

CER1277C

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 :

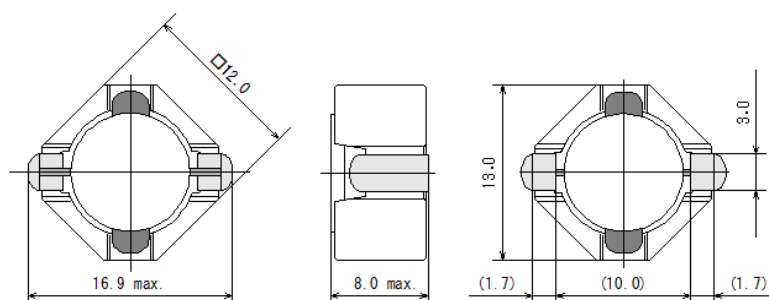


Weight : 4 g

■ Applications

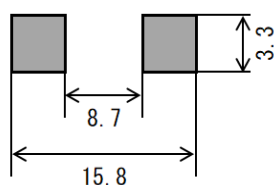
- Automotive/Car Audio,Car Navigation,ECU,LED Headlights
- Others/Power Supply,FA,Medical,Energy

■ Dimensions



(Unit : mm)

■ Recommended Land Pattern



(Unit : mm)



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

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Engineering Dept. TEL : +81 45 521 4543

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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
CER1277C-2R2N	2.2 $\pm 30\%$	0.00700	17.7	11.6	9.60	6.85
CER1277C-3R3N	3.3 $\pm 30\%$	0.00800	15.3	10.0	8.70	6.00
CER1277C-4R3N	4.3 $\pm 30\%$	0.0100	13.1	9.40	8.00	5.60
CER1277C-5R6N	5.6 $\pm 30\%$	0.0110	10.9	8.50	7.45	5.30
CER1277C-7R5N	7.5 $\pm 30\%$	0.0130	10.0	7.40	7.00	4.80
CER1277C-100M	10 $\pm 20\%$	0.0140	8.75	6.30	6.60	4.30
CER1277C-120M	12 $\pm 20\%$	0.0160	8.00	6.00	6.20	4.15
CER1277C-150M	15 $\pm 20\%$	0.0190	6.80	4.90	5.65	3.85
CER1277C-180M	18 $\pm 20\%$	0.0210	6.35	4.60	5.20	3.70
CER1277C-220M	22 $\pm 20\%$	0.0240	5.90	4.30	5.00	3.25
CER1277C-270M	27 $\pm 20\%$	0.0300	5.10	4.00	4.25	3.00
CER1277C-330M	33 $\pm 20\%$	0.0350	4.75	3.25	4.10	2.85
CER1277C-390M	39 $\pm 20\%$	0.0460	4.20	2.85	3.65	2.50
CER1277C-470M	47 $\pm 20\%$	0.0510	3.95	2.65	3.30	2.30
CER1277C-560M	56 $\pm 20\%$	0.0620	3.60	2.50	2.95	2.10
CER1277C-680M	68 $\pm 20\%$	0.0770	3.30	2.40	2.70	1.90
CER1277C-820M	82 $\pm 20\%$	0.0850	3.25	2.35	2.50	1.80
CER1277C-101M	100 $\pm 20\%$	0.110	2.65	2.20	2.25	1.60
CER1277C-121M	120 $\pm 20\%$	0.130	2.55	1.90	2.00	1.40
CER1277C-151M	150 $\pm 20\%$	0.180	2.15	1.60	1.70	1.20
CER1277C-181M	180 $\pm 20\%$	0.190	1.95	1.45	1.65	1.15
CER1277C-221M	220 $\pm 20\%$	0.240	1.85	1.35	1.45	1.05
CER1277C-271M	270 $\pm 20\%$	0.310	1.75	1.25	1.30	0.910
CER1277C-331M	330 $\pm 20\%$	0.340	1.40	1.00	1.20	0.880
CER1277C-391M	390 $\pm 20\%$	0.400	1.25	0.900	1.13	0.800
CER1277C-471M	470 $\pm 20\%$	0.510	1.15	0.800	1.00	0.700
CER1277C-561M	560 $\pm 20\%$	0.560	1.05	0.730	0.950	0.650
CER1277C-681M	680 $\pm 20\%$	0.730	1.00	0.680	0.820	0.600
CER1277C-821M	820 $\pm 20\%$	0.870	0.910	0.620	0.750	0.550
CER1277C-102M	1000 $\pm 20\%$	1.07	0.890	0.600	0.680	0.500

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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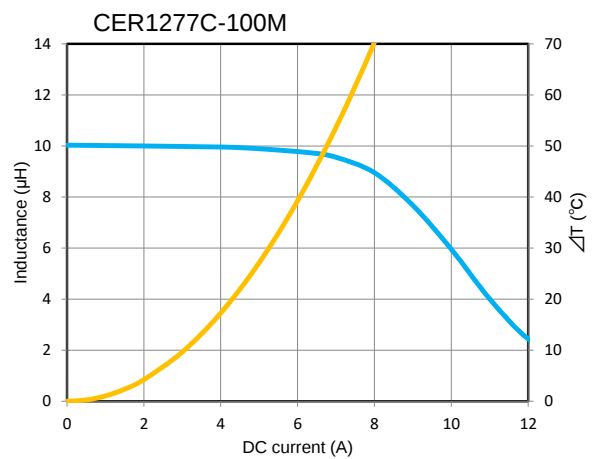
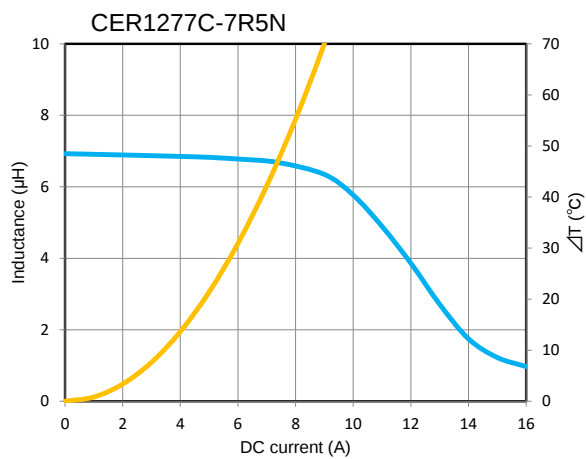
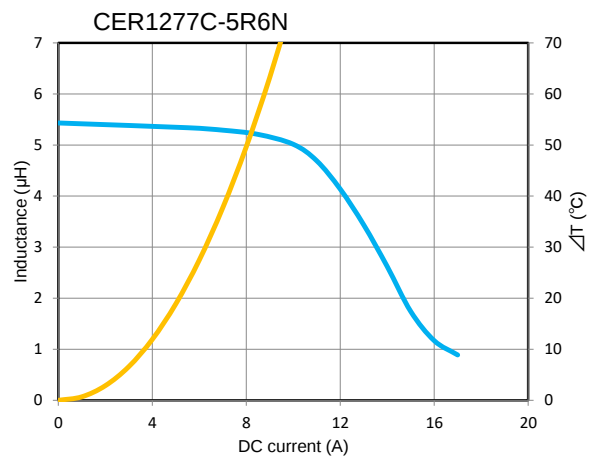
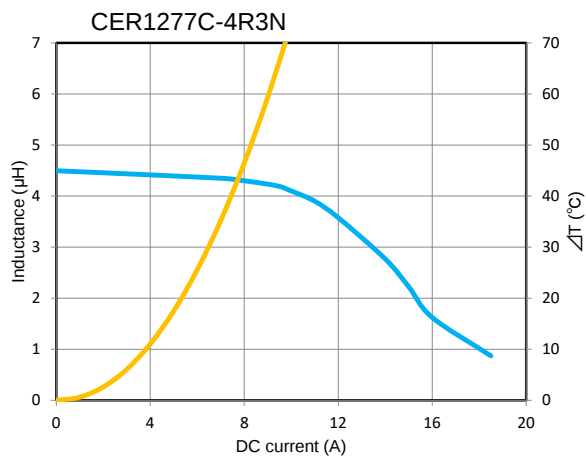
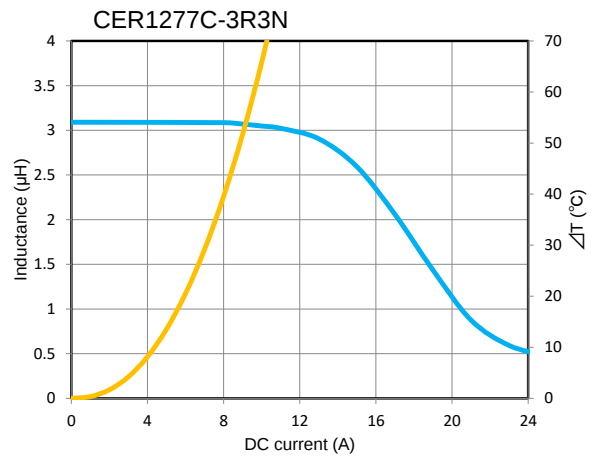
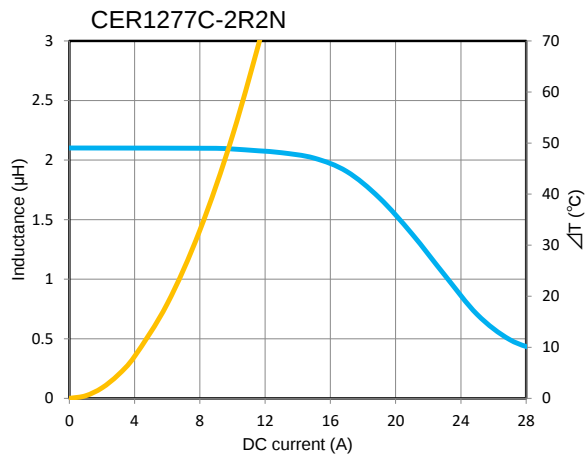
DC bias characteristics vs Temperature Rise Graph



L(25°C)



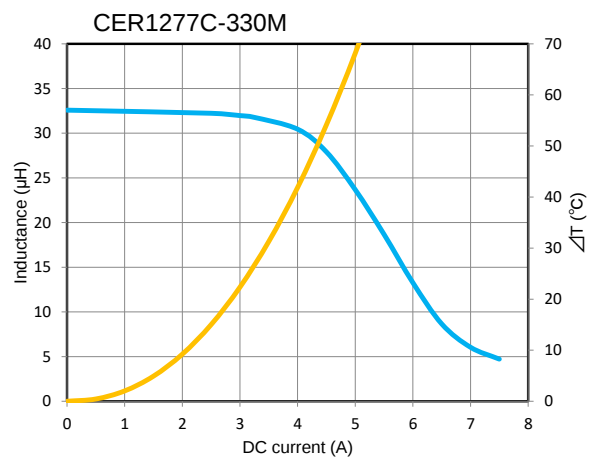
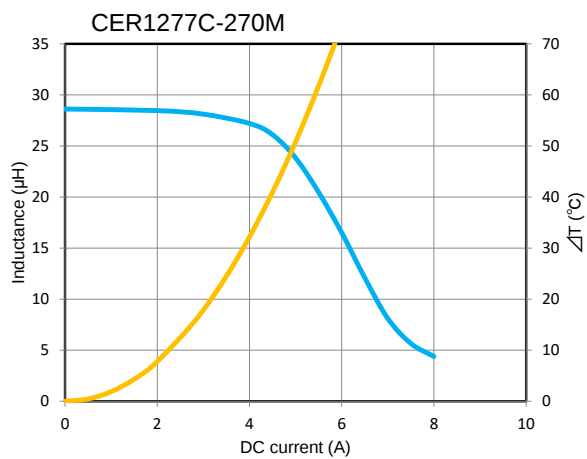
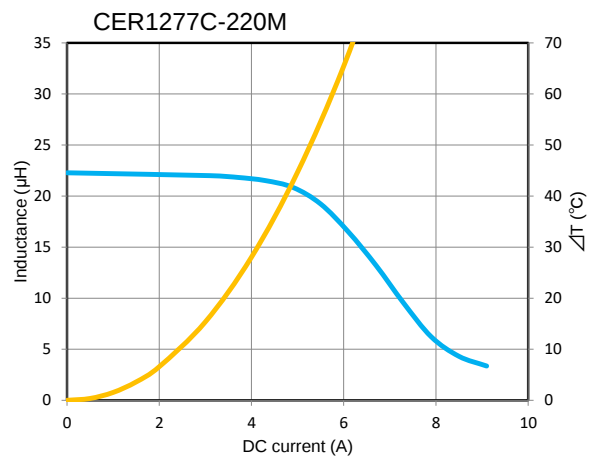
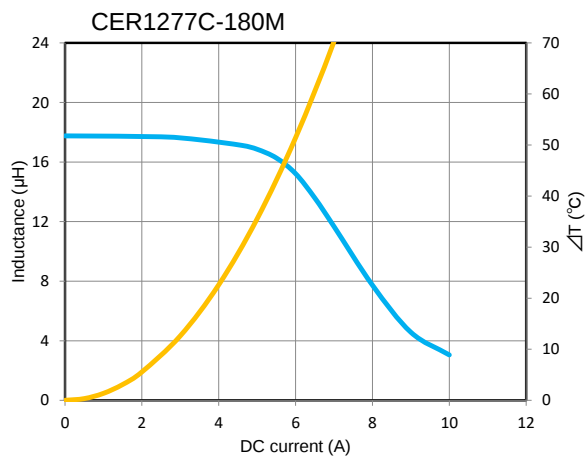
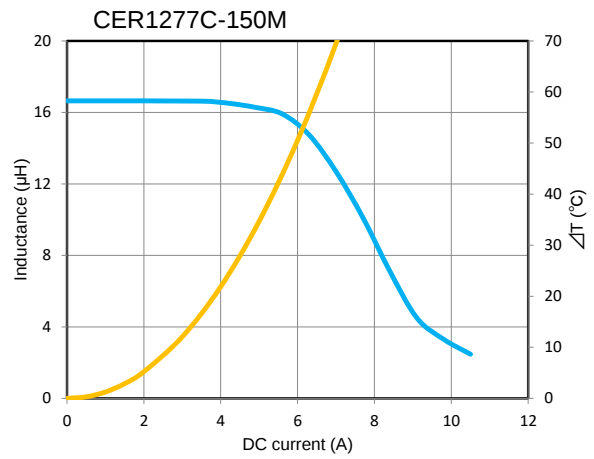
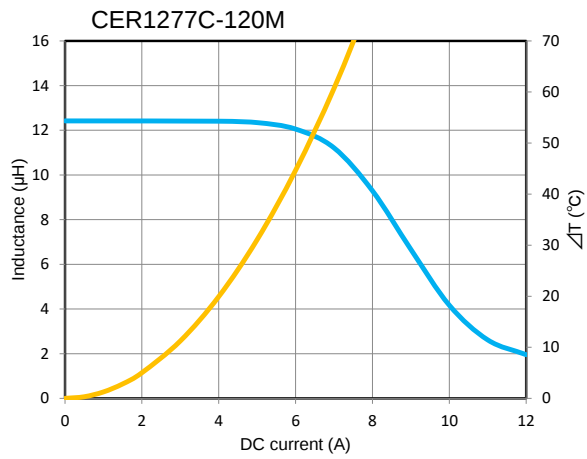
ΔT



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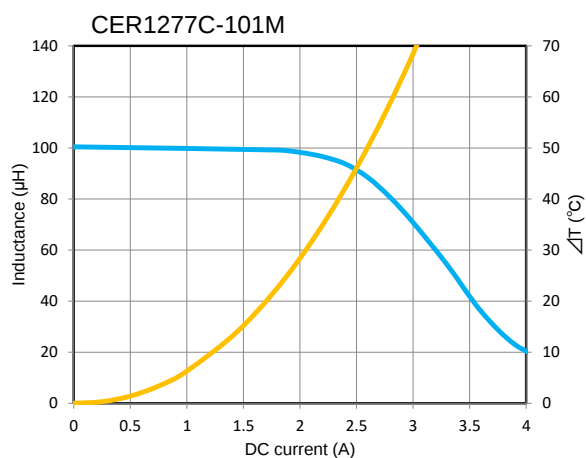
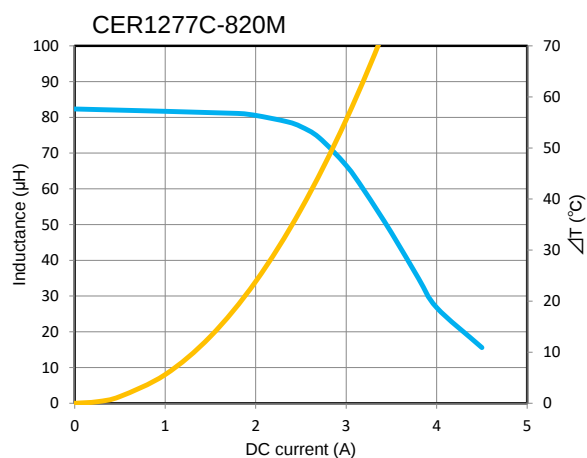
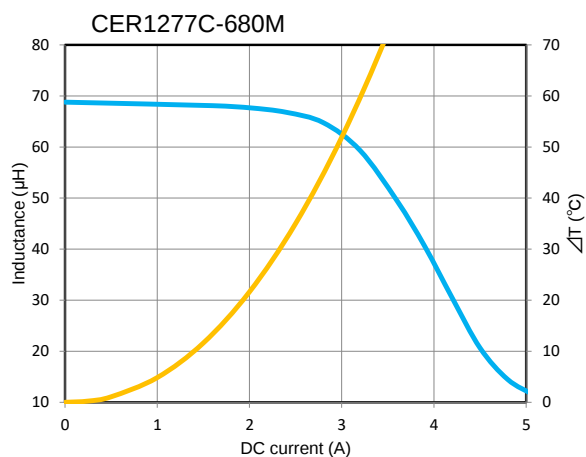
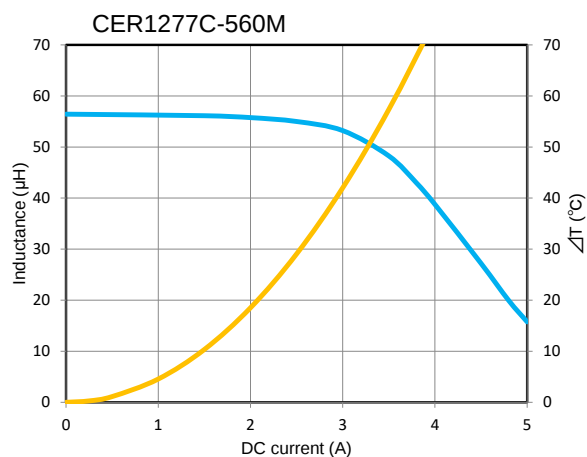
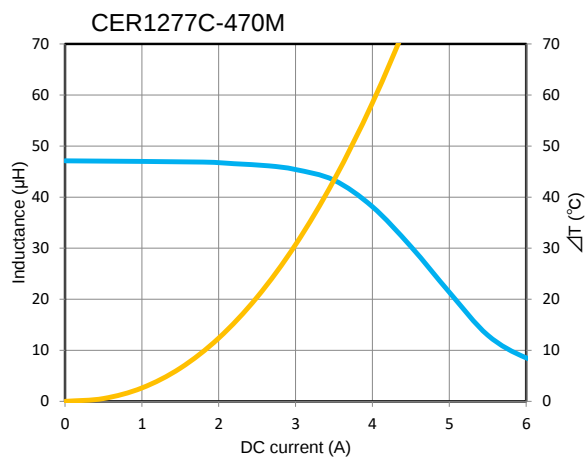
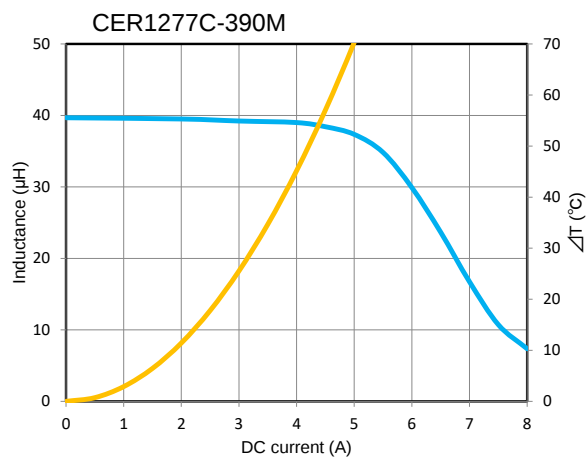
■ L(25°C) ■ ΔT



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DC bias characteristics vs Temperature Rise Graph

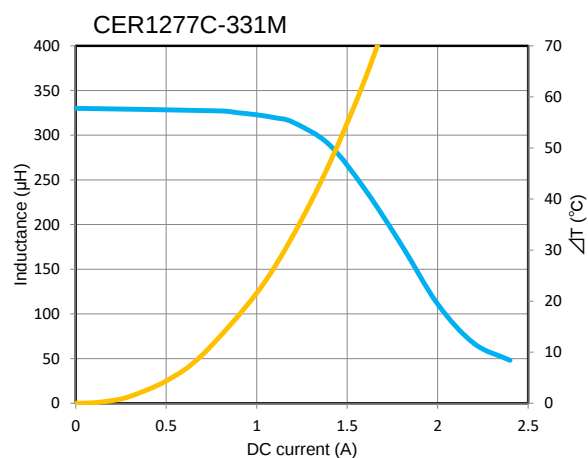
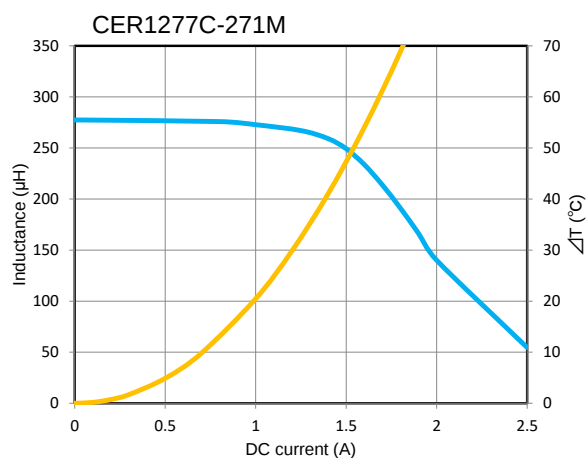
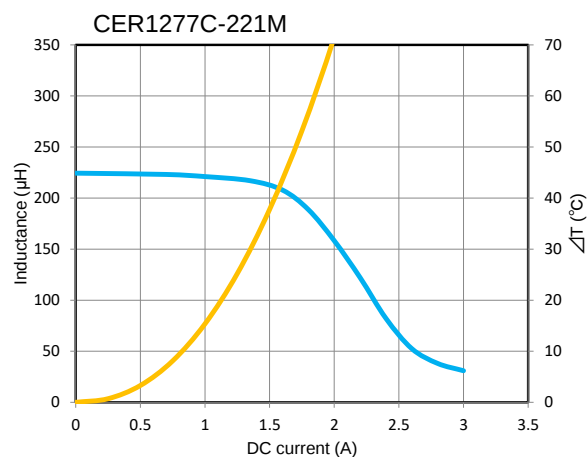
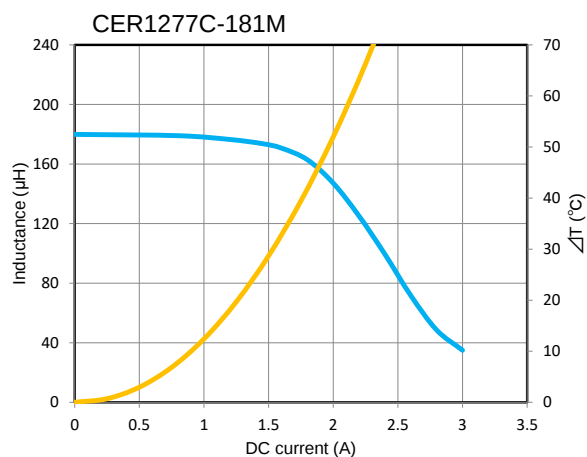
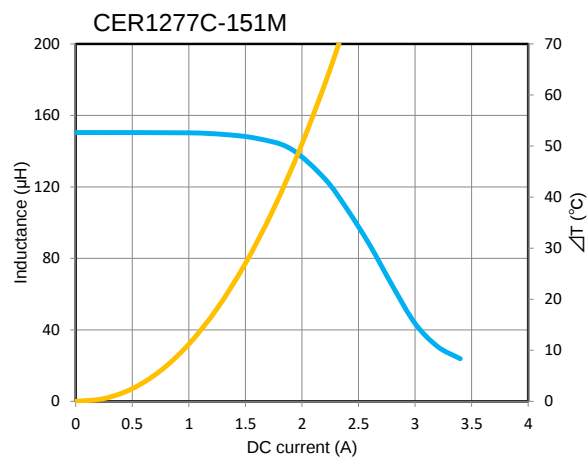
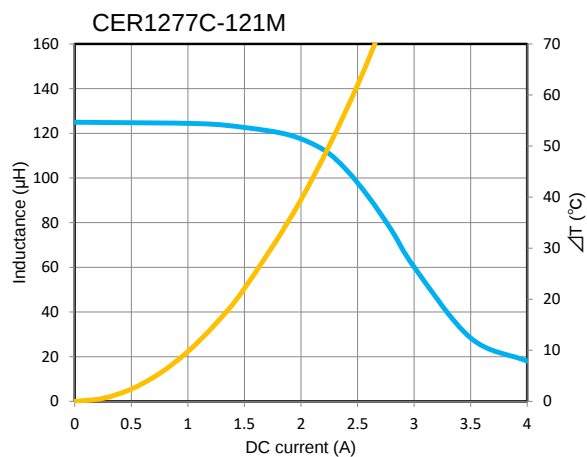
— L(25°C)
 — ΔT



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DC bias characteristics vs Temperature Rise Graph

■ $L(25^{\circ}\text{C})$
■ ΔT



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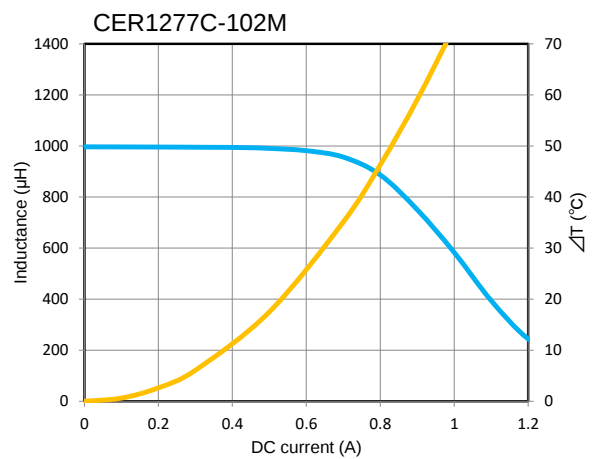
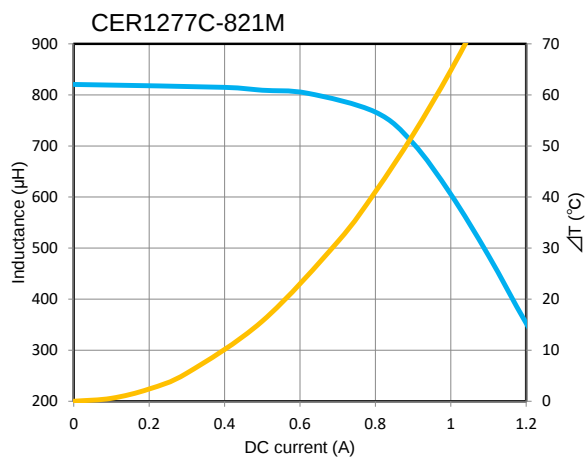
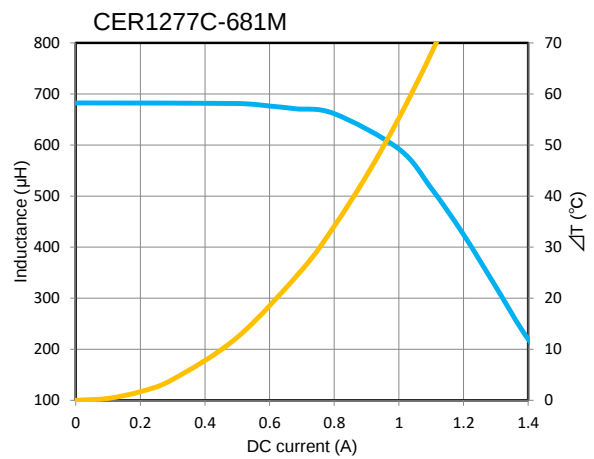
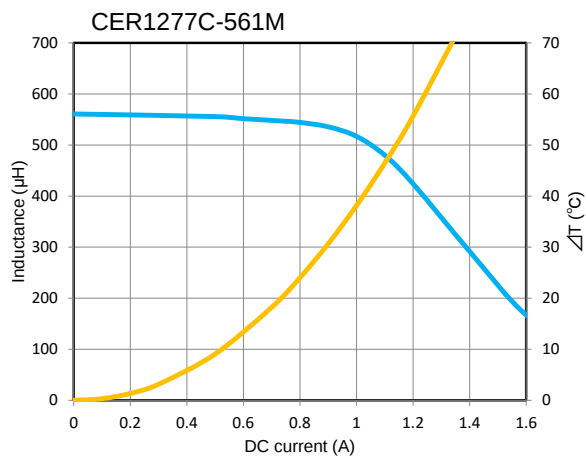
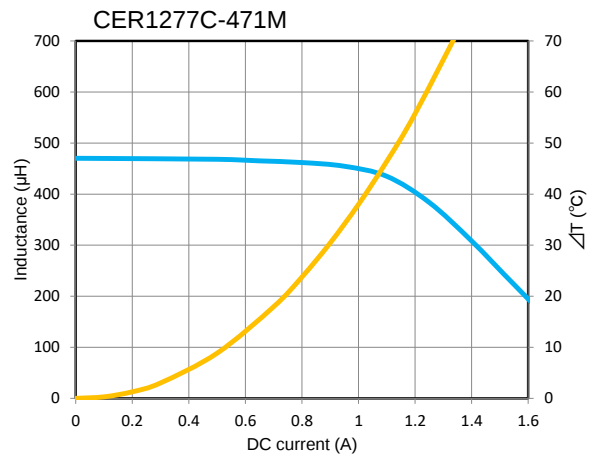
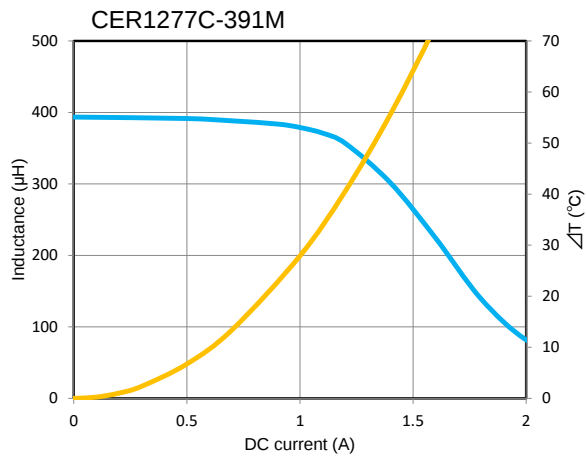
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L(25°C)



ΔT



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