

CER6027C

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 :

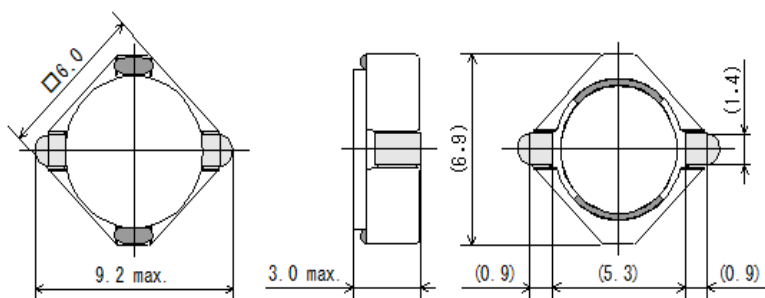


Weight : 0.36 g

■ Applications

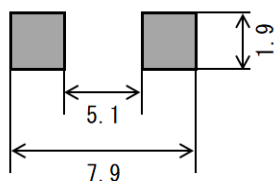
- Automotive/ECU,LED Headlights,Car Audio,Car Navigation
- Others/Medical,Energy,Power Supply,FA

■ 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
CER6027C-1R2N	1.2 $\pm 30\%$	0.0098	5.54	3.60	6.70	5.20
CER6027C-1R5N	1.5 $\pm 30\%$	0.0130	4.69	3.40	6.00	4.60
CER6027C-2R2N	2.2 $\pm 30\%$	0.0170	4.36	2.70	5.00	4.00
CER6027C-3R3N	3.3 $\pm 30\%$	0.0220	3.95	2.60	4.40	3.50
CER6027C-3R9N	3.9 $\pm 30\%$	0.0250	3.23	2.20	4.10	3.30
CER6027C-4R7N	4.7 $\pm 30\%$	0.0310	2.94	2.10	3.60	2.90
CER6027C-5R6N	5.6 $\pm 30\%$	0.0350	2.57	1.90	3.40	2.80
CER6027C-6R8N	6.8 $\pm 30\%$	0.0430	2.41	1.70	3.00	2.40
CER6027C-8R2N	8.2 $\pm 30\%$	0.0480	2.35	1.60	2.80	2.30
CER6027C-100M	10 $\pm 20\%$	0.0580	2.03	1.40	2.50	2.00
CER6027C-120M	12 $\pm 20\%$	0.0690	1.73	1.30	2.30	1.80
CER6027C-150M	15 $\pm 20\%$	0.0860	1.65	1.20	2.00	1.60
CER6027C-180M	18 $\pm 20\%$	0.0990	1.56	1.10	1.90	1.50
CER6027C-220M	22 $\pm 20\%$	0.120	1.41	1.00	1.70	1.30
CER6027C-270M	27 $\pm 20\%$	0.140	1.20	0.900	1.50	1.20
CER6027C-330M	33 $\pm 20\%$	0.200	1.08	0.800	1.30	1.05
CER6027C-390M	39 $\pm 20\%$	0.210	1.00	0.750	1.25	0.980
CER6027C-470M	47 $\pm 20\%$	0.290	0.930	0.670	1.05	0.870
CER6027C-560M	56 $\pm 20\%$	0.320	0.850	0.630	0.990	0.830
CER6027C-680M	68 $\pm 20\%$	0.390	0.800	0.570	0.880	0.710
CER6027C-820M	82 $\pm 20\%$	0.450	0.660	0.530	0.820	0.660
CER6027C-101M	100 $\pm 20\%$	0.560	0.650	0.480	0.730	0.600
CER6027C-121M	120 $\pm 20\%$	0.620	0.600	0.450	0.690	0.560
CER6027C-151M	150 $\pm 20\%$	0.900	0.540	0.380	0.560	0.470
CER6027C-181M	180 $\pm 20\%$	1.00	0.480	0.360	0.530	0.430
CER6027C-221M	220 $\pm 20\%$	1.55	0.410	0.280	0.420	0.360
CER6027C-271M	270 $\pm 20\%$	1.75	0.370	0.260	0.390	0.330

Inductance Measuring Condition:100kHz,1V(<10 μ H)、1kHz,1V($\geq 10\mu$ H)

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



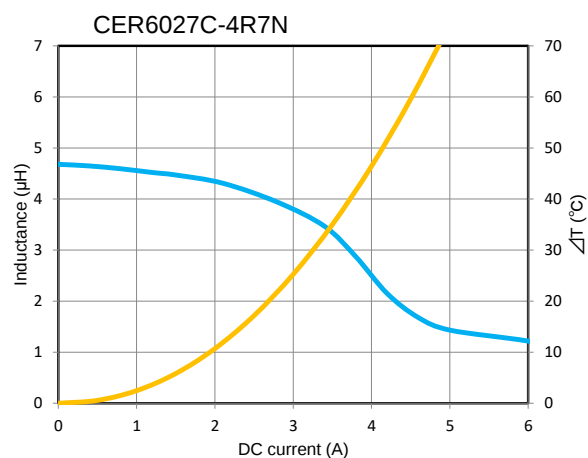
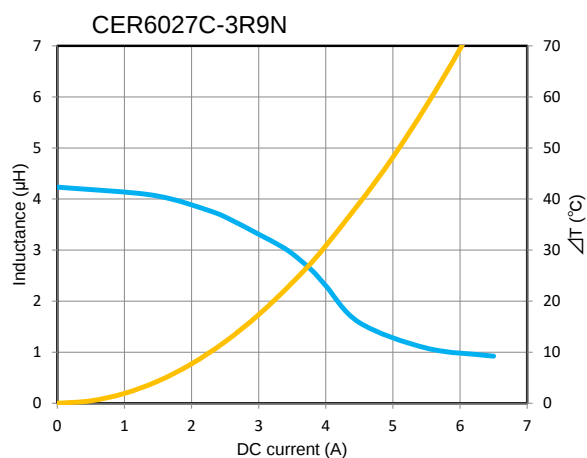
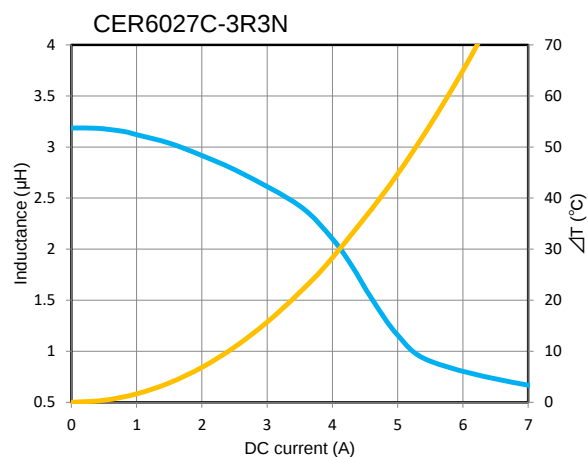
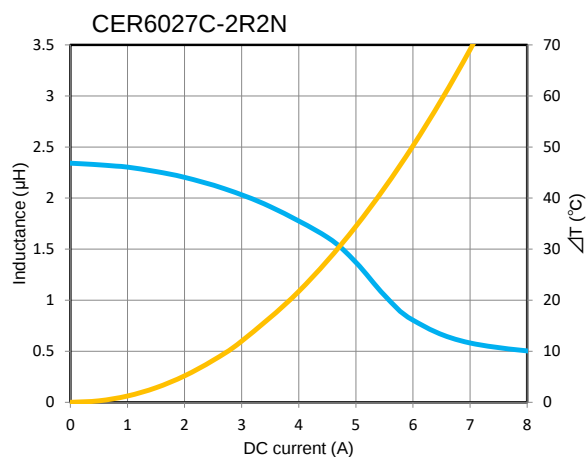
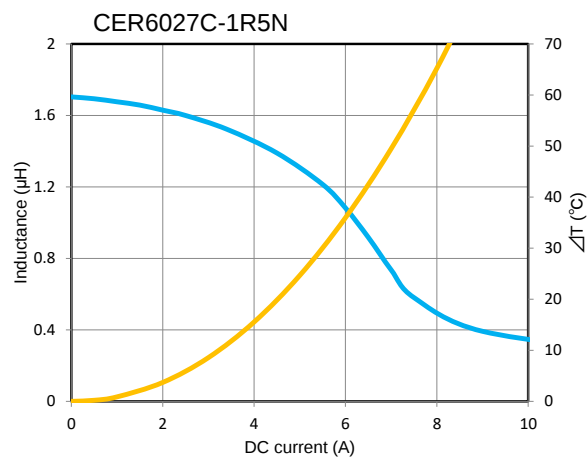
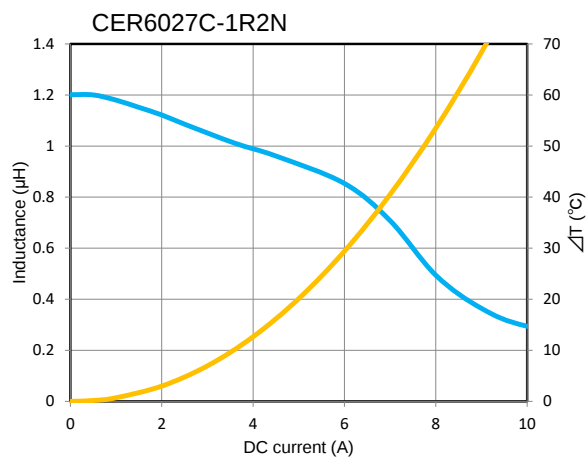
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DC bias characteristics vs Temperature Rise Graph

■ L(25°C) ■ ΔT



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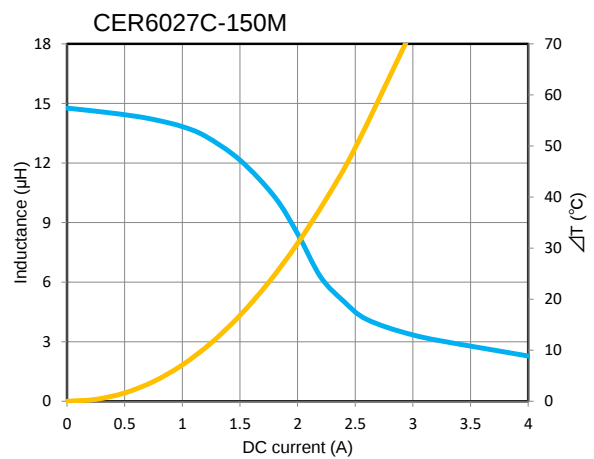
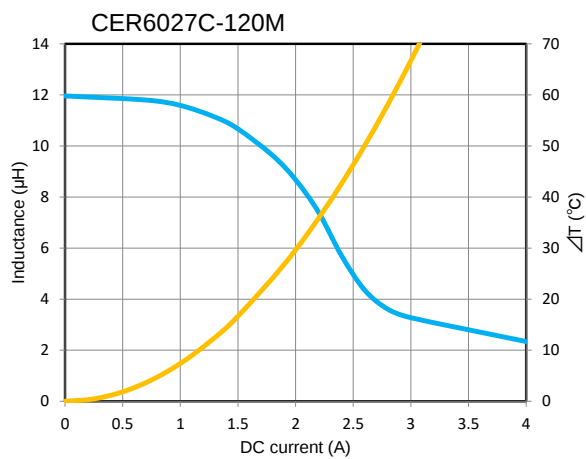
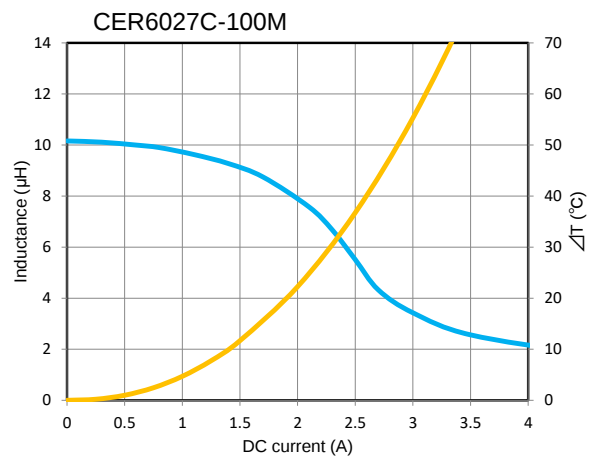
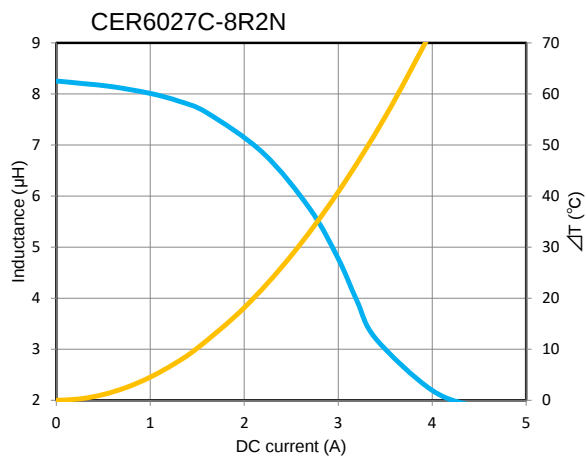
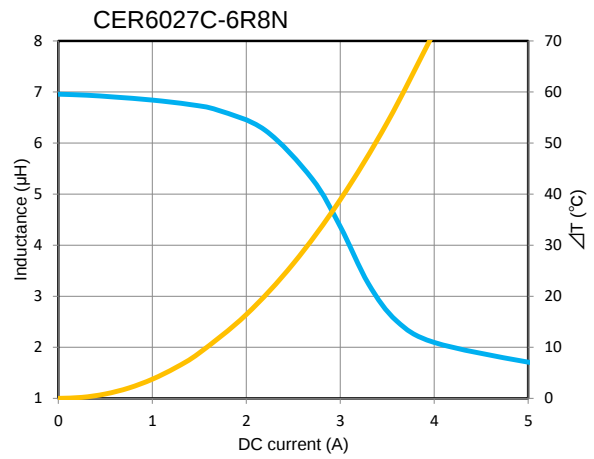
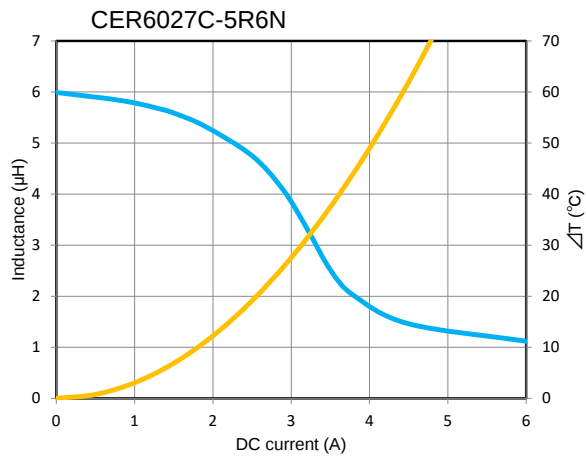
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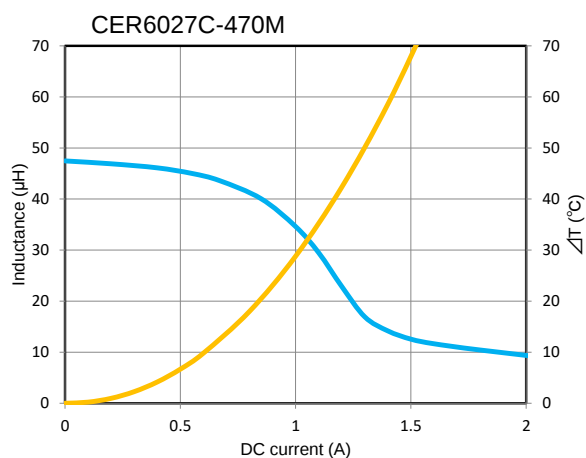
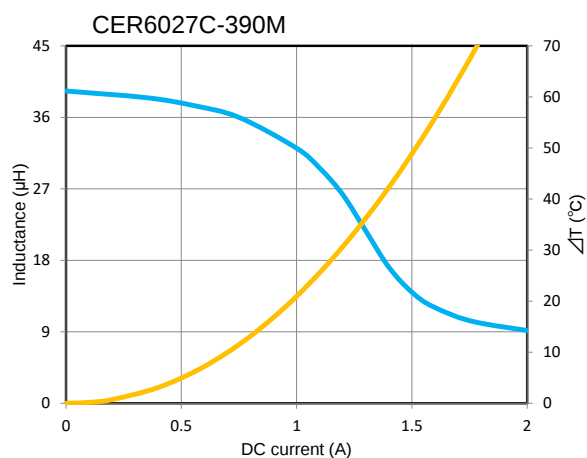
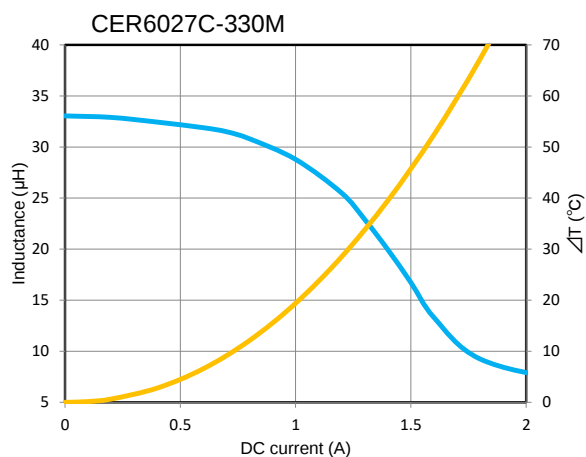
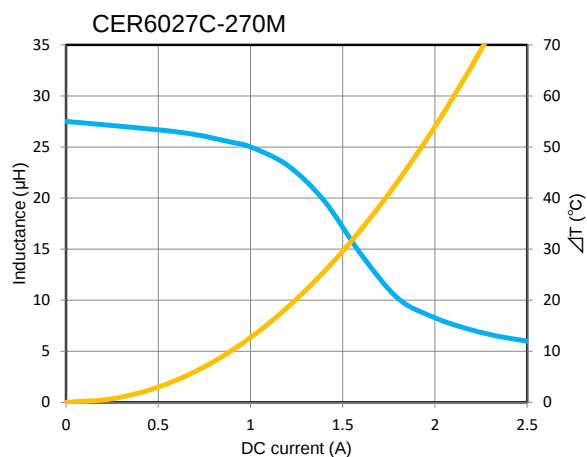
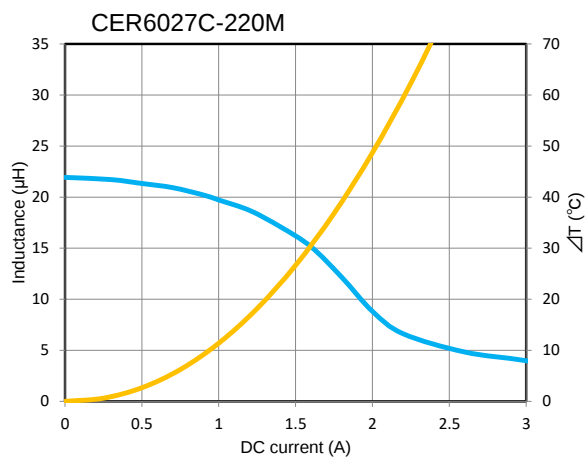
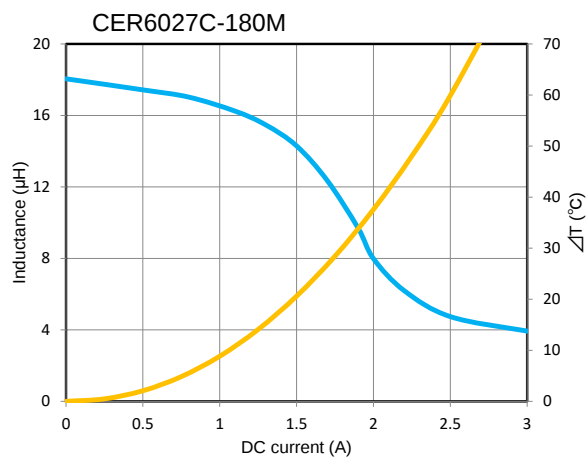
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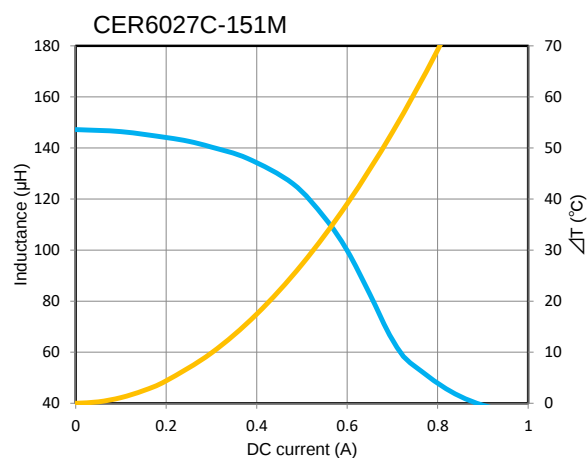
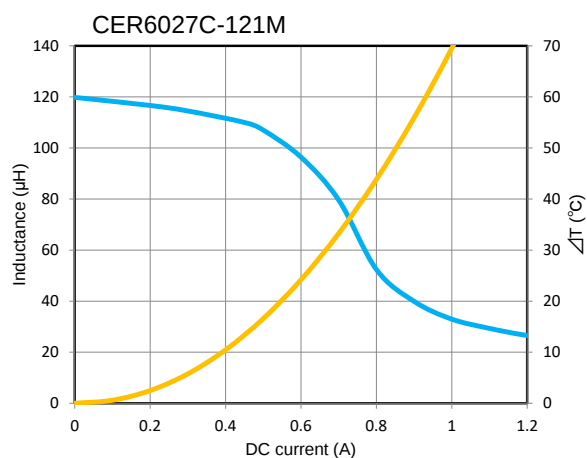
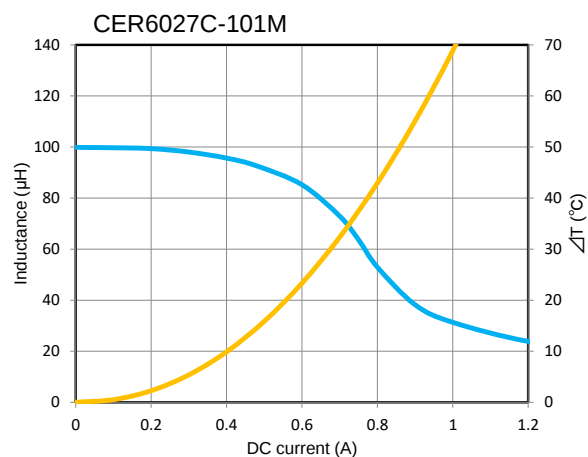
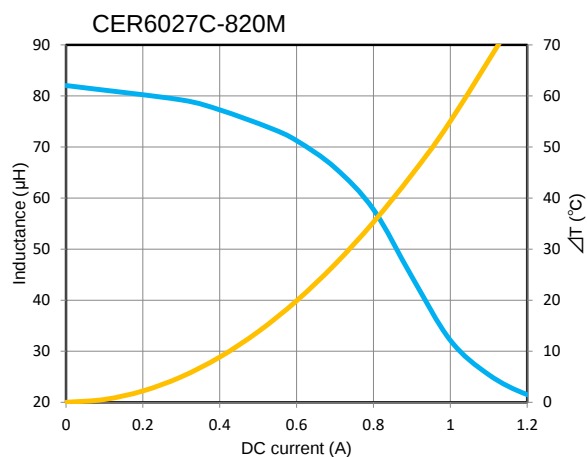
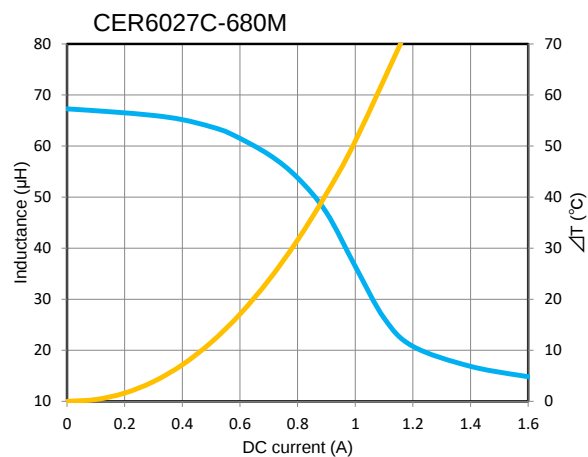
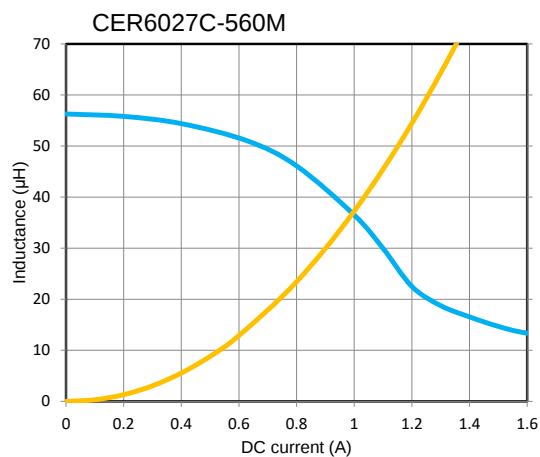
■ $L(25^{\circ}\text{C})$
■ ΔT



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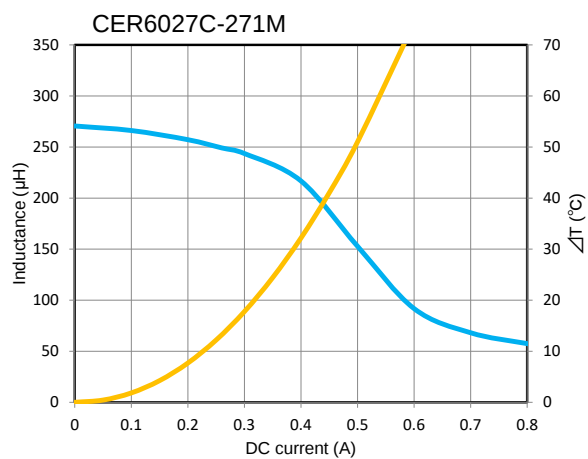
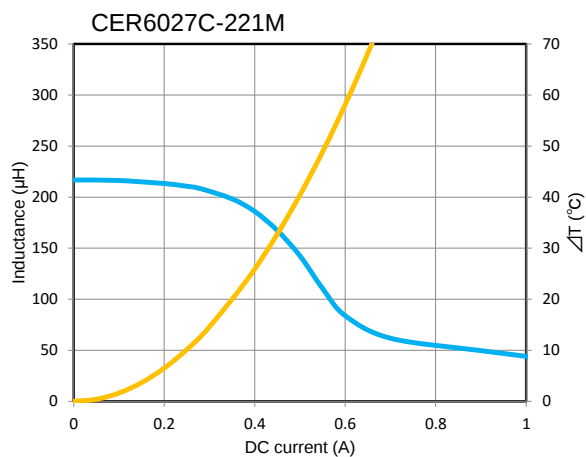
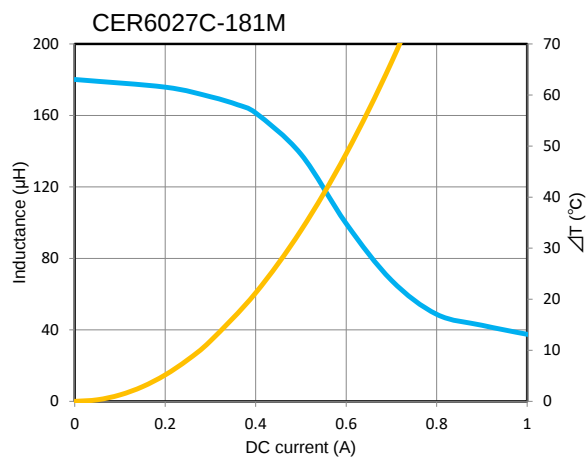
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