

CER8065C

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 :

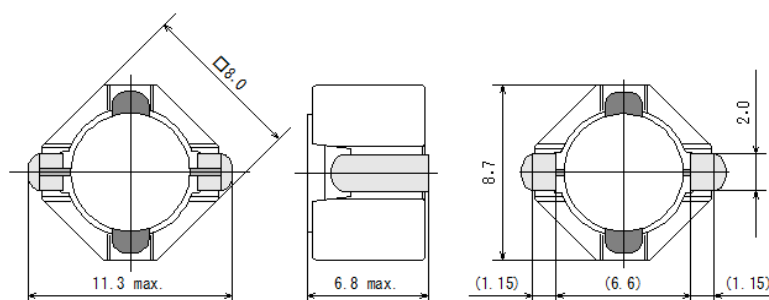


Weight : 1.4 g

■ Applications

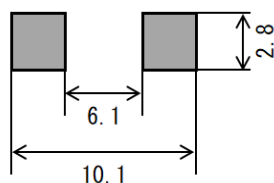
- Automotive/Car Audio,Car Navigation,ECU,LED Headlights
- Others/Power Supply,FA,Medical,Energy

■ Dimensions



(Unit : mm)

■ Recommended Land Pattern



(Unit : mm)



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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
CER8065C-1R2N	1.2 $\pm 30\%$	0.00700	15.4	11.6	7.45	5.70
CER8065C-1R8N	1.8 $\pm 30\%$	0.00800	12.3	9.30	6.80	5.20
CER8065C-2R4N	2.4 $\pm 30\%$	0.00900	10.2	7.80	6.35	4.70
CER8065C-3R0N	3 $\pm 30\%$	0.0100	9.35	7.10	5.90	4.45
CER8065C-3R9N	3.9 $\pm 30\%$	0.0130	7.85	5.90	5.30	4.00
CER8065C-5R1N	5.1 $\pm 30\%$	0.0140	7.00	5.15	5.00	3.80
CER8065C-6R2N	6.2 $\pm 30\%$	0.0170	6.45	4.80	4.60	3.55
CER8065C-7R5N	7.5 $\pm 30\%$	0.0190	6.25	4.60	4.35	3.25
CER8065C-8R2N	8.2 $\pm 30\%$	0.0210	5.55	4.10	4.20	3.10
CER8065C-100M	10 $\pm 20\%$	0.0250	5.10	3.90	3.80	2.80
CER8065C-120M	12 $\pm 20\%$	0.0270	4.85	3.60	3.65	2.70
CER8065C-150M	15 $\pm 20\%$	0.0340	4.30	3.10	3.25	2.40
CER8065C-180M	18 $\pm 20\%$	0.0440	3.85	2.80	2.85	2.10
CER8065C-220M	22 $\pm 20\%$	0.0510	3.65	2.60	2.65	1.95
CER8065C-270M	27 $\pm 20\%$	0.0700	3.10	2.25	2.25	1.65
CER8065C-330M	33 $\pm 20\%$	0.0850	2.90	2.05	2.05	1.50
CER8065C-390M	39 $\pm 20\%$	0.100	2.60	1.95	1.85	1.35
CER8065C-470M	47 $\pm 20\%$	0.120	2.30	1.70	1.70	1.25
CER8065C-560M	56 $\pm 20\%$	0.150	2.20	1.55	1.55	1.10
CER8065C-680M	68 $\pm 20\%$	0.180	2.00	1.45	1.40	1.05
CER8065C-820M	82 $\pm 20\%$	0.190	1.80	1.30	1.35	0.980
CER8065C-101M	100 $\pm 20\%$	0.240	1.65	1.20	1.20	0.890
CER8065C-121M	120 $\pm 20\%$	0.280	1.55	1.10	1.10	0.810
CER8065C-151M	150 $\pm 20\%$	0.350	1.35	1.00	1.00	0.720
CER8065C-181M	180 $\pm 20\%$	0.420	1.25	0.930	0.930	0.660
CER8065C-221M	220 $\pm 20\%$	0.510	1.10	0.820	0.840	0.600
CER8065C-271M	270 $\pm 20\%$	0.610	1.00	0.750	0.760	0.540
CER8065C-331M	330 $\pm 20\%$	0.770	0.930	0.680	0.680	0.480
CER8065C-391M	390 $\pm 20\%$	0.930	0.850	0.630	0.620	0.440
CER8065C-471M	470 $\pm 20\%$	1.13	0.780	0.570	0.560	0.400
CER8065C-561M	560 $\pm 20\%$	1.24	0.710	0.530	0.540	0.380
CER8065C-681M	680 $\pm 20\%$	1.55	0.640	0.480	0.480	0.340
CER8065C-821M	820 $\pm 20\%$	1.95	0.580	0.430	0.430	0.300
CER8065C-102M	1000 $\pm 20\%$	2.17	0.530	0.380	0.410	0.280

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



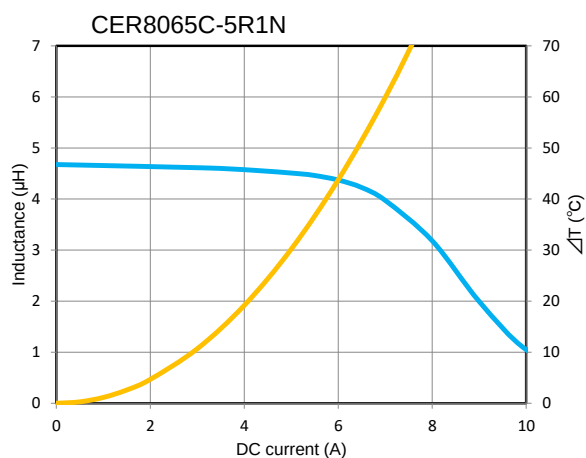
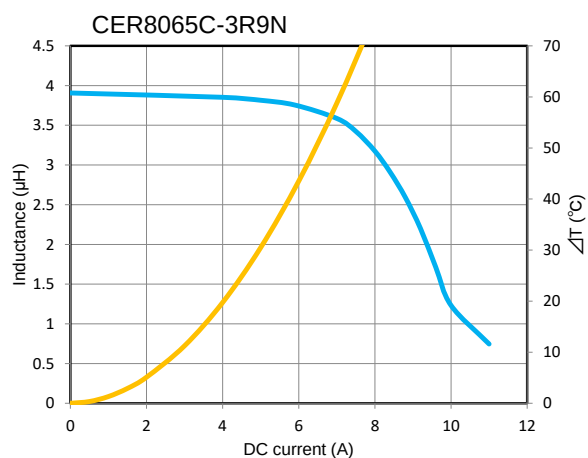
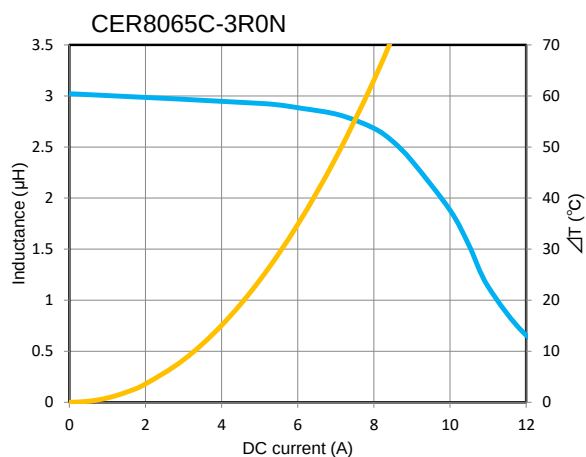
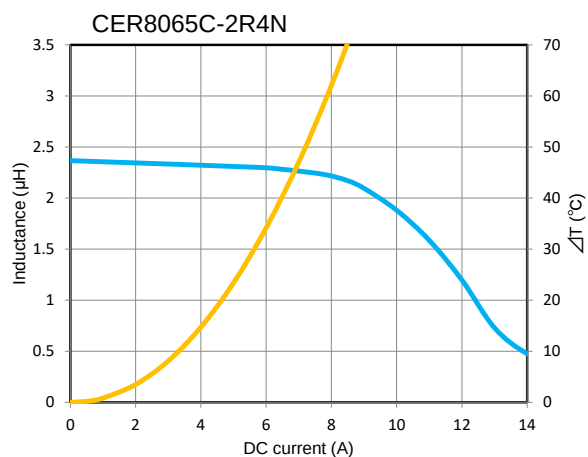
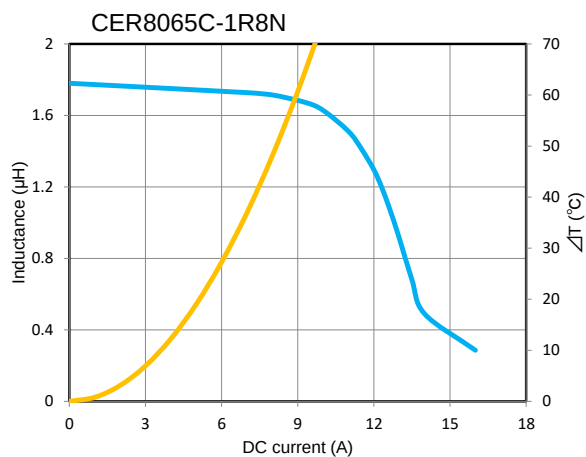
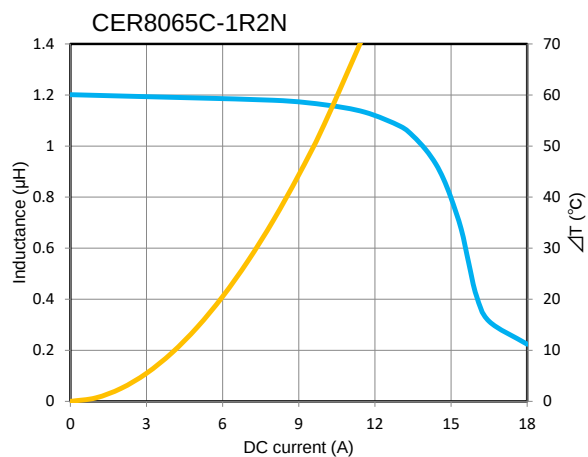
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DC bias characteristics vs Temperature Rise Graph

■ L(25°C) ■ ΔT



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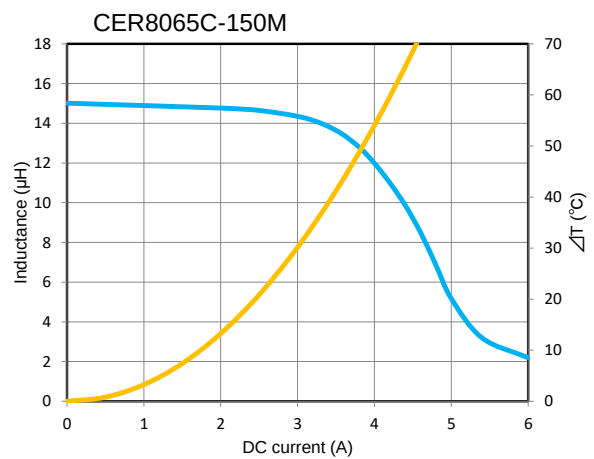
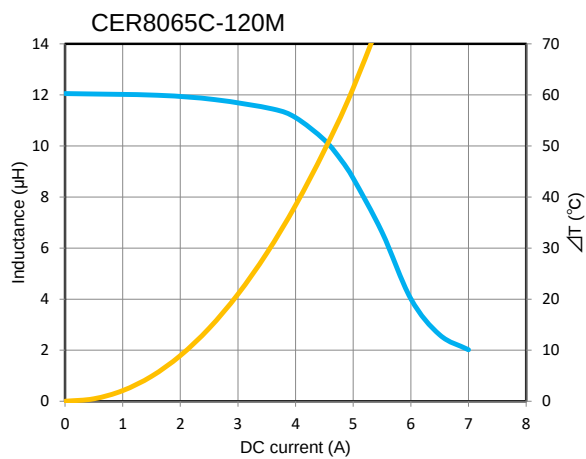
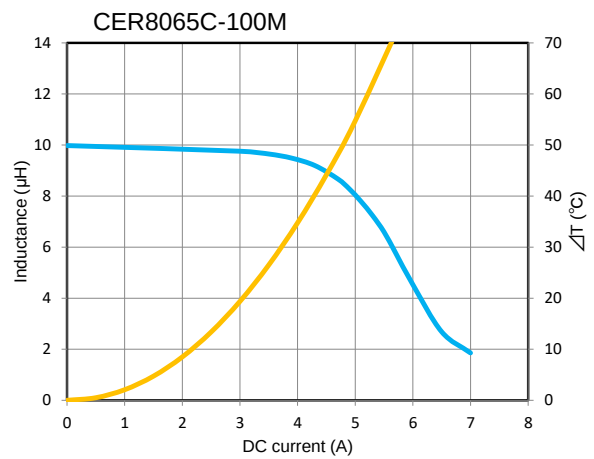
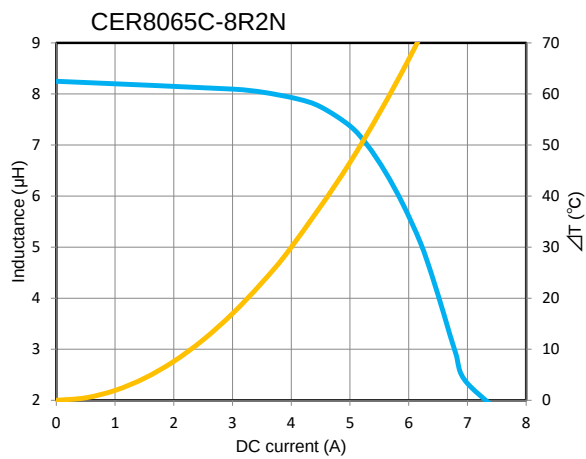
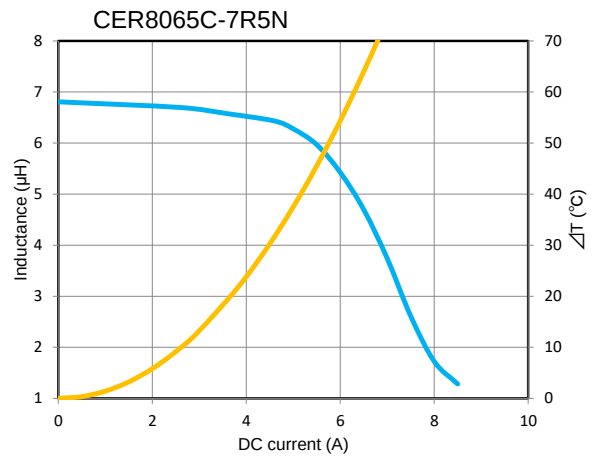
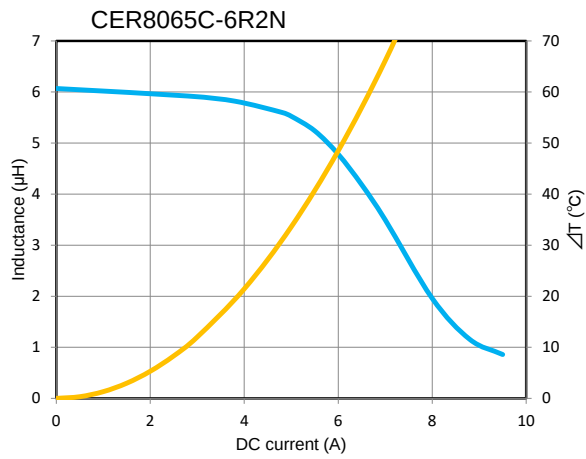
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L(25°C)



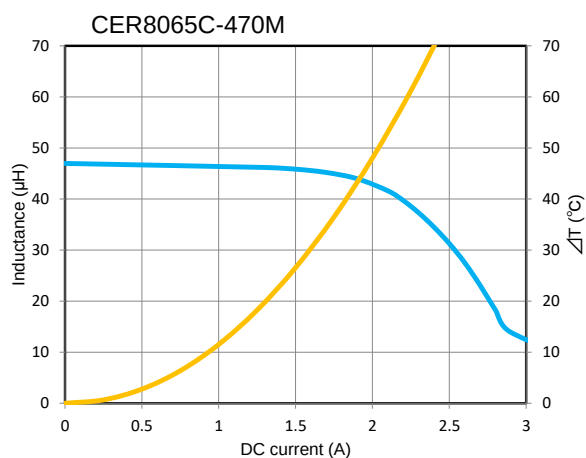
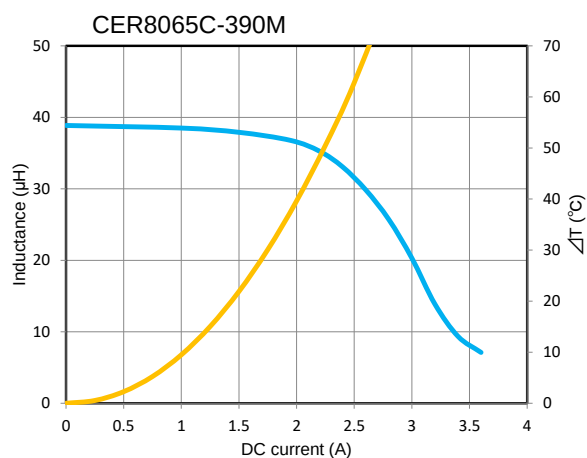
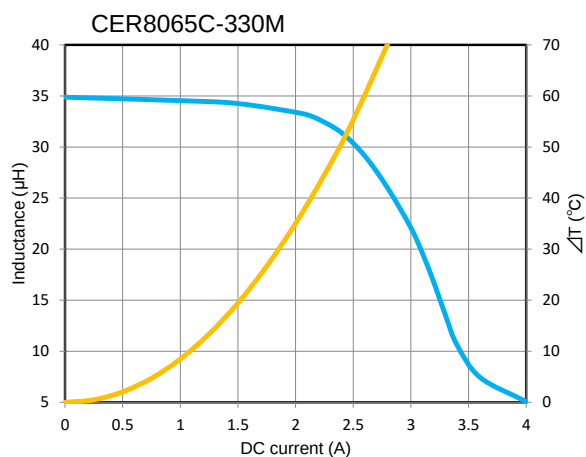
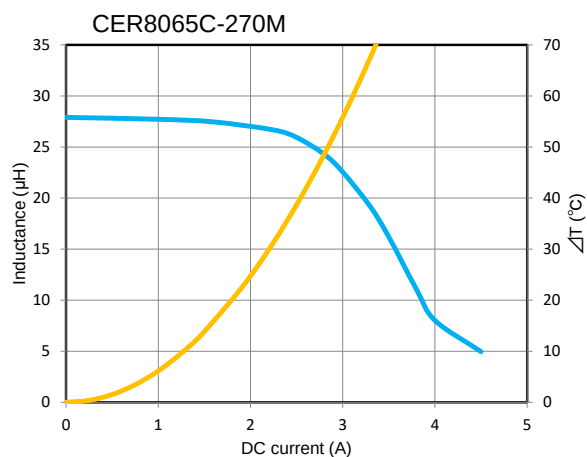
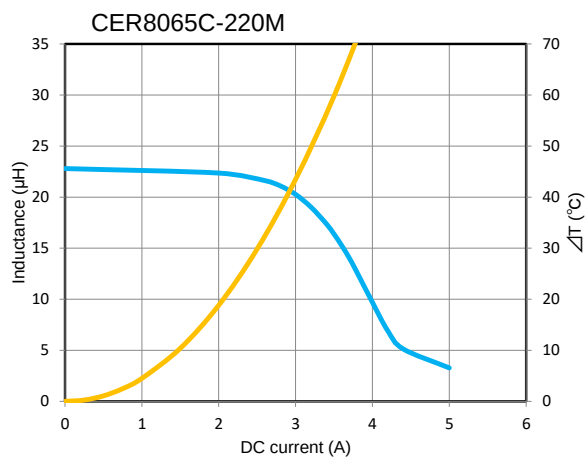
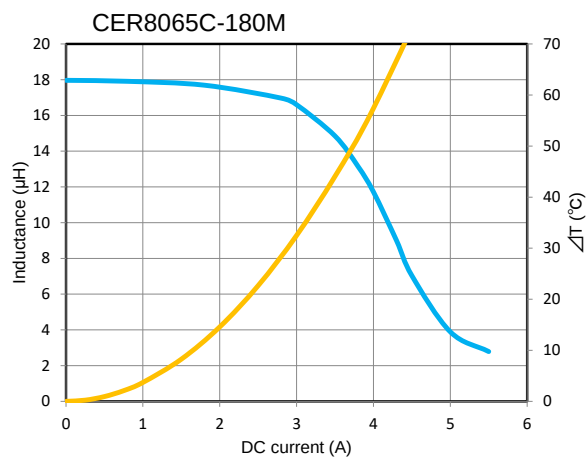
ΔT



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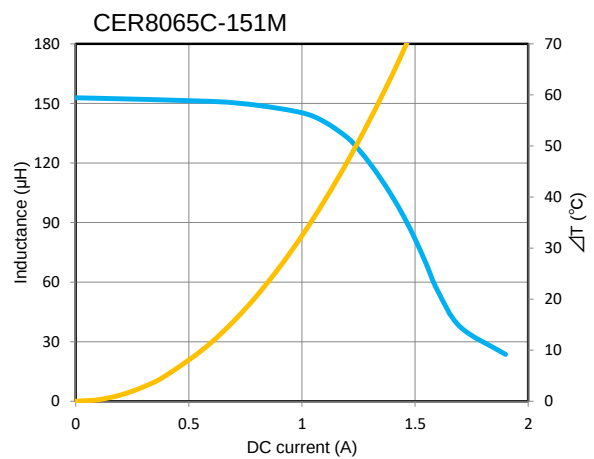
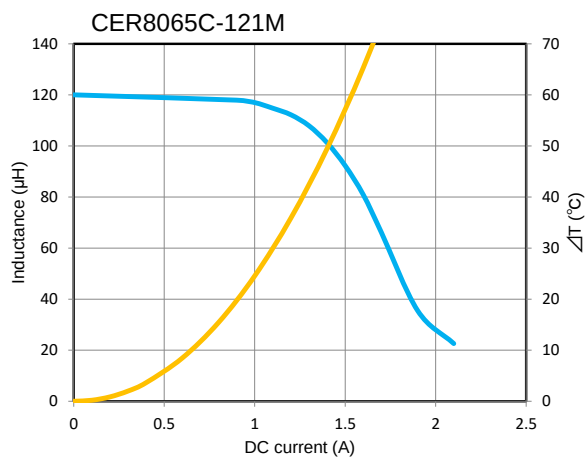
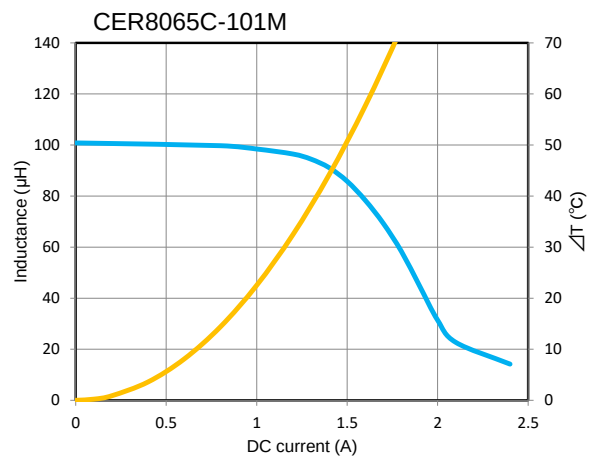
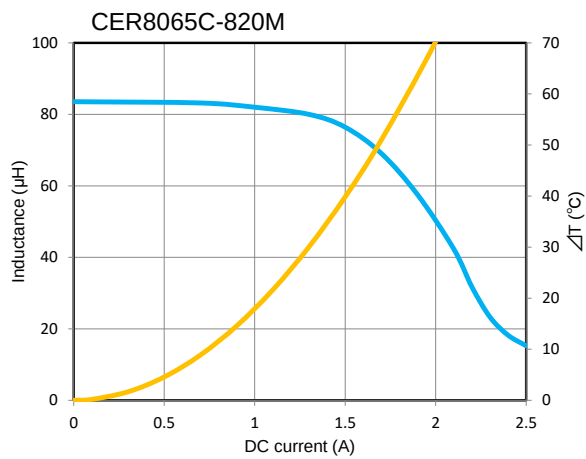
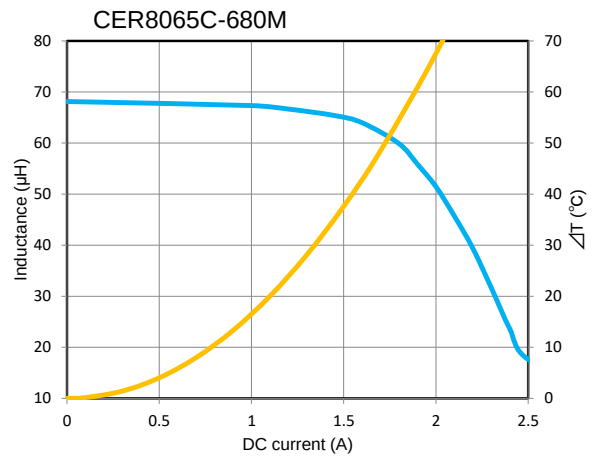
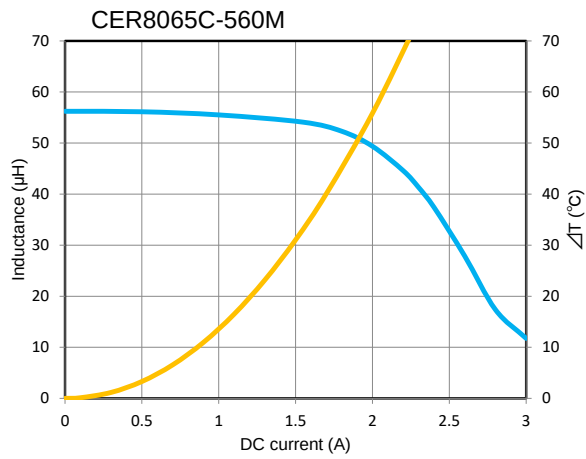
DC bias characteristics vs Temperature Rise Graph

■ $L(25^{\circ}\text{C})$
■ ΔT



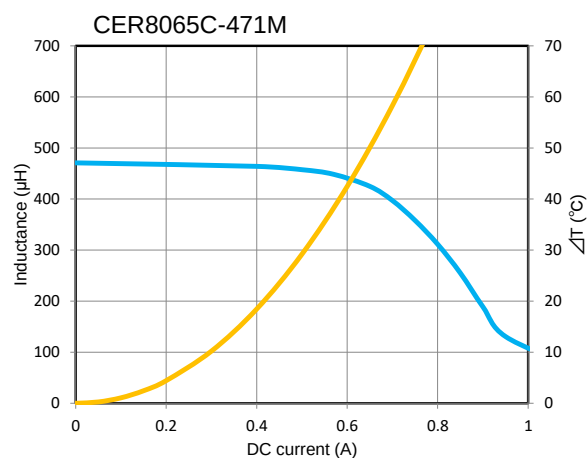
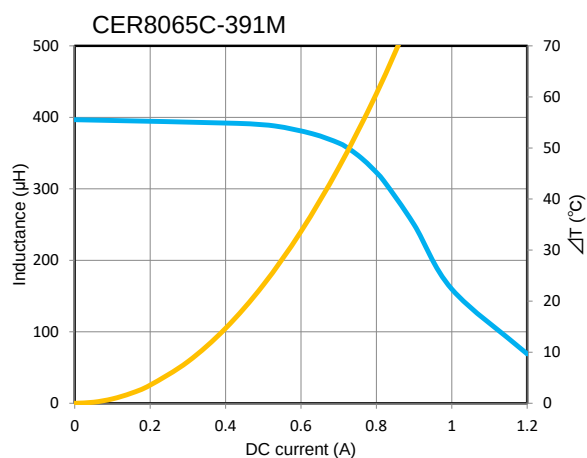
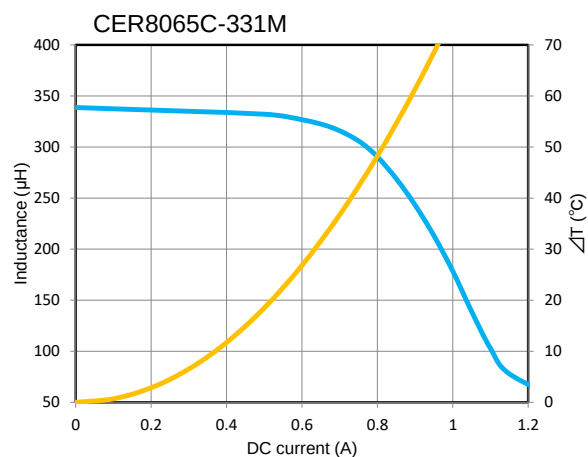
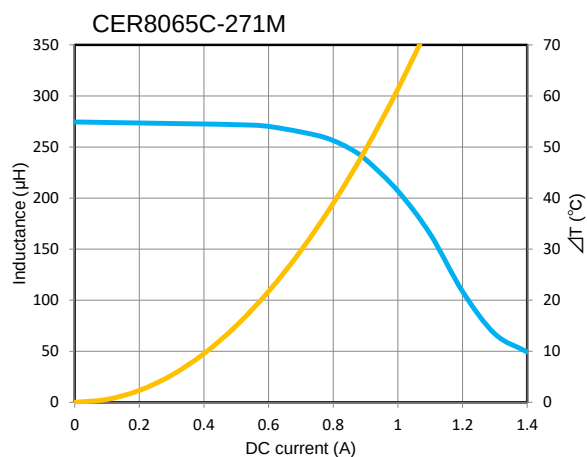
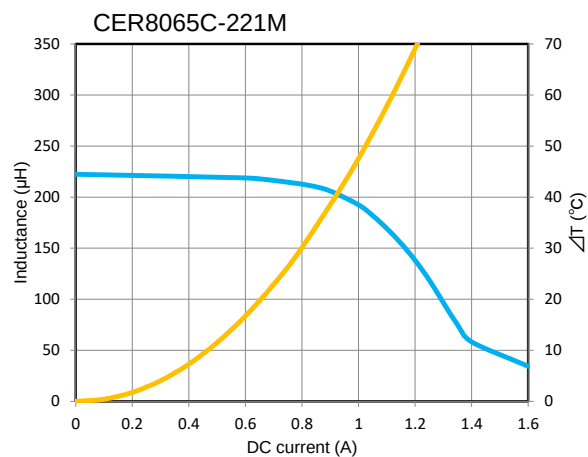
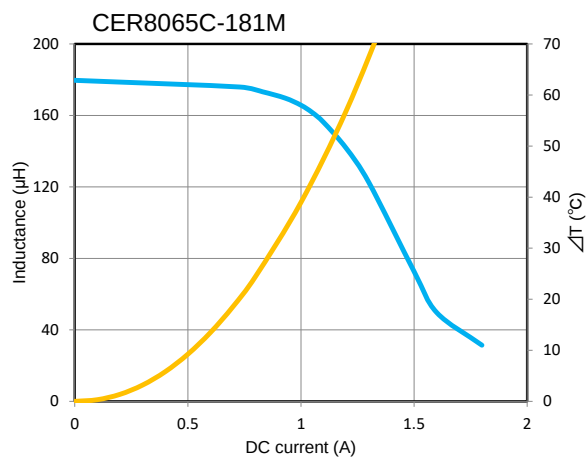
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