

CER7042CA

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 :

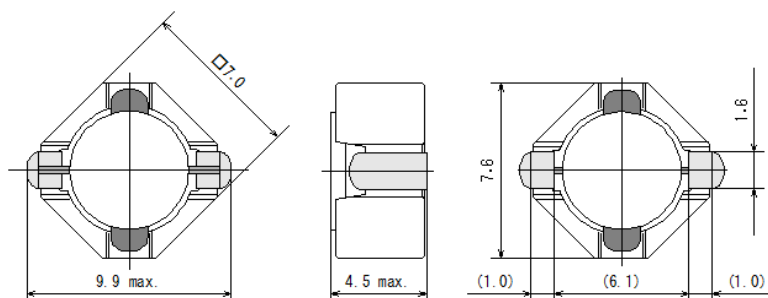


Weight : 0.705 g

■ Applications

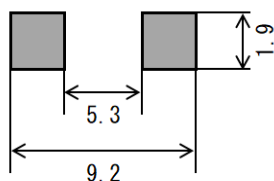
- Automotive/ECU,LED Headlights,Car Audio,Car Navigation
- Others/Medical,Energy,Power Supply,FA

■ Dimensions



(Unit : mm)

■ Recommended Land Pattern



(Unit : mm)



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<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
CER7042CA-1R2N	1.2 $\pm 30\%$	0.0080	7.75	6.25	6.55	4.60
CER7042CA-1R8N	1.8 $\pm 30\%$	0.0100	6.60	5.20	6.10	4.20
CER7042CA-2R2N	2.2 $\pm 30\%$	0.0110	5.75	4.65	5.65	4.00
CER7042CA-3R0N	3 $\pm 30\%$	0.0130	5.10	4.05	5.25	3.80
CER7042CA-3R6N	3.6 $\pm 30\%$	0.0150	4.60	3.65	4.95	3.60
CER7042CA-4R3N	4.3 $\pm 30\%$	0.0160	4.15	3.30	4.75	3.20
CER7042CA-5R1N	5.1 $\pm 30\%$	0.0200	3.75	2.95	4.20	2.90
CER7042CA-6R2N	6.2 $\pm 30\%$	0.0230	3.45	2.75	4.00	2.70
CER7042CA-7R5N	7.5 $\pm 30\%$	0.0270	3.20	2.55	3.60	2.50
CER7042CA-8R2N	8.2 $\pm 30\%$	0.0340	2.95	2.30	3.10	2.20
CER7042CA-100M	10 $\pm 20\%$	0.0400	2.80	2.20	2.90	2.05
CER7042CA-120M	12 $\pm 20\%$	0.0520	2.45	1.95	2.45	1.80
CER7042CA-150M	15 $\pm 20\%$	0.0600	2.30	1.80	2.30	1.70
CER7042CA-180M	18 $\pm 20\%$	0.0670	2.05	1.60	2.15	1.55
CER7042CA-220M	22 $\pm 20\%$	0.0780	1.85	1.50	2.00	1.45
CER7042CA-270M	27 $\pm 20\%$	0.100	1.65	1.30	1.75	1.25
CER7042CA-330M	33 $\pm 20\%$	0.120	1.55	1.20	1.60	1.15
CER7042CA-390M	39 $\pm 20\%$	0.140	1.35	1.10	1.50	1.05
CER7042CA-470M	47 $\pm 20\%$	0.180	1.25	1.00	1.30	0.950
CER7042CA-560M	56 $\pm 20\%$	0.210	1.15	0.900	1.20	0.850
CER7042CA-680M	68 $\pm 20\%$	0.250	1.05	0.820	1.05	0.750
CER7042CA-820M	82 $\pm 20\%$	0.300	0.970	0.750	0.980	0.700
CER7042CA-101M	100 $\pm 20\%$	0.380	0.860	0.680	0.870	0.630
CER7042CA-121M	120 $\pm 20\%$	0.450	0.810	0.620	0.790	0.580
CER7042CA-151M	150 $\pm 20\%$	0.570	0.720	0.550	0.690	0.510
CER7042CA-181M	180 $\pm 20\%$	0.630	0.660	0.500	0.640	0.480
CER7042CA-221M	220 $\pm 20\%$	0.780	0.580	0.450	0.590	0.430
CER7042CA-271M	270 $\pm 20\%$	0.980	0.520	0.400	0.520	0.380
CER7042CA-331M	330 $\pm 20\%$	1.27	0.470	0.370	0.460	0.350
CER7042CA-391M	390 $\pm 20\%$	1.41	0.440	0.340	0.420	0.320
CER7042CA-471M	470 $\pm 20\%$	1.77	0.400	0.300	0.380	0.280
CER7042CA-561M	560 $\pm 20\%$	1.97	0.360	0.280	0.360	0.260
CER7042CA-681M	680 $\pm 20\%$	2.51	0.330	0.250	0.310	0.230
CER7042CA-821M	820 $\pm 20\%$	2.81	0.290	0.230	0.290	0.210
CER7042CA-102M	1000 $\pm 20\%$	3.73	0.280	0.210	0.260	0.190

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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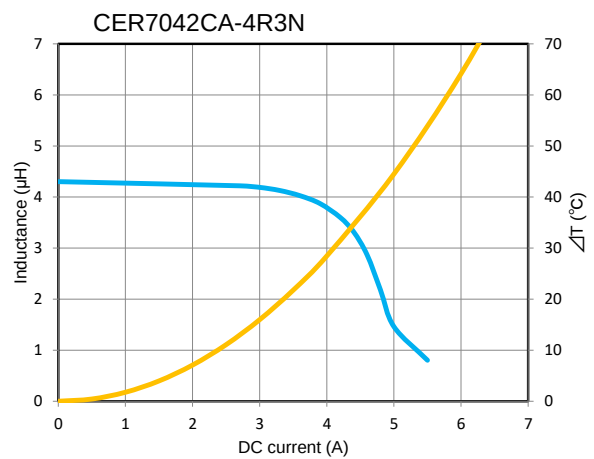
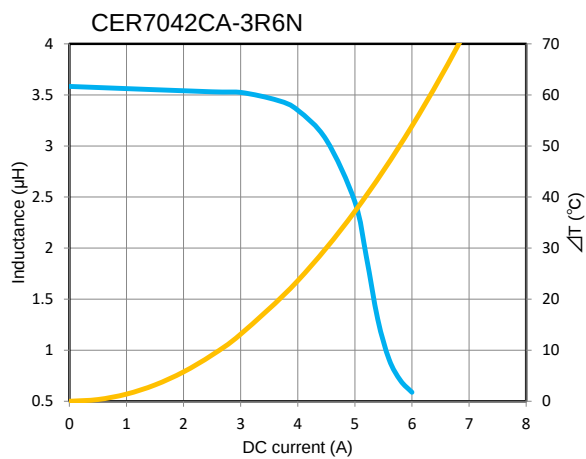
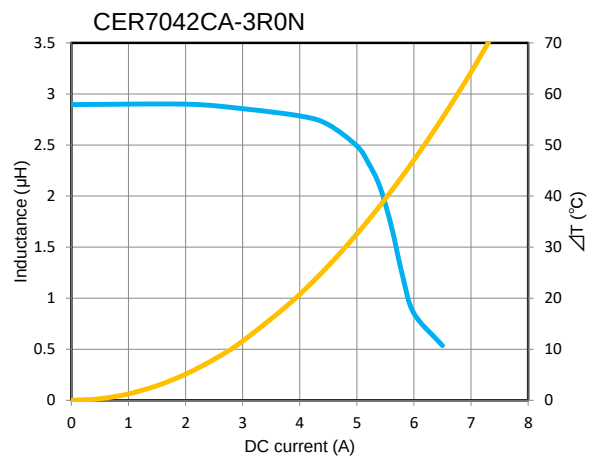
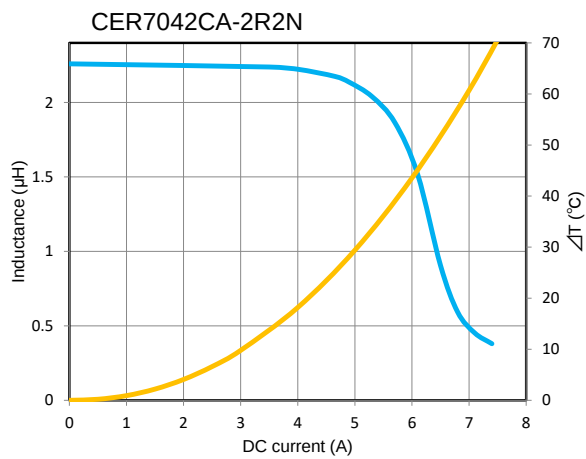
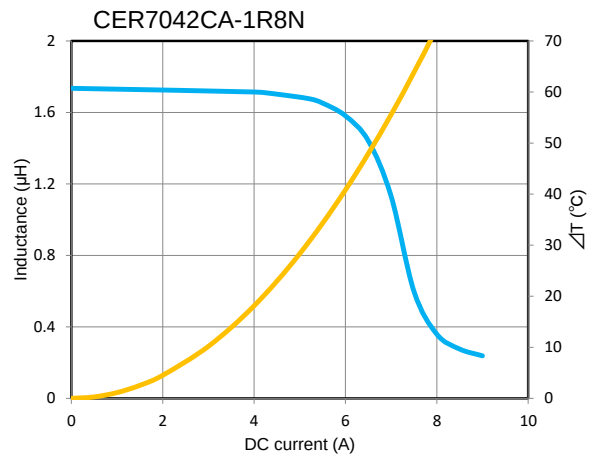
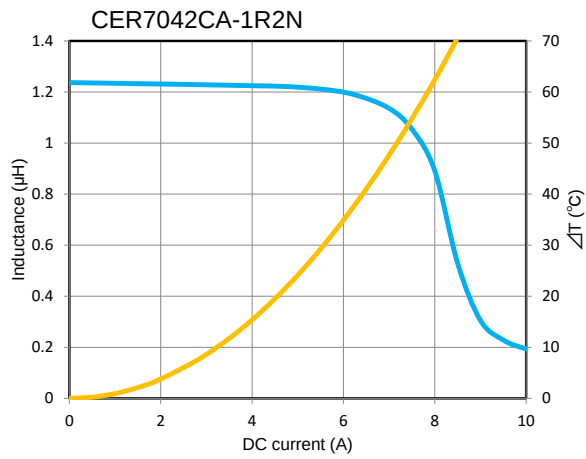
DC bias characteristics vs Temperature Rise Graph



L(25°C)



ΔT



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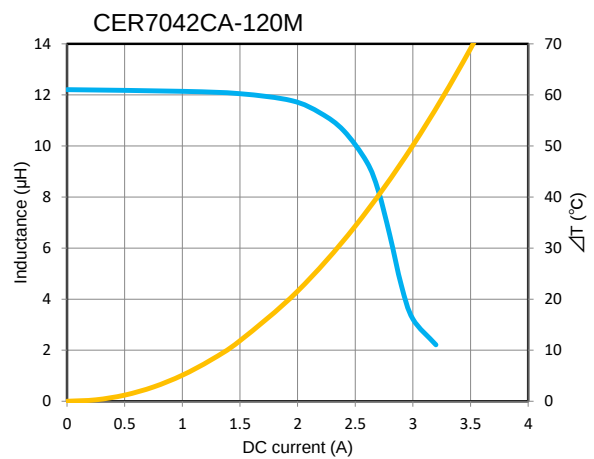
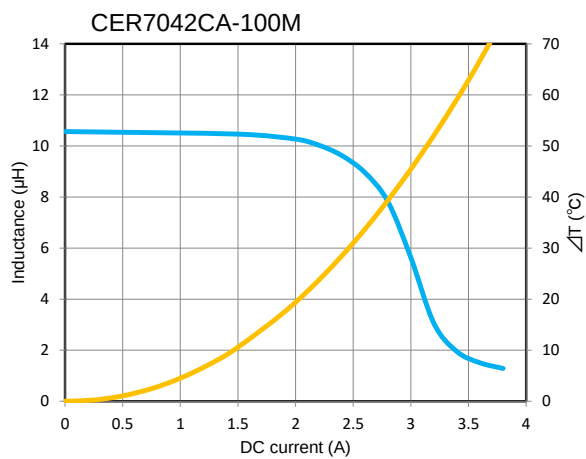
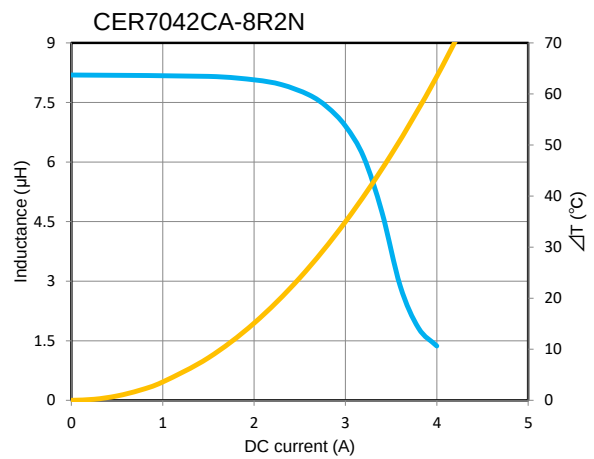
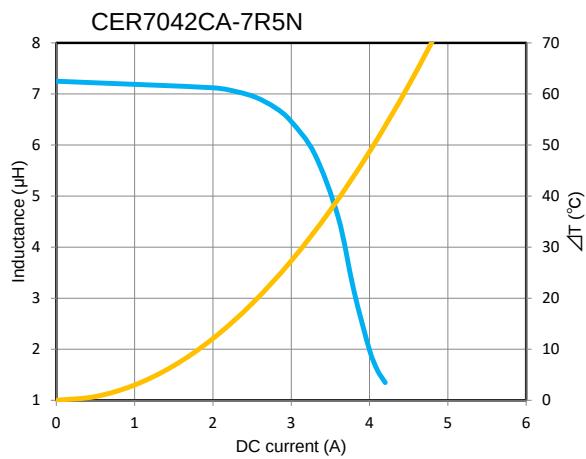
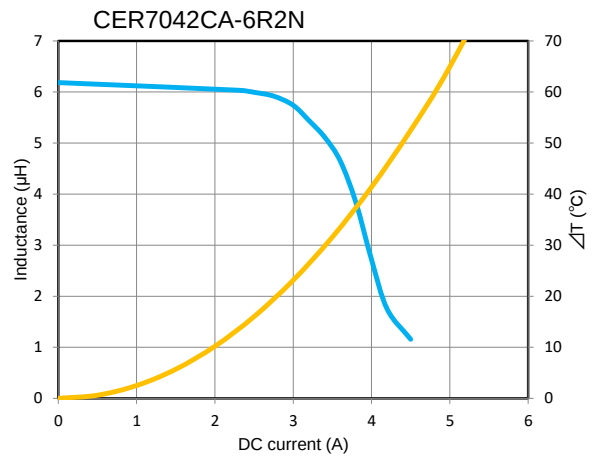
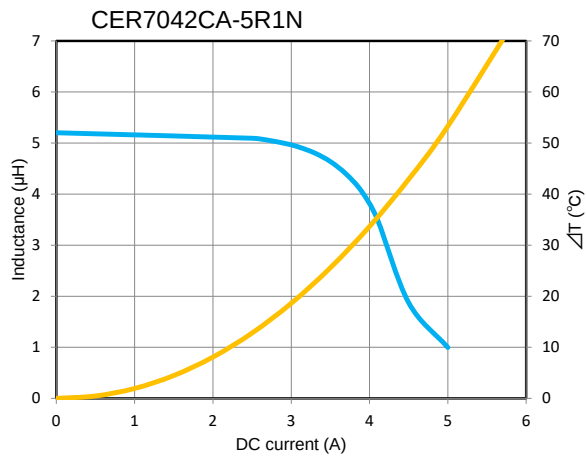
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L(25°C)



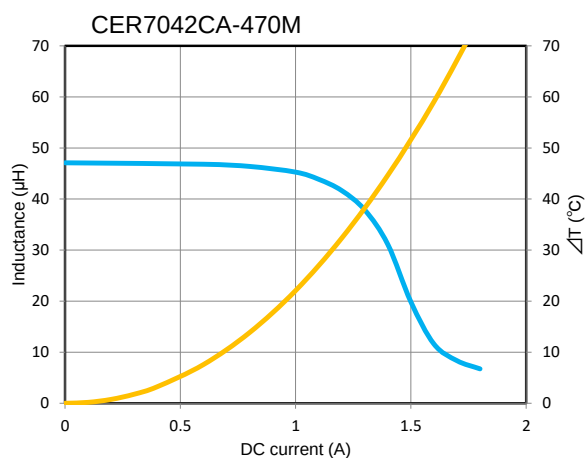
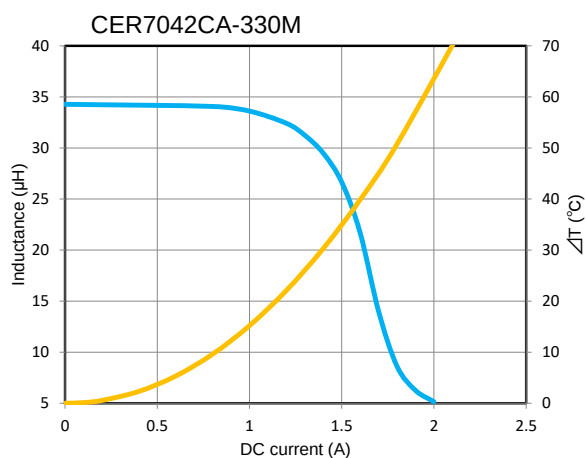
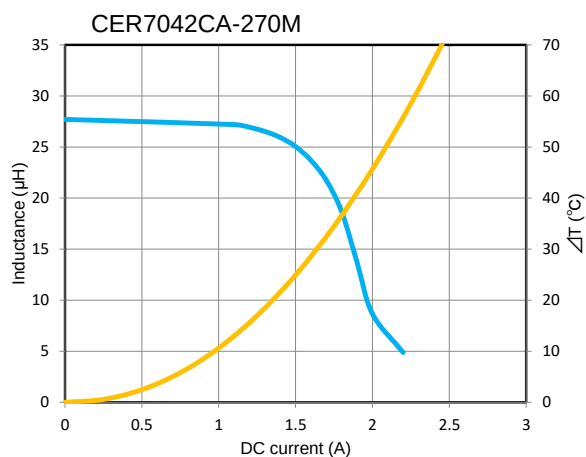
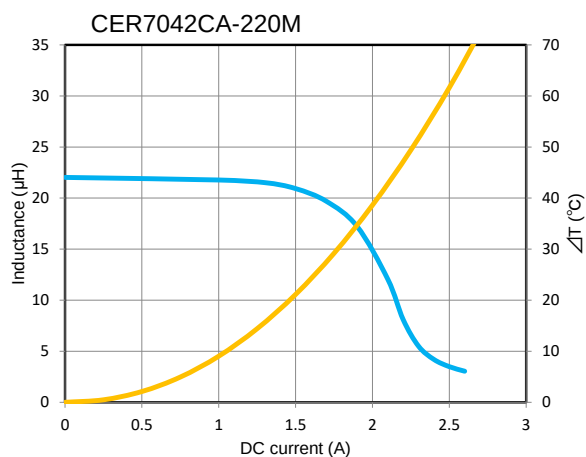
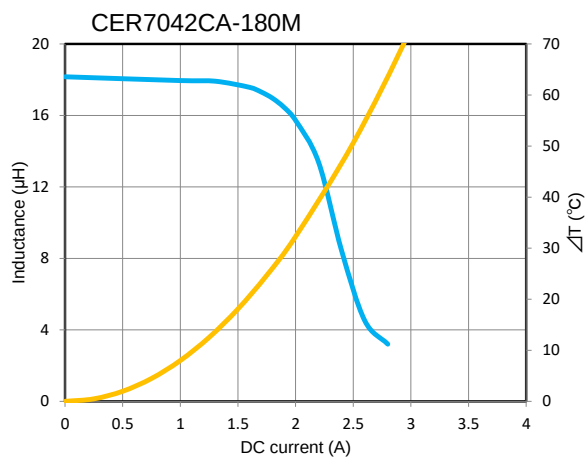
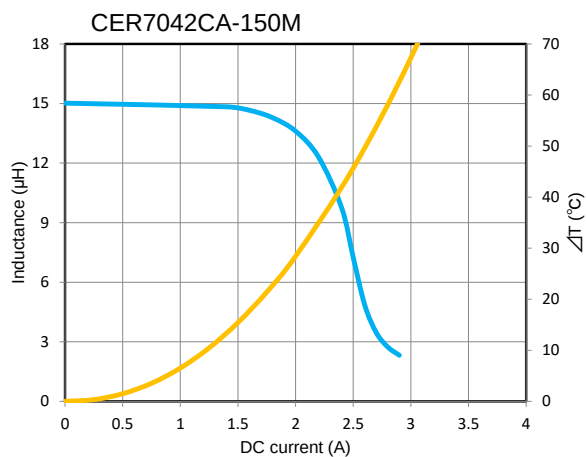
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DC bias characteristics vs Temperature Rise Graph

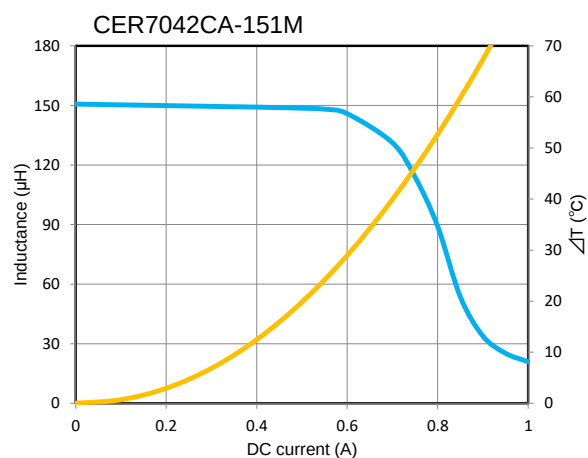
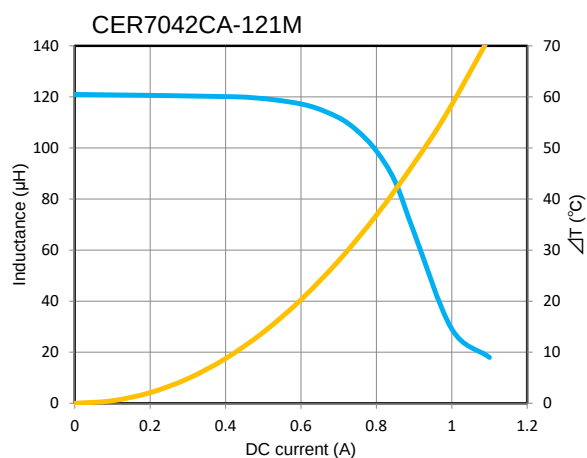
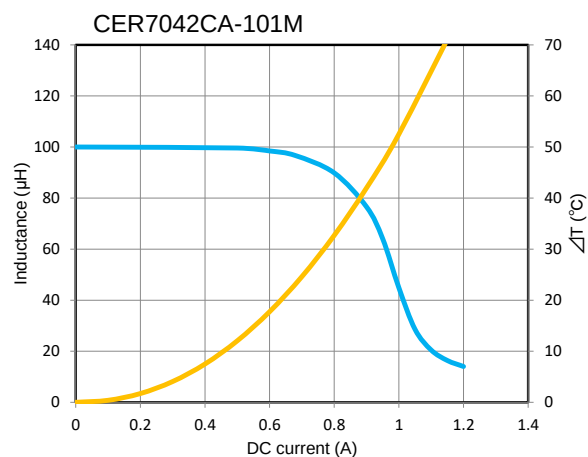
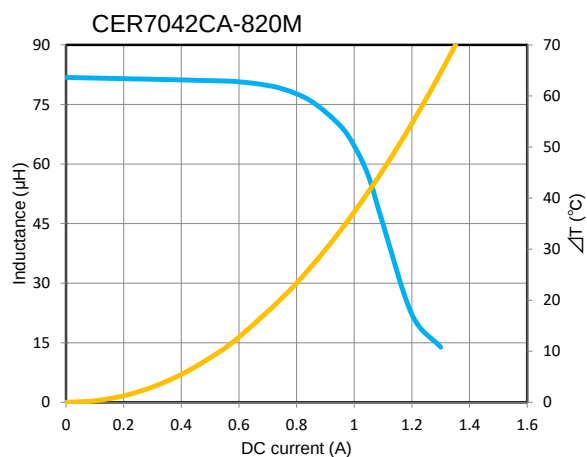
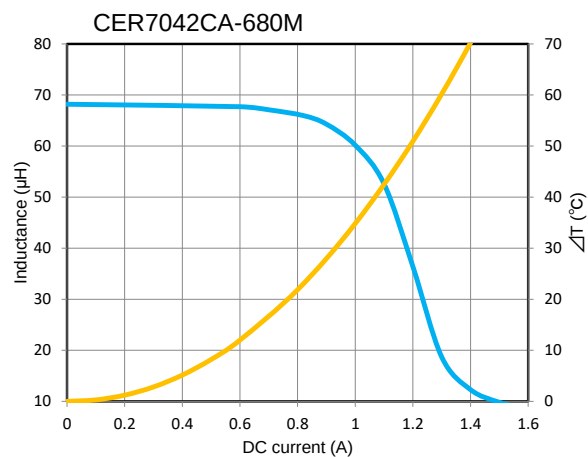
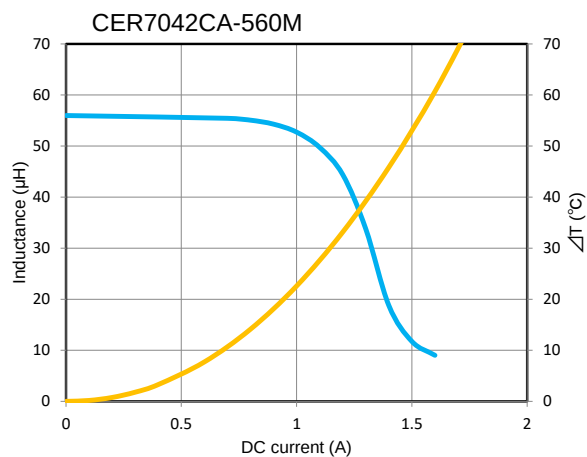
■ L(25°C)
 ■ ΔT



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DC bias characteristics vs Temperature Rise Graph

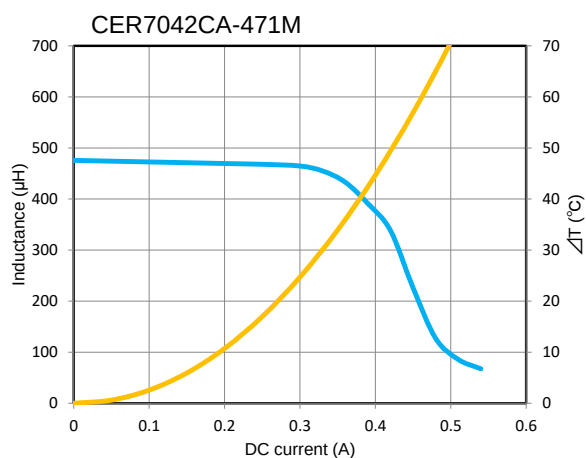
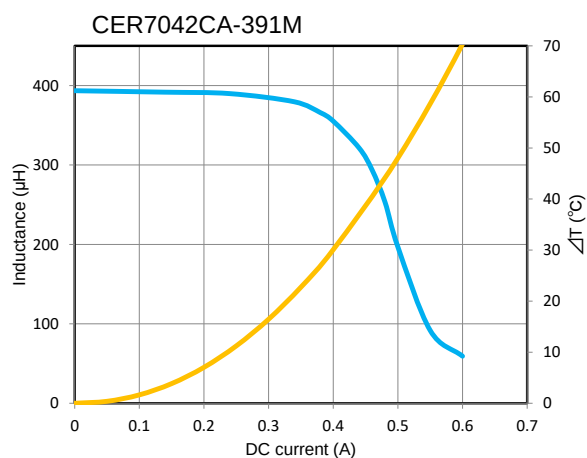
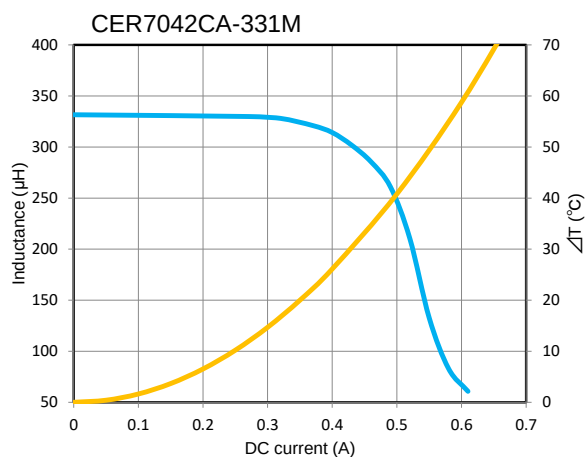
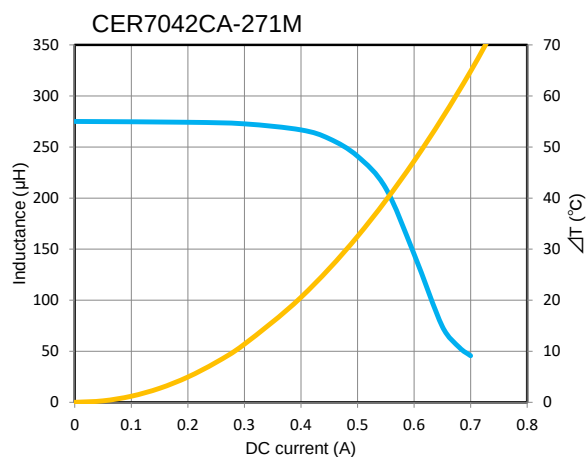
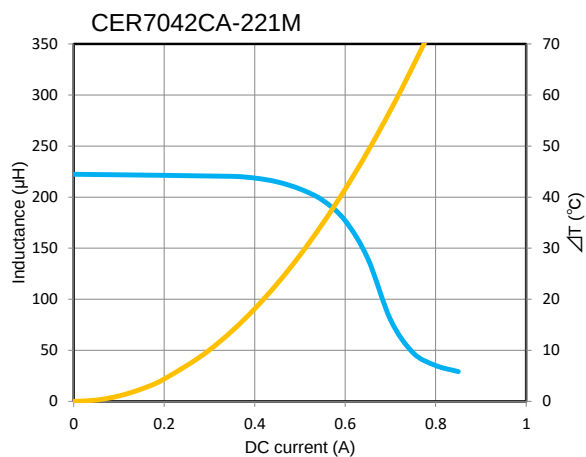
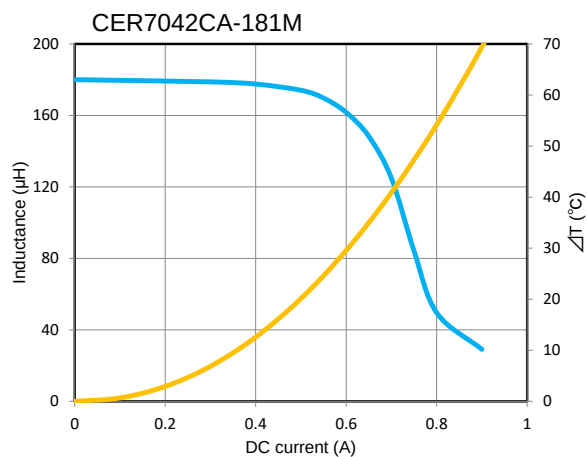
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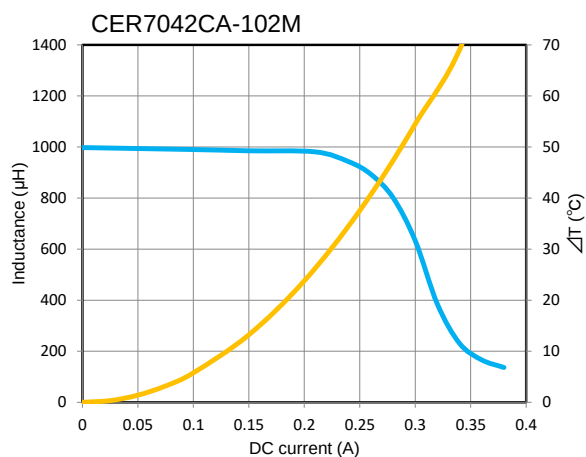
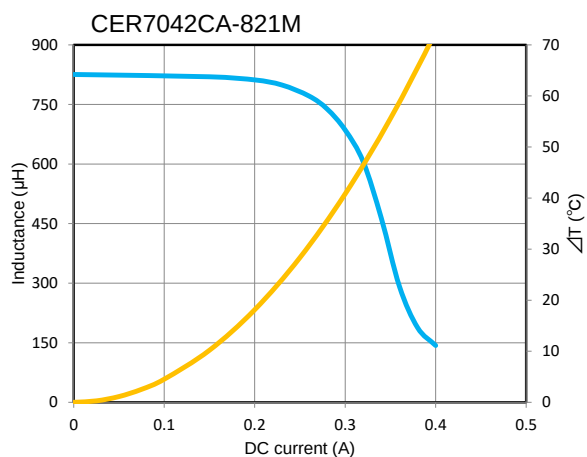
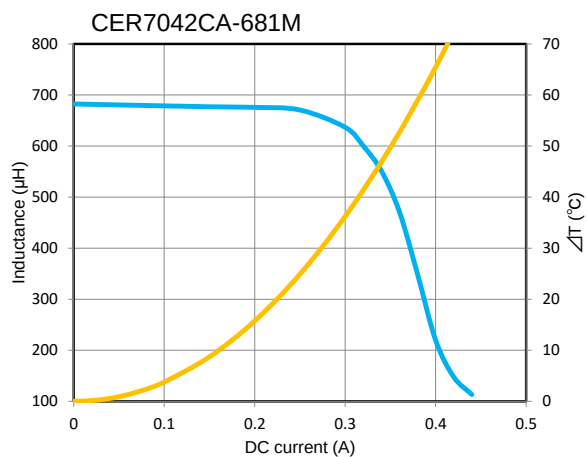
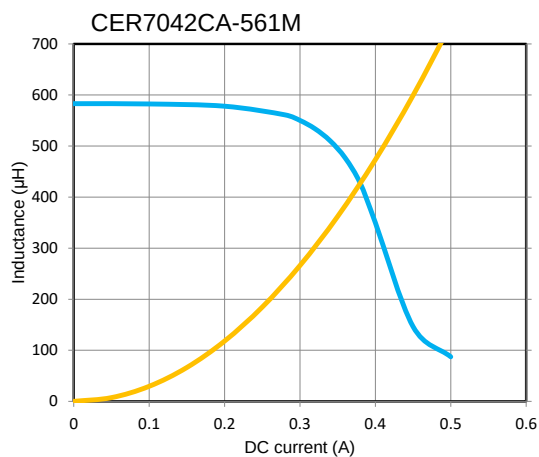
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