

CER1065C

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 :

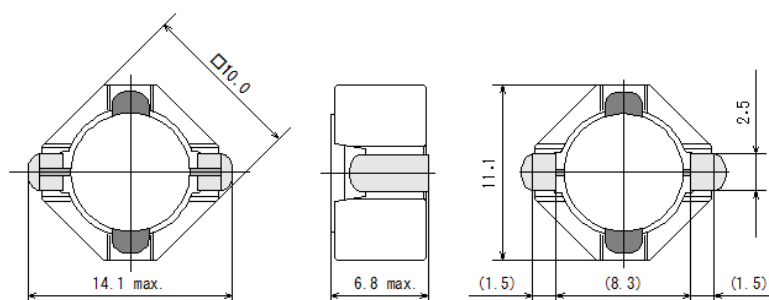


Weight : 2.4 g

■ Applications

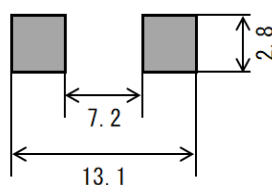
- Automotive/Car Audio,Car Navigation,ECU,LED Headlights
- Others/Power Supply,FA,Medical,Energy

■ Dimensions



(Unit : mm)

■ Recommended Land Pattern



(Unit : mm)



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

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■ 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
CER1065C-1R0N	1 $\pm 30\%$	0.00600	20.4	16.0	9.30	6.45
CER1065C-1R5N	1.5 $\pm 30\%$	0.00700	15.9	12.6	8.20	5.75
CER1065C-2R2N	2.2 $\pm 30\%$	0.00900	13.9	10.5	7.50	5.35
CER1065C-3R3N	3.3 $\pm 30\%$	0.0100	11.7	8.50	6.95	4.80
CER1065C-4R3N	4.3 $\pm 30\%$	0.0120	10.4	7.70	6.50	4.50
CER1065C-5R1N	5.1 $\pm 30\%$	0.0130	9.30	6.90	6.15	4.30
CER1065C-6R2N	6.2 $\pm 30\%$	0.0150	8.35	6.10	5.75	4.20
CER1065C-7R5N	7.5 $\pm 30\%$	0.0160	7.70	5.70	5.45	3.95
CER1065C-100M	10 $\pm 20\%$	0.0190	7.00	5.00	5.10	3.60
CER1065C-120M	12 $\pm 20\%$	0.0220	6.30	4.50	4.65	3.35
CER1065C-150M	15 $\pm 20\%$	0.0260	5.65	4.10	4.25	3.10
CER1065C-180M	18 $\pm 20\%$	0.0350	5.15	3.75	3.70	2.75
CER1065C-220M	22 $\pm 20\%$	0.0430	4.55	3.30	3.35	2.45
CER1065C-270M	27 $\pm 20\%$	0.0540	4.15	3.00	3.00	2.20
CER1065C-330M	33 $\pm 20\%$	0.0670	3.65	2.65	2.65	2.00
CER1065C-390M	39 $\pm 20\%$	0.0750	3.50	2.45	2.50	1.80
CER1065C-470M	47 $\pm 20\%$	0.0820	3.25	2.30	2.40	1.70
CER1065C-560M	56 $\pm 20\%$	0.100	2.83	2.05	2.15	1.55
CER1065C-680M	68 $\pm 20\%$	0.120	2.70	1.85	1.98	1.40
CER1065C-820M	82 $\pm 20\%$	0.150	2.30	1.70	1.75	1.25
CER1065C-101M	100 $\pm 20\%$	0.180	2.15	1.50	1.60	1.15
CER1065C-121M	120 $\pm 20\%$	0.210	2.05	1.35	1.50	1.10
CER1065C-151M	150 $\pm 20\%$	0.250	1.80	1.25	1.38	1.00
CER1065C-181M	180 $\pm 20\%$	0.300	1.60	1.10	1.25	0.900
CER1065C-221M	220 $\pm 20\%$	0.370	1.43	1.00	1.10	0.800
CER1065C-271M	270 $\pm 20\%$	0.450	1.30	0.950	1.00	0.700
CER1065C-331M	330 $\pm 20\%$	0.560	1.18	0.830	0.910	0.650
CER1065C-391M	390 $\pm 20\%$	0.660	1.08	0.770	0.840	0.600
CER1065C-471M	470 $\pm 20\%$	0.790	0.970	0.700	0.770	0.500
CER1065C-561M	560 $\pm 20\%$	0.960	0.930	0.670	0.690	0.470
CER1065C-681M	680 $\pm 20\%$	1.18	0.830	0.610	0.630	0.450
CER1065C-821M	820 $\pm 20\%$	1.45	0.770	0.560	0.560	0.410
CER1065C-102M	1000 $\pm 20\%$	1.61	0.700	0.500	0.530	0.390

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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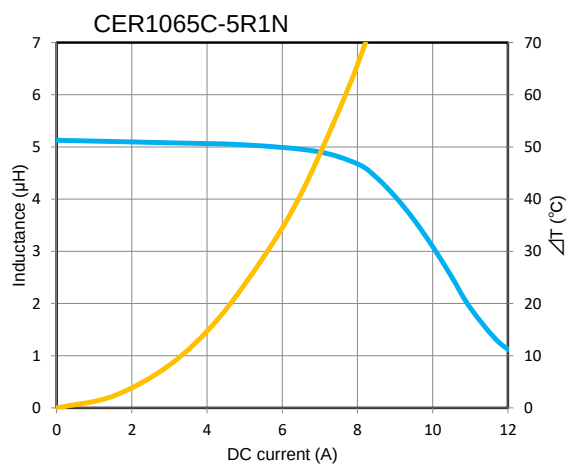
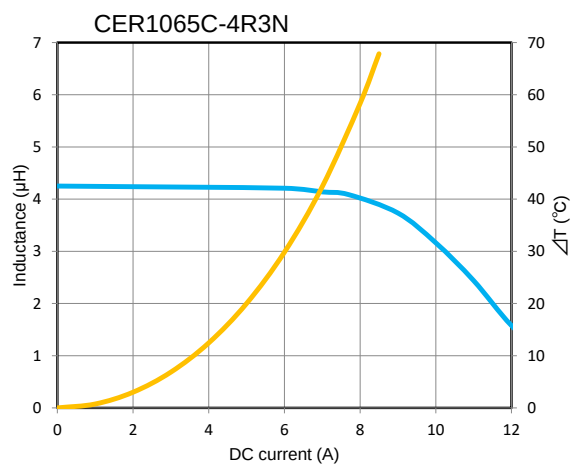
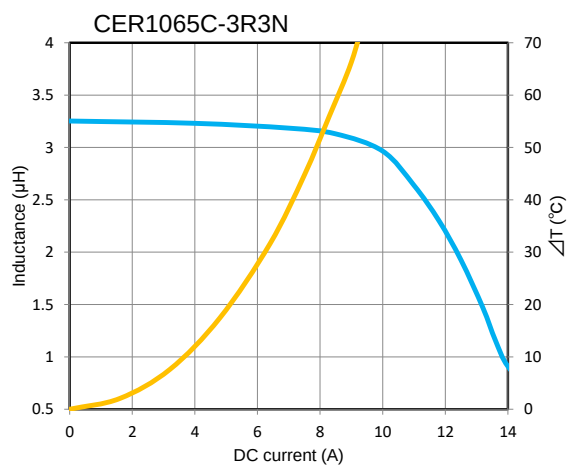
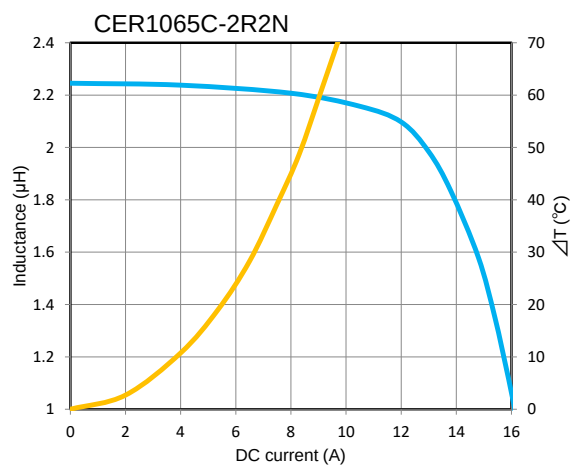
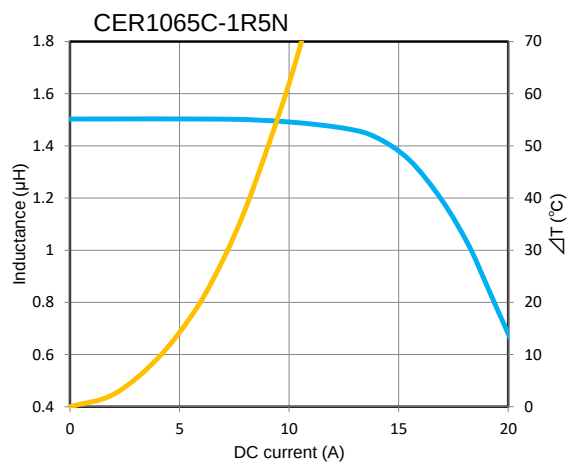
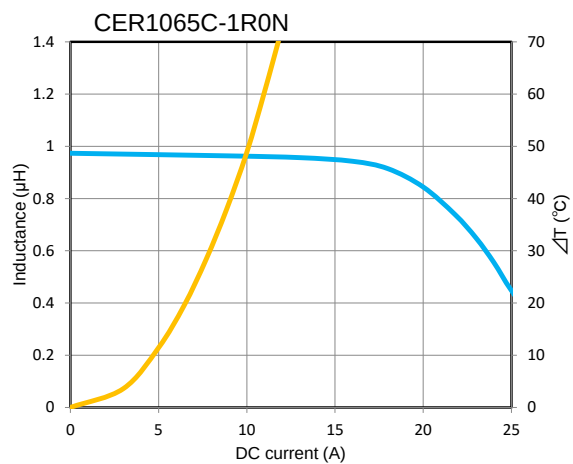
DC bias characteristics vs Temperature Rise Graph



L(25°C)



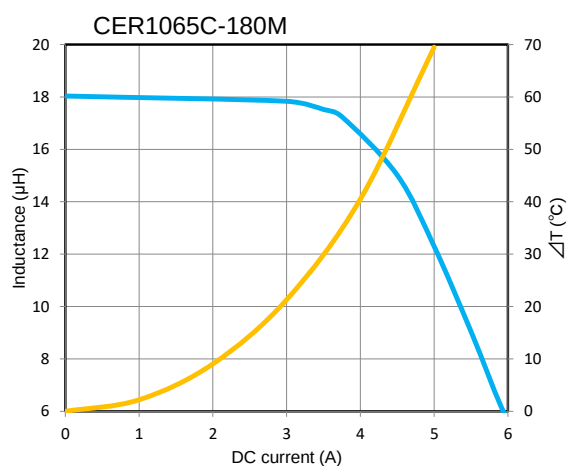
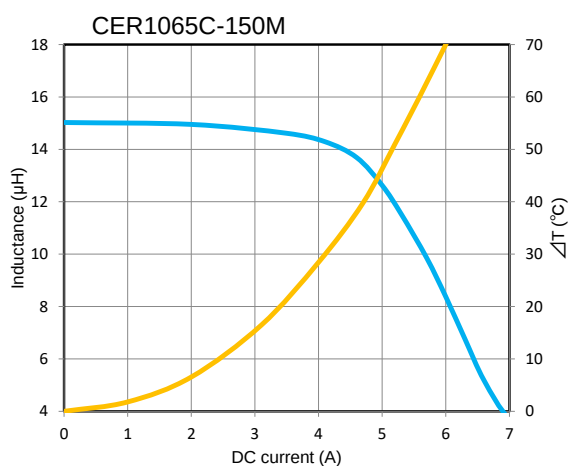
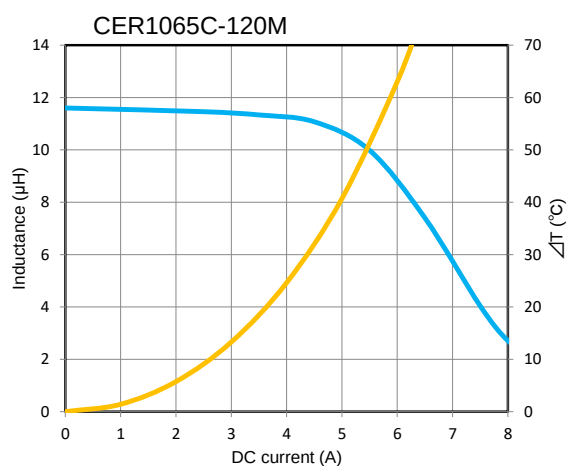
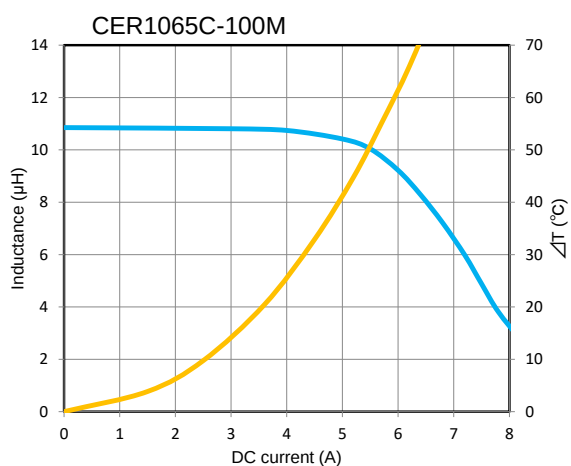
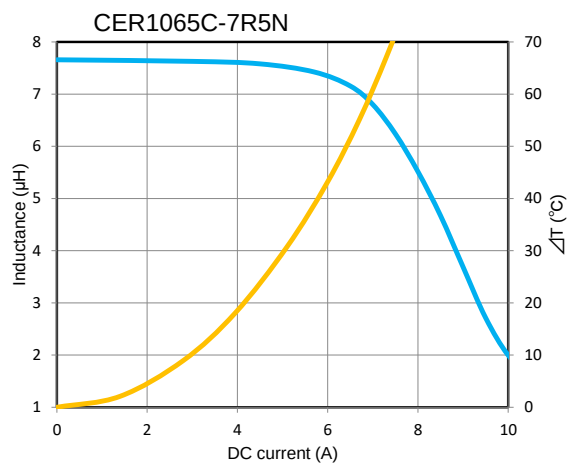
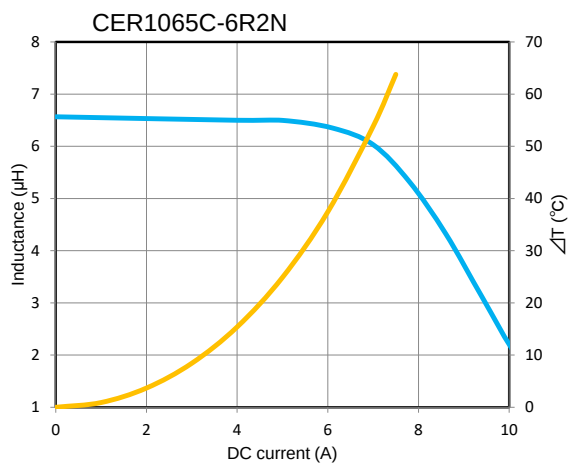
ΔT



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DC bias characteristics vs Temperature Rise Graph

■ $L(25^{\circ}\text{C})$ ■ ΔT



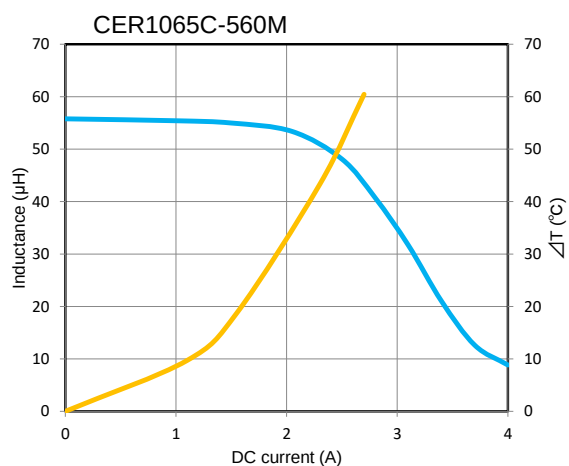
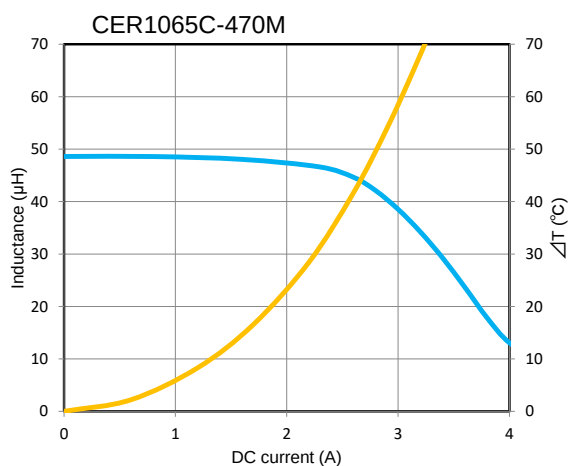
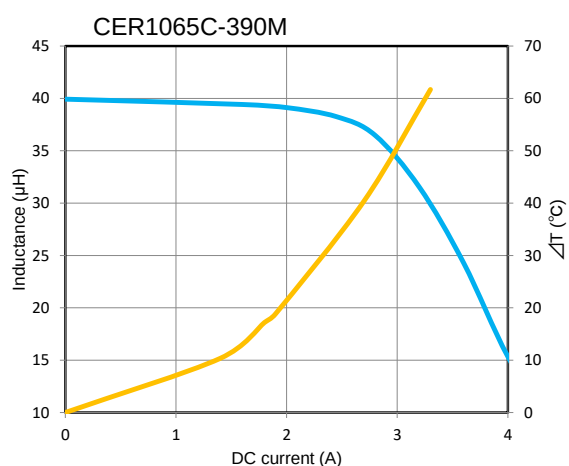
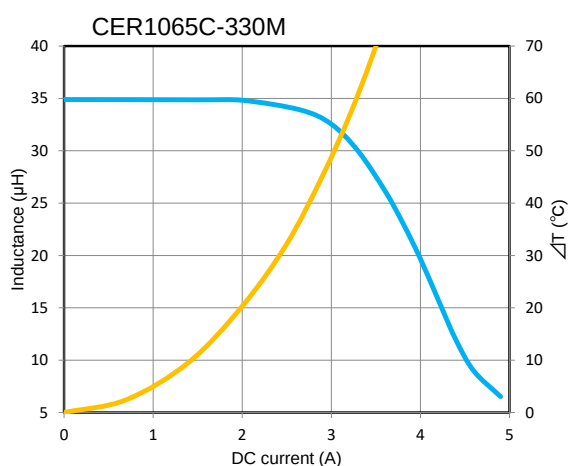
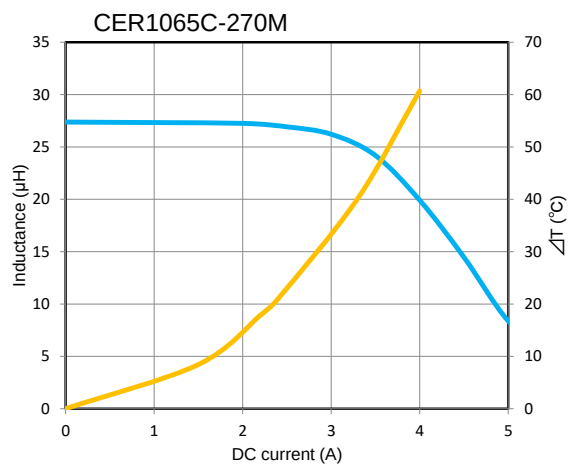
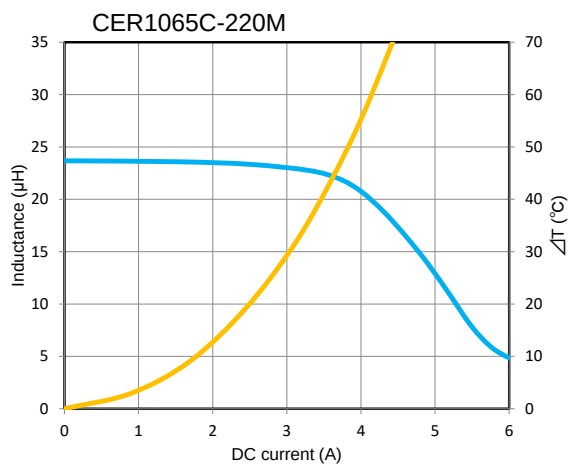
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L(25°C)



ΔT



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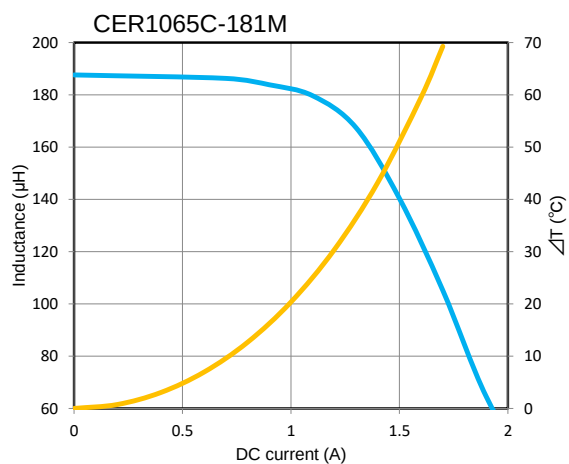
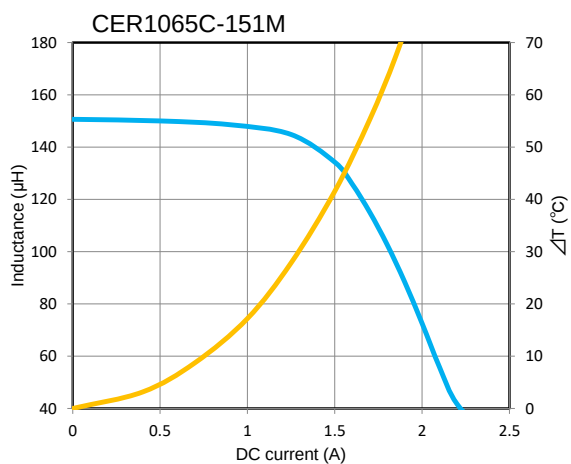
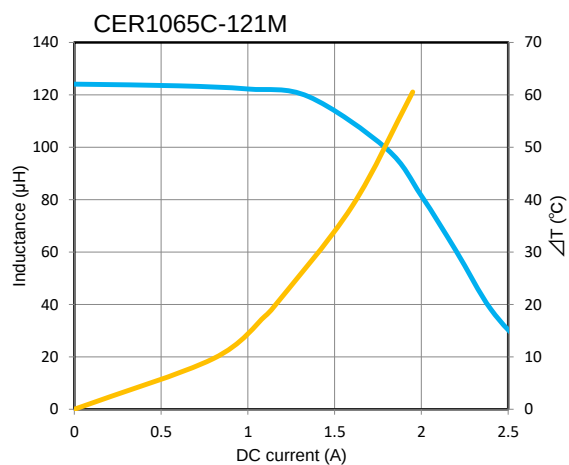
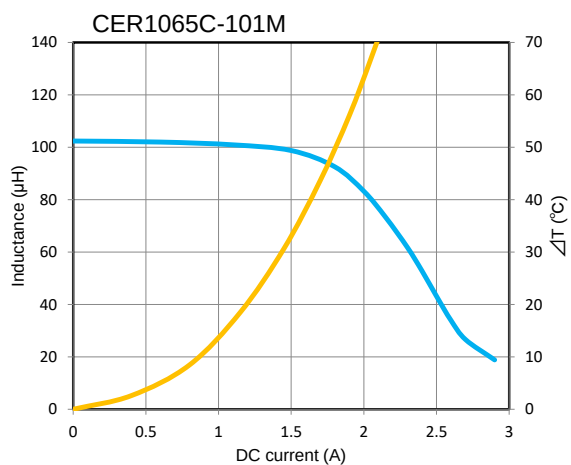
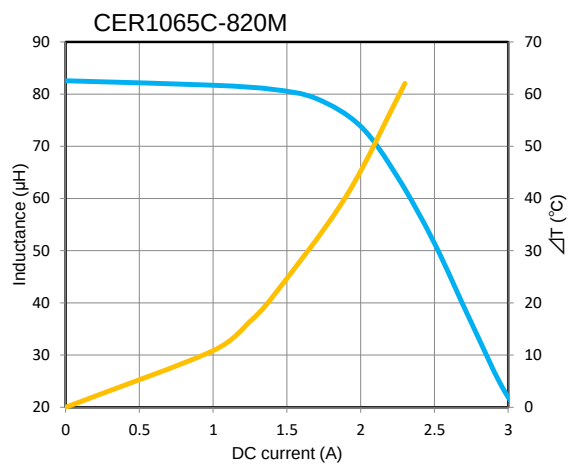
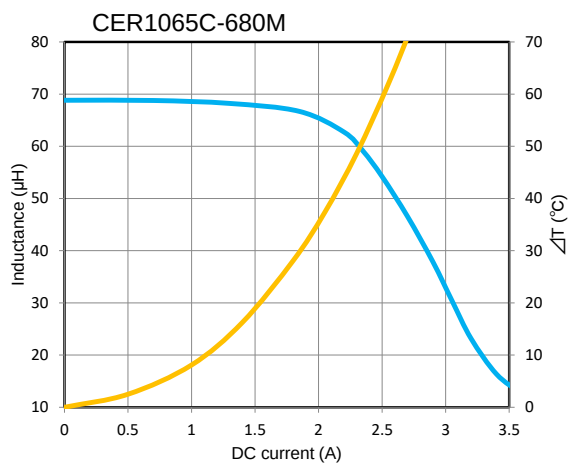
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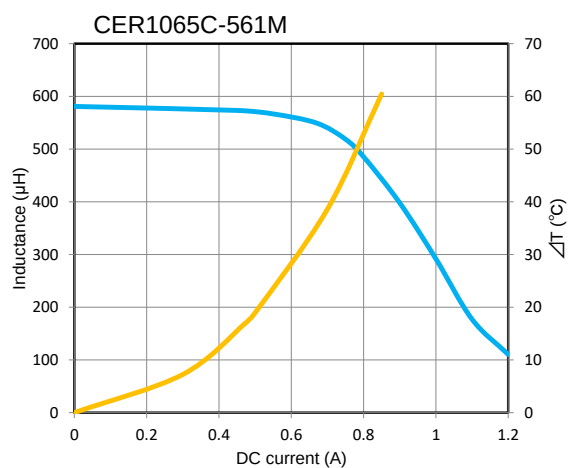
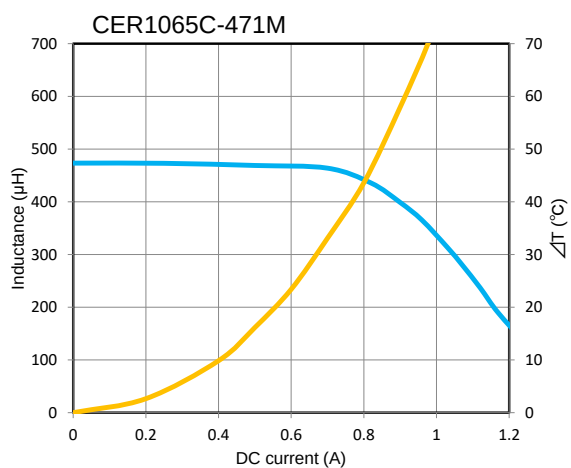
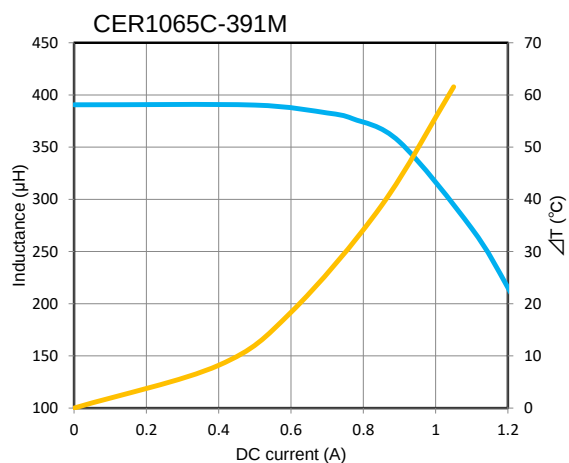
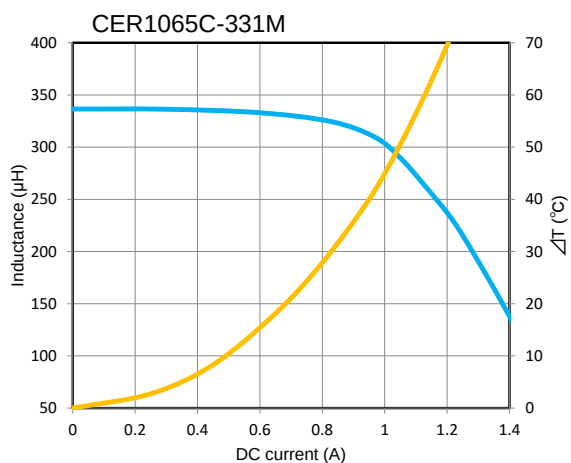
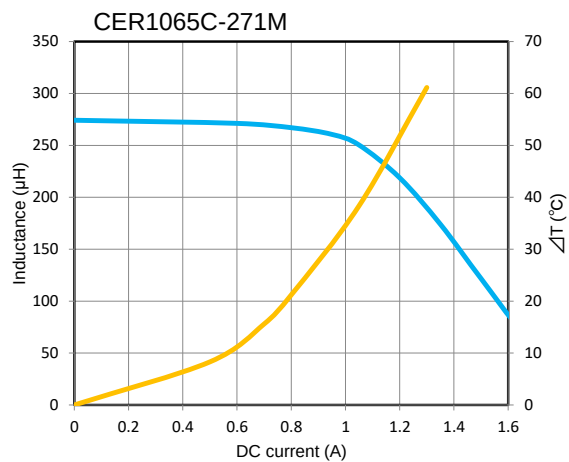
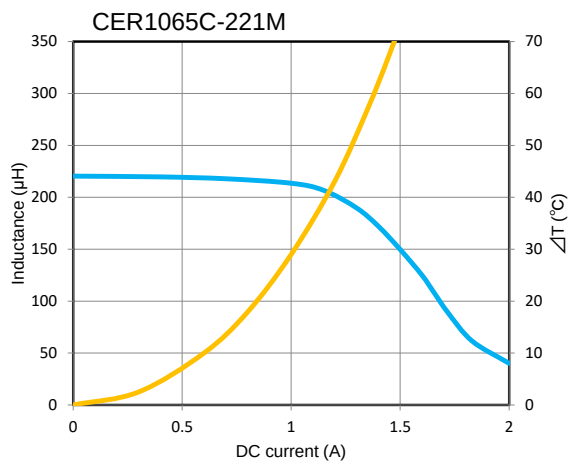
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