

CER1257C

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 :

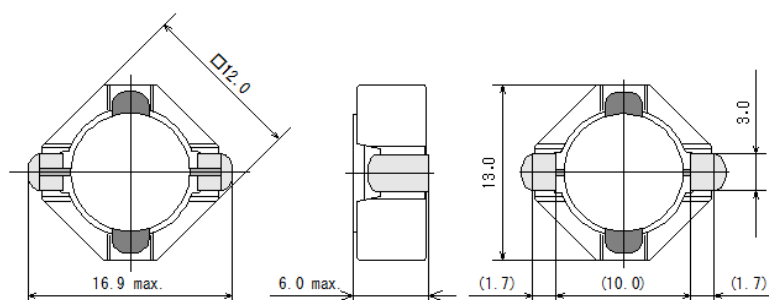


Weight : 2.9 g

■ Applications

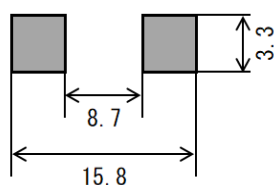
- Automotive/Car Audio,Car Navigation,ECU,LED Headlights
- Others/Power Supply,FA,Medical,Energy

■ 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
CER1257C-2R2N	2.2 $\pm 30\%$	0.00600	17.1	11.4	9.90	6.80
CER1257C-3R3N	3.3 $\pm 30\%$	0.00800	13.1	9.40	8.95	5.70
CER1257C-4R3N	4.3 $\pm 30\%$	0.00900	11.7	8.10	8.15	5.45
CER1257C-5R6N	5.6 $\pm 30\%$	0.0110	10.5	7.10	7.50	5.00
CER1257C-7R5N	7.5 $\pm 30\%$	0.0120	8.85	6.20	7.00	4.70
CER1257C-100M	10 $\pm 20\%$	0.0170	8.10	5.60	5.80	4.00
CER1257C-120M	12 $\pm 20\%$	0.0220	7.25	5.00	5.15	3.70
CER1257C-150M	15 $\pm 20\%$	0.0260	6.25	4.40	4.60	3.30
CER1257C-180M	18 $\pm 20\%$	0.0290	5.70	4.00	4.40	2.95
CER1257C-220M	22 $\pm 20\%$	0.0330	5.50	3.70	4.10	2.65
CER1257C-270M	27 $\pm 20\%$	0.0430	4.75	3.20	3.55	2.55
CER1257C-330M	33 $\pm 20\%$	0.0530	4.00	2.95	3.15	2.30
CER1257C-390M	39 $\pm 20\%$	0.0560	3.75	2.75	3.05	2.20
CER1257C-470M	47 $\pm 20\%$	0.0690	3.45	2.50	2.75	1.95
CER1257C-560M	56 $\pm 20\%$	0.0810	3.20	2.30	2.50	1.80
CER1257C-680M	68 $\pm 20\%$	0.0960	2.90	2.05	2.30	1.60
CER1257C-820M	82 $\pm 20\%$	0.130	2.60	1.85	1.95	1.40
CER1257C-101M	100 $\pm 20\%$	0.140	2.35	1.65	1.85	1.30
CER1257C-121M	120 $\pm 20\%$	0.180	2.15	1.50	1.65	1.20
CER1257C-151M	150 $\pm 20\%$	0.230	1.90	1.35	1.45	1.05
CER1257C-181M	180 $\pm 20\%$	0.260	1.75	1.20	1.30	1.00
CER1257C-221M	220 $\pm 20\%$	0.320	1.55	1.10	1.20	0.880
CER1257C-271M	270 $\pm 20\%$	0.380	1.40	1.00	1.10	0.810
CER1257C-331M	330 $\pm 20\%$	0.470	1.25	0.900	0.990	0.700
CER1257C-391M	390 $\pm 20\%$	0.540	1.15	0.800	0.920	0.670
CER1257C-471M	470 $\pm 20\%$	0.660	1.05	0.750	0.830	0.610
CER1257C-561M	560 $\pm 20\%$	0.790	1.00	0.700	0.750	0.540
CER1257C-681M	680 $\pm 20\%$	0.950	0.900	0.650	0.680	0.500
CER1257C-821M	820 $\pm 20\%$	1.15	0.790	0.550	0.610	0.440
CER1257C-102M	1000 $\pm 20\%$	1.42	0.730	0.500	0.550	0.400

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℃



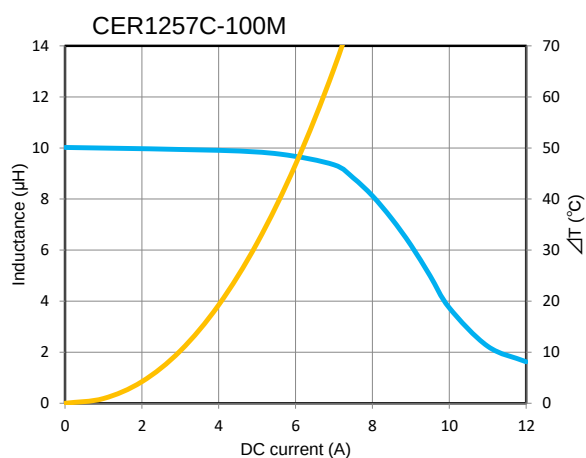
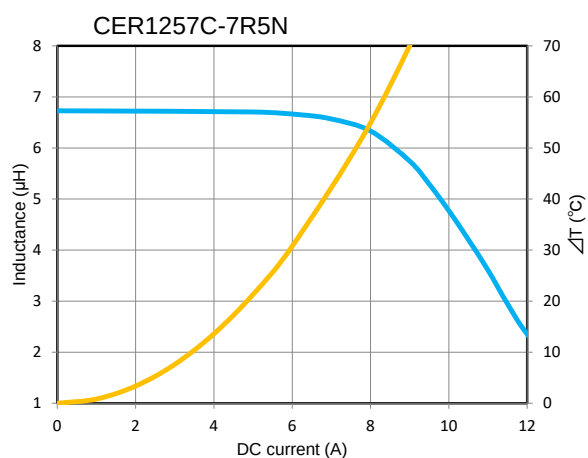
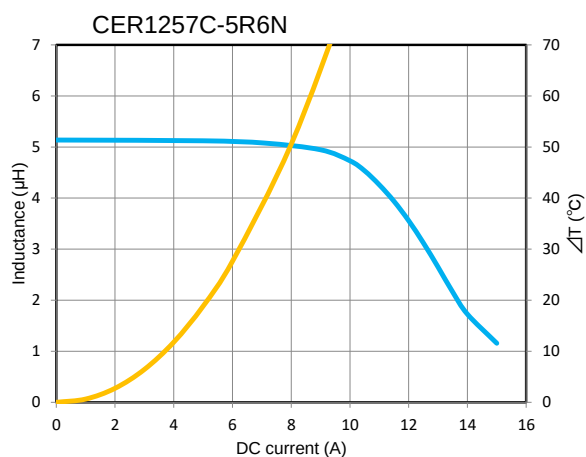
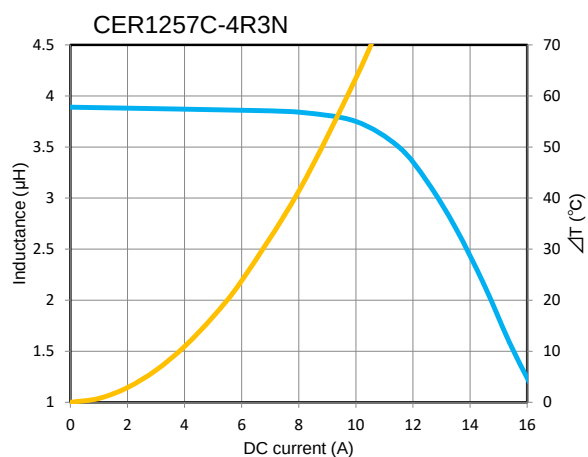
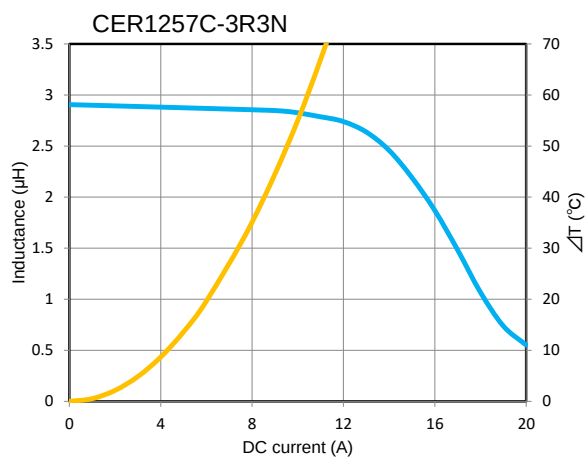
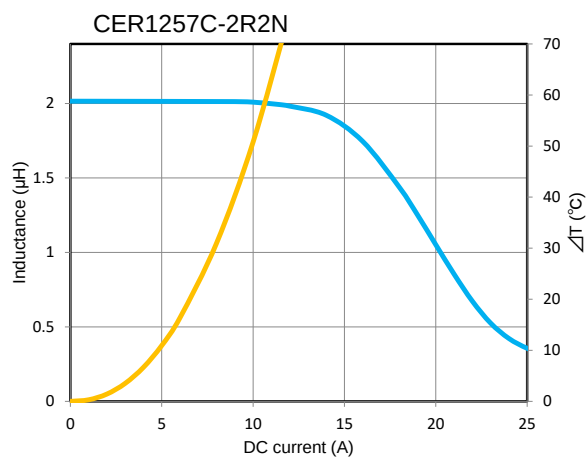
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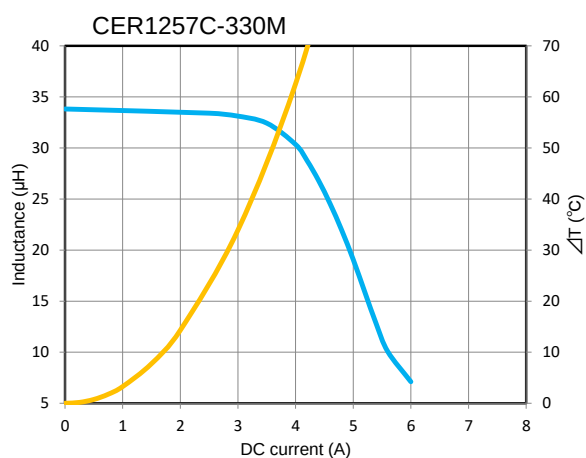
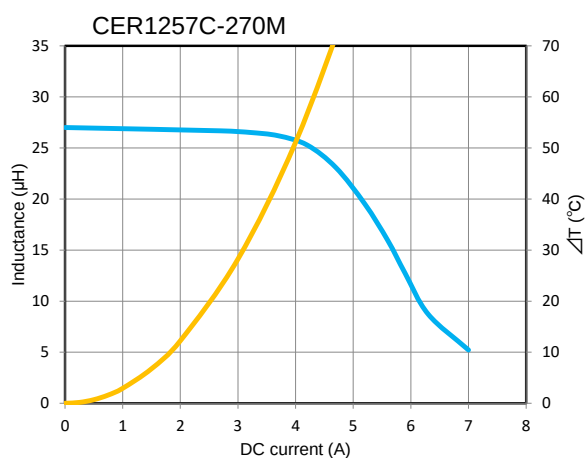
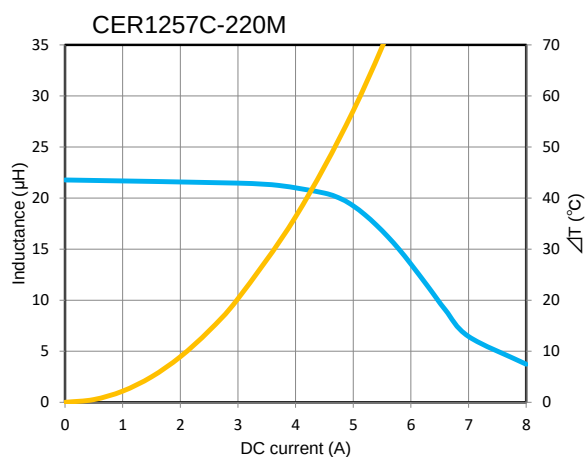
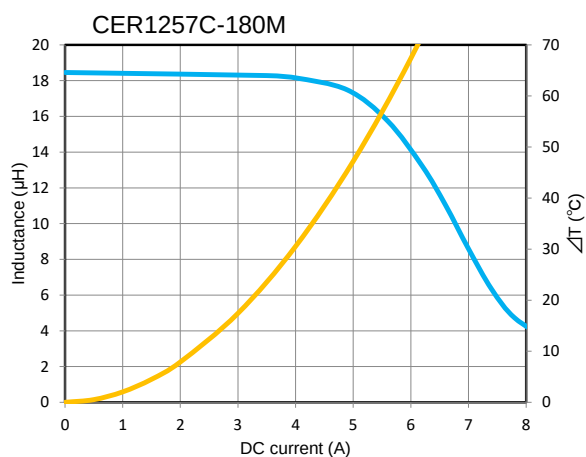
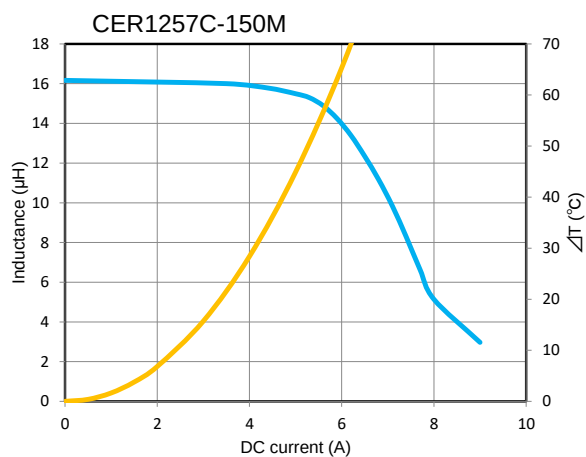
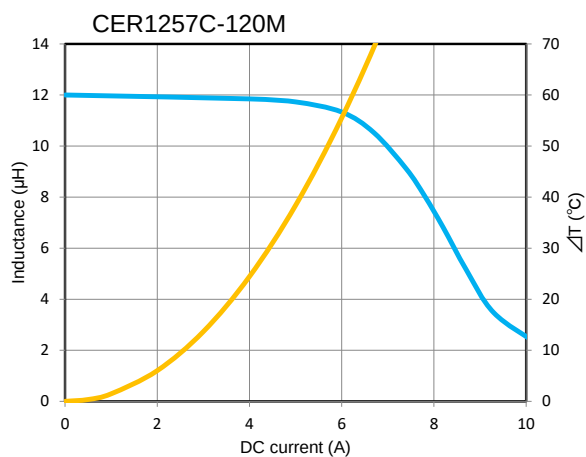
DC bias characteristics vs Temperature Rise Graph

■ L(25°C)
 ■ ΔT



DC bias characteristics vs Temperature Rise Graph

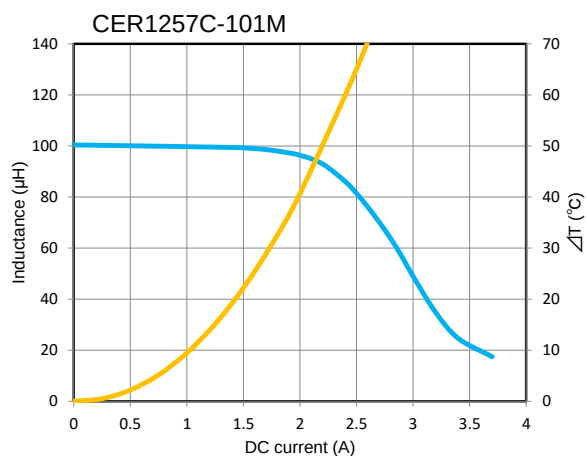
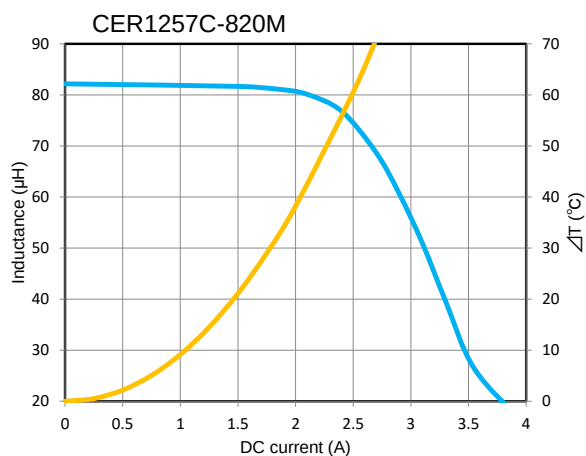
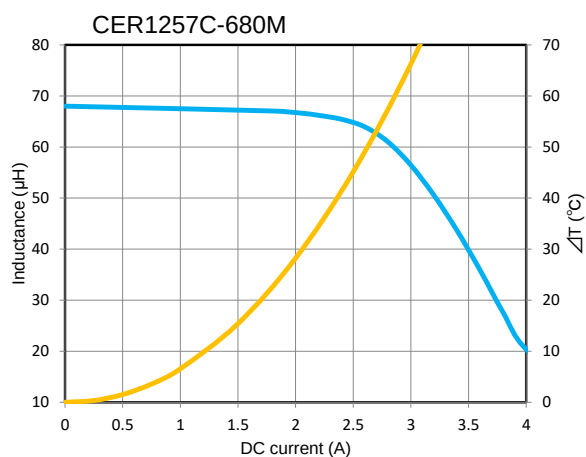
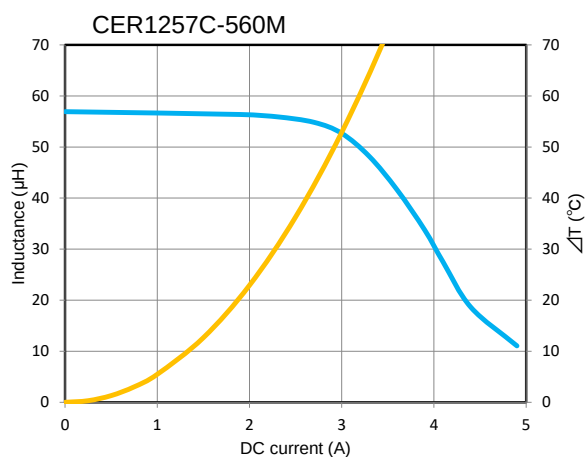
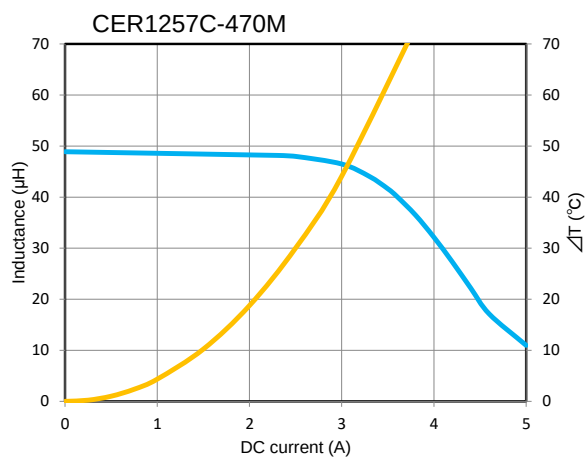
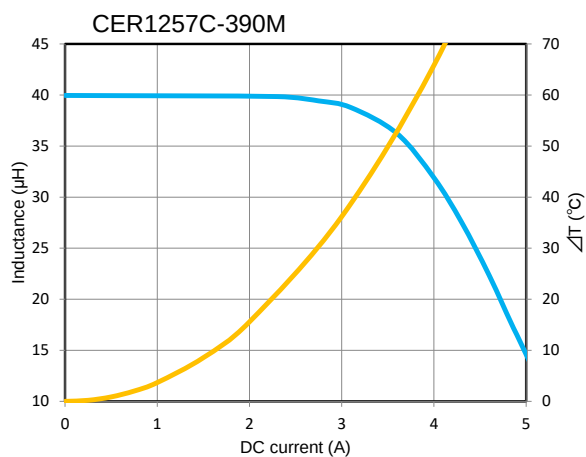
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DC bias characteristics vs Temperature Rise Graph

■ $L(25^{\circ}\text{C})$
■ ΔT



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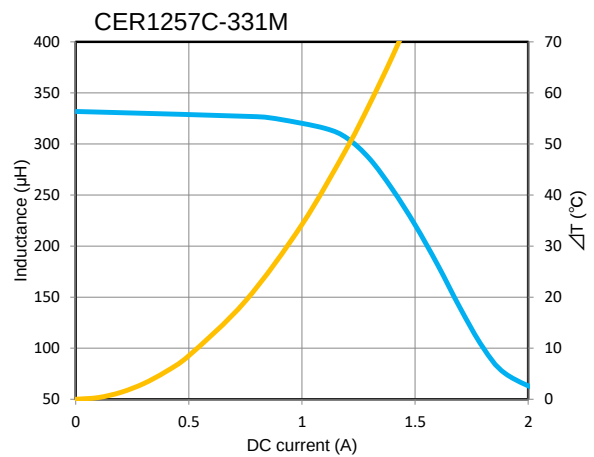
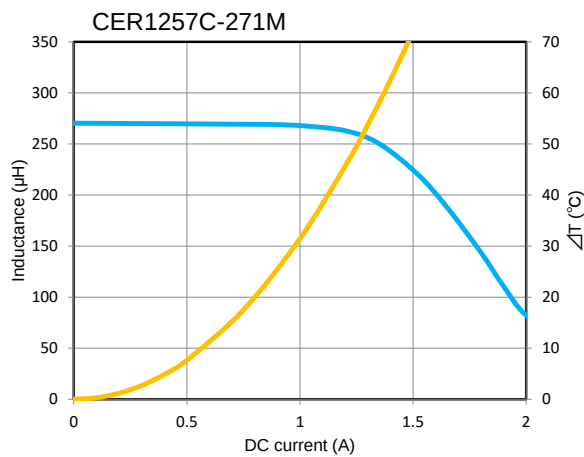
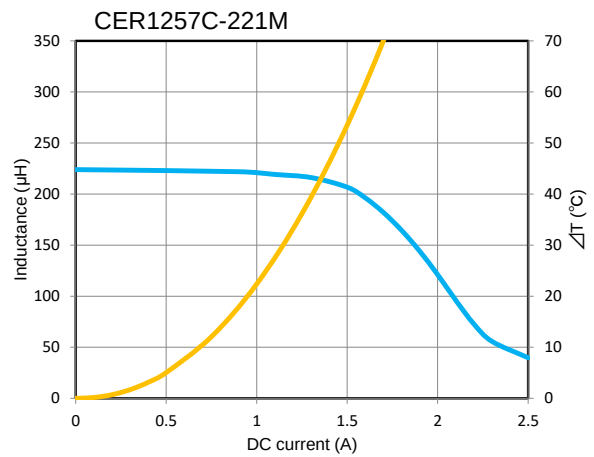
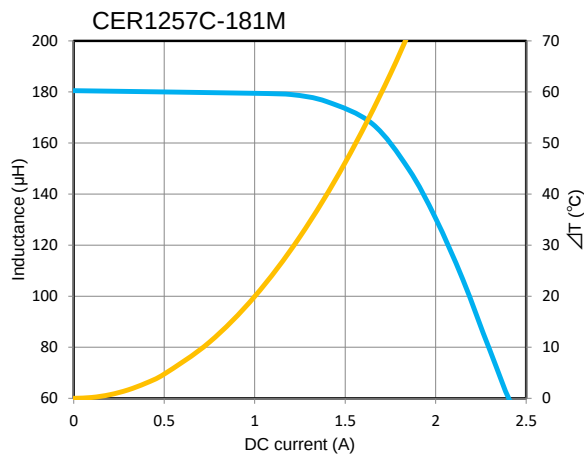
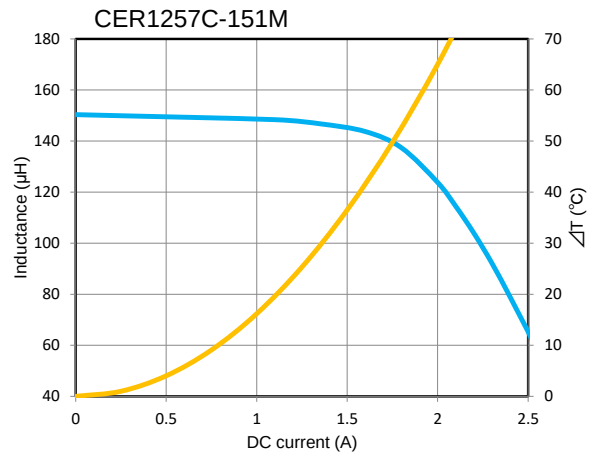
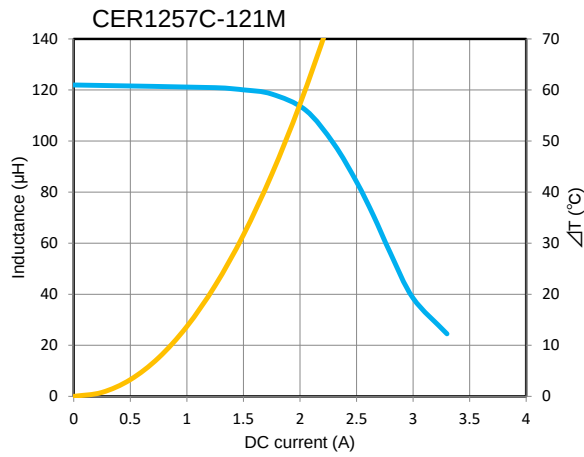
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L(25°C)



ΔT



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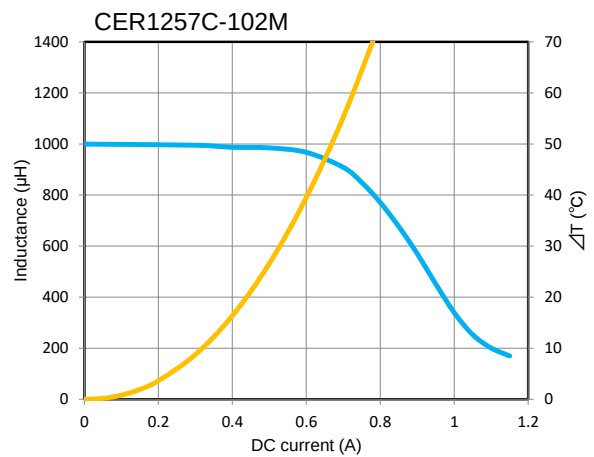
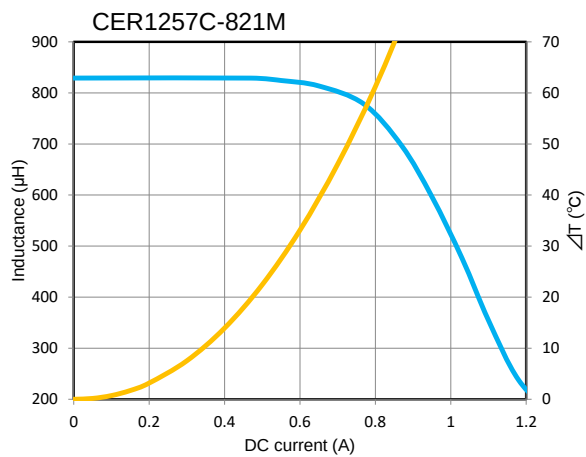
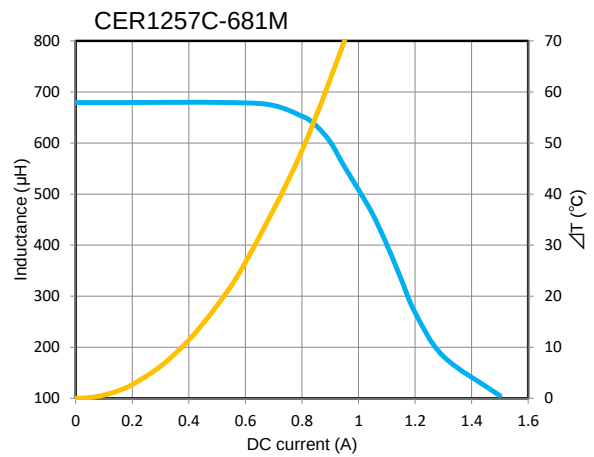
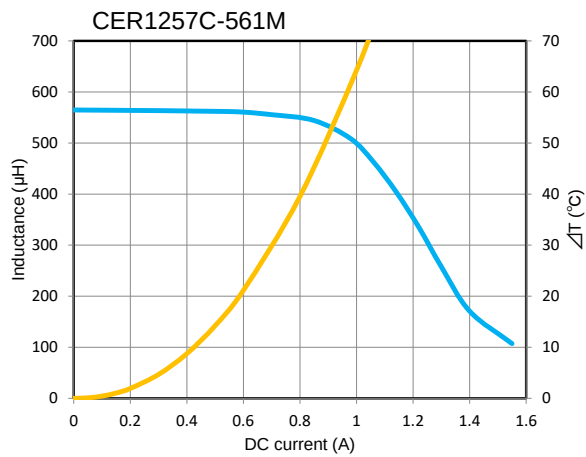
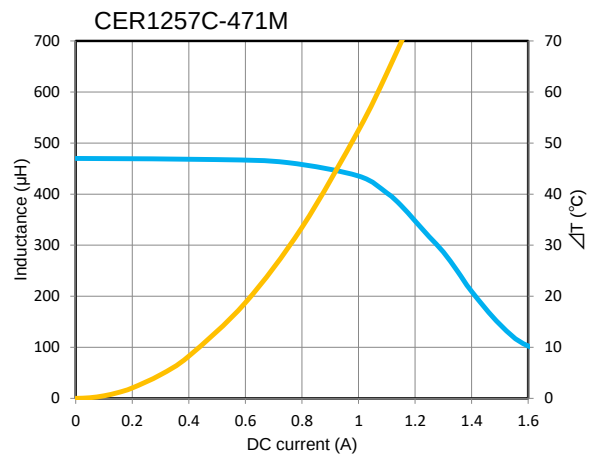
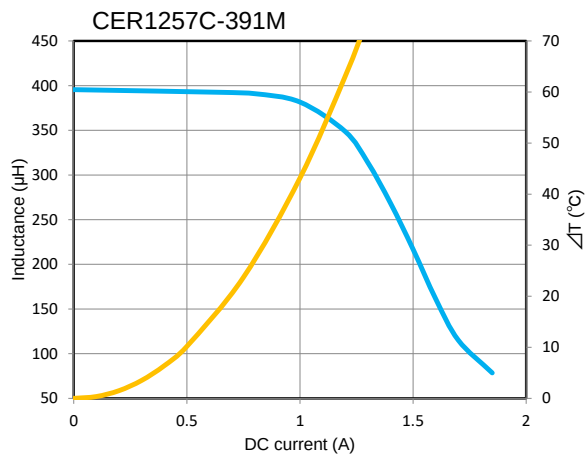
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