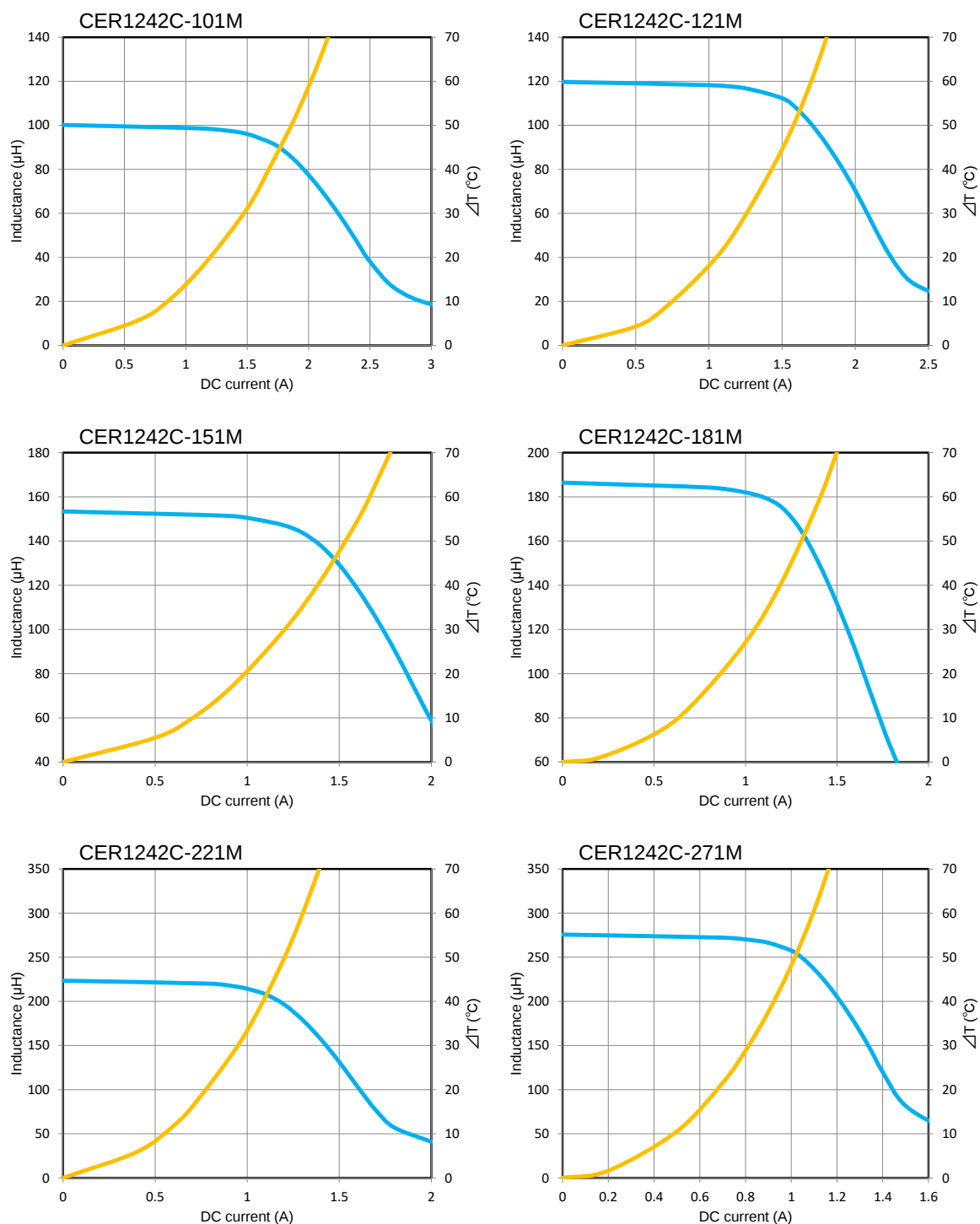
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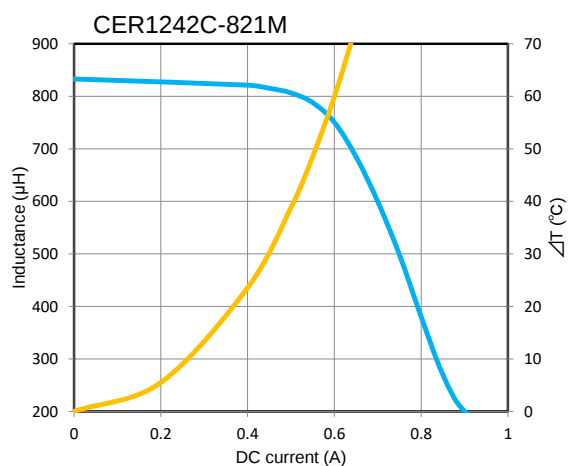
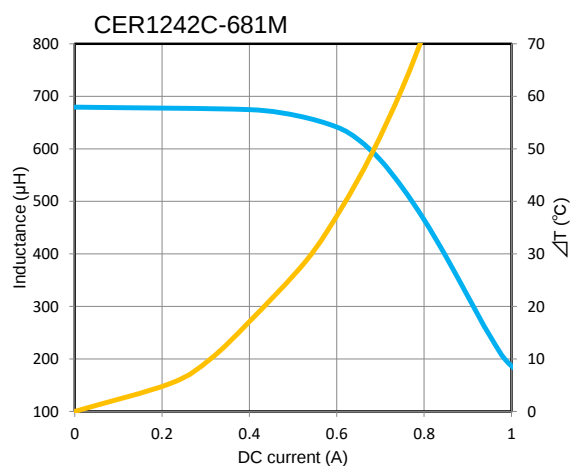
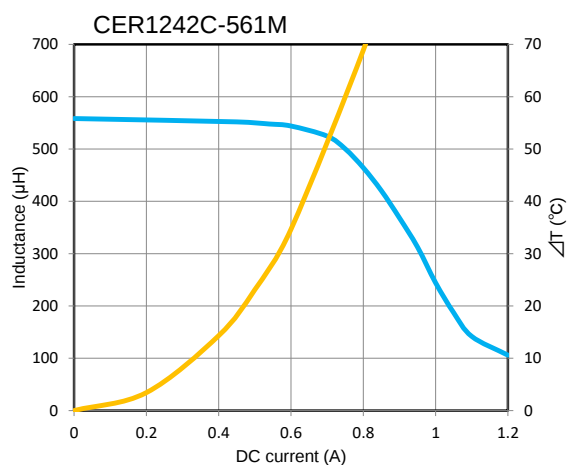
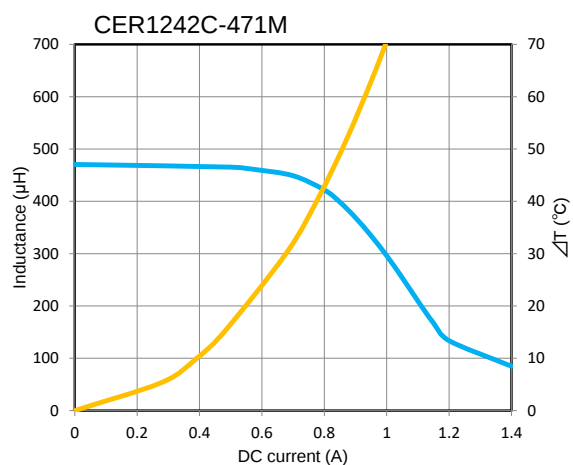
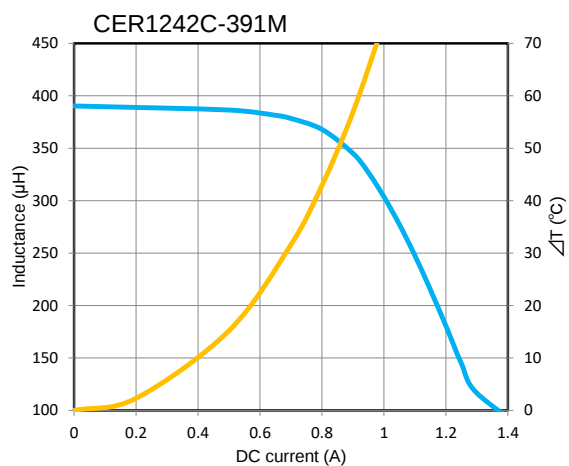
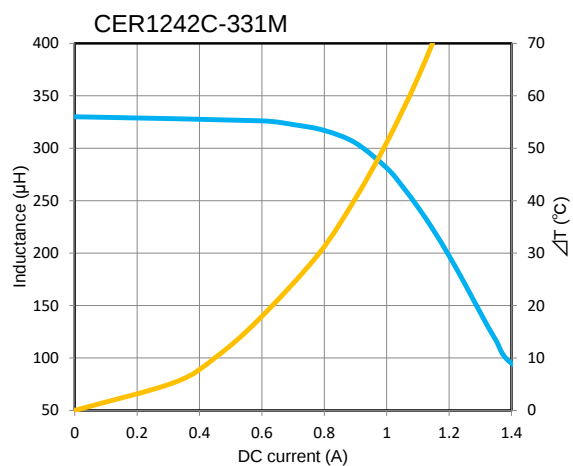
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