

CER7052C

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 :

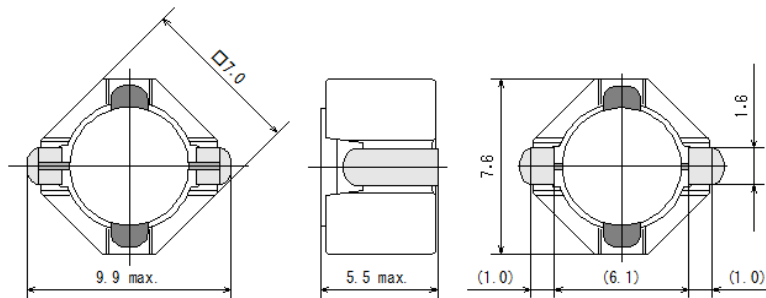


Weight : 0.91 g

■ Applications

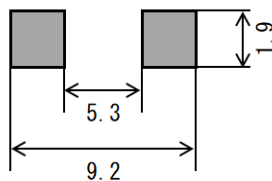
- Automotive/ECU,LED Headlights,Car Audio,Car Navigation
- Others/Medical,Energy,Power Supply,FA

■ Dimensions



(Unit : mm)

■ Recommended Land Pattern



(Unit : mm)



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

10-30, Ichibashimo-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0024, Japan
Over Seas Sales Dept. TEL : +81 45 511 3141, E-mail : ossg@sagami-elec.co.jp
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
CER7052C-1R2N	1.2 $\pm 30\%$	0.0090	9.50	6.70	6.20	4.60
CER7052C-1R8N	1.8 $\pm 30\%$	0.0100	8.05	5.80	5.90	4.20
CER7052C-2R2N	2.2 $\pm 30\%$	0.0120	7.00	4.95	5.50	4.00
CER7052C-3R0N	3 $\pm 30\%$	0.0130	6.10	4.30	5.10	3.80
CER7052C-3R6N	3.6 $\pm 30\%$	0.0150	5.50	3.90	4.80	3.60
CER7052C-4R3N	4.3 $\pm 30\%$	0.0160	4.95	3.45	4.55	3.30
CER7052C-5R1N	5.1 $\pm 30\%$	0.0180	4.65	3.30	4.30	3.10
CER7052C-6R2N	6.2 $\pm 30\%$	0.0200	4.20	3.00	4.15	2.95
CER7052C-7R5N	7.5 $\pm 30\%$	0.0210	3.90	2.80	3.95	2.80
CER7052C-8R2N	8.2 $\pm 30\%$	0.0260	3.55	2.55	3.60	2.60
CER7052C-100M	10 $\pm 20\%$	0.0320	3.40	2.40	3.30	2.40
CER7052C-120M	12 $\pm 20\%$	0.0410	3.00	2.15	2.85	2.05
CER7052C-150M	15 $\pm 20\%$	0.0470	2.70	1.90	2.65	1.90
CER7052C-180M	18 $\pm 20\%$	0.0590	2.45	1.75	2.40	1.75
CER7052C-220M	22 $\pm 20\%$	0.0720	2.20	1.55	2.10	1.55
CER7052C-270M	27 $\pm 20\%$	0.0870	1.95	1.40	1.90	1.40
CER7052C-330M	33 $\pm 20\%$	0.100	1.80	1.30	1.75	1.30
CER7052C-390M	39 $\pm 20\%$	0.120	1.60	1.15	1.60	1.15
CER7052C-470M	47 $\pm 20\%$	0.150	1.50	1.10	1.45	1.05
CER7052C-560M	56 $\pm 20\%$	0.170	1.40	1.00	1.30	0.970
CER7052C-680M	68 $\pm 20\%$	0.210	1.25	0.897	1.20	0.870
CER7052C-820M	82 $\pm 20\%$	0.250	1.10	0.807	1.10	0.800
CER7052C-101M	100 $\pm 20\%$	0.320	1.00	0.730	0.980	0.730
CER7052C-121M	120 $\pm 20\%$	0.370	0.970	0.683	0.910	0.660
CER7052C-151M	150 $\pm 20\%$	0.460	0.860	0.600	0.800	0.580
CER7052C-181M	180 $\pm 20\%$	0.580	0.790	0.550	0.720	0.520
CER7052C-221M	220 $\pm 20\%$	0.690	0.720	0.500	0.650	0.470
CER7052C-271M	270 $\pm 20\%$	0.860	0.640	0.450	0.580	0.420
CER7052C-331M	330 $\pm 20\%$	0.980	0.570	0.403	0.550	0.390
CER7052C-391M	390 $\pm 20\%$	1.21	0.520	0.365	0.480	0.350
CER7052C-471M	470 $\pm 20\%$	1.56	0.470	0.333	0.420	0.310
CER7052C-561M	560 $\pm 20\%$	1.75	0.440	0.307	0.390	0.290
CER7052C-681M	680 $\pm 20\%$	2.20	0.400	0.282	0.350	0.260
CER7052C-821M	820 $\pm 20\%$	2.44	0.360	0.259	0.330	0.250
CER7052C-102M	1000 $\pm 20\%$	3.19	0.330	0.227	0.290	0.212

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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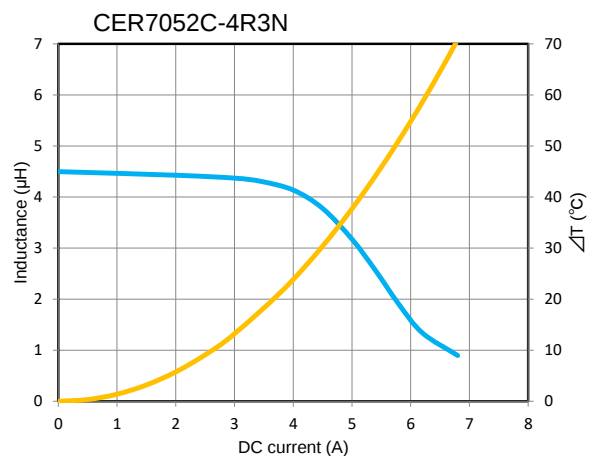
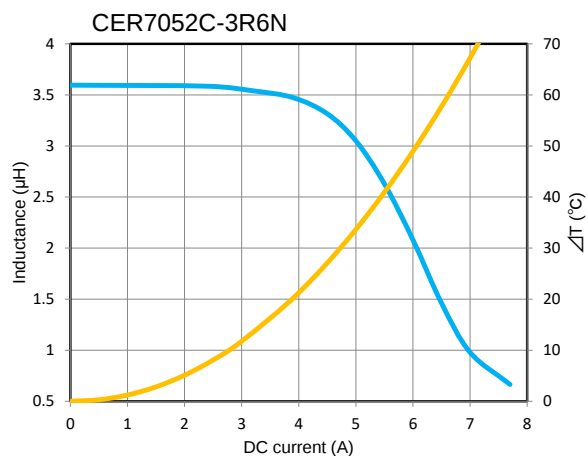
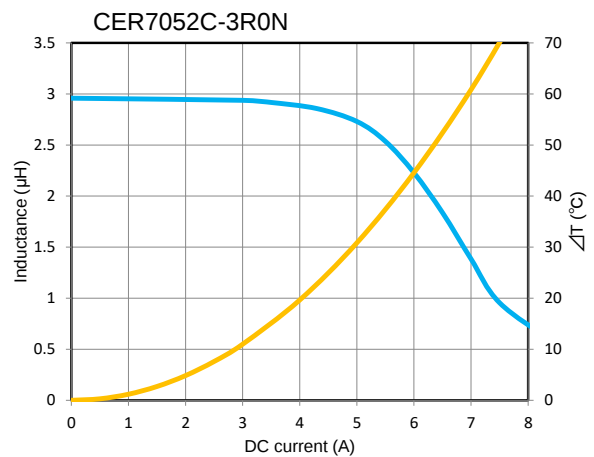
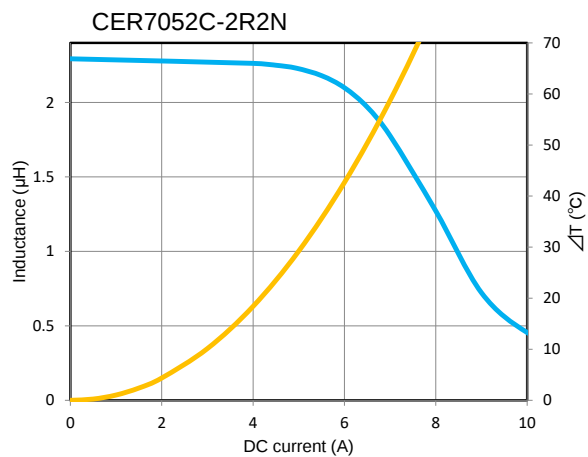
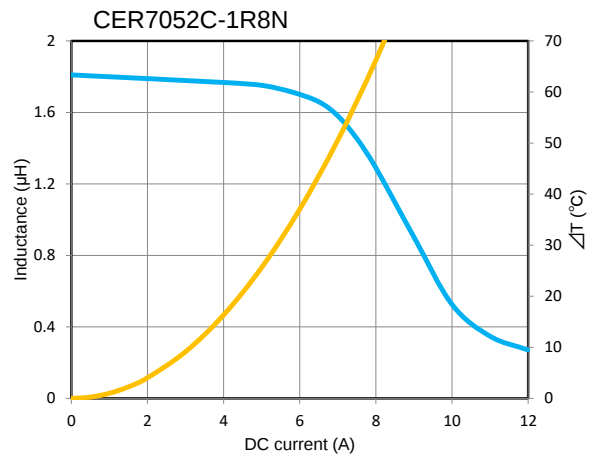
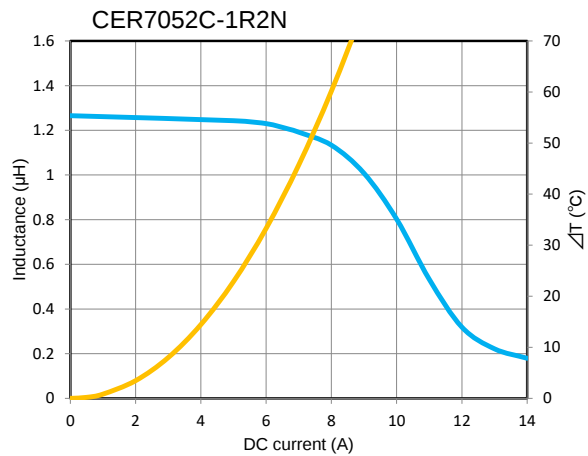
DC bias characteristics vs Temperature Rise Graph



L(25°C)



ΔT



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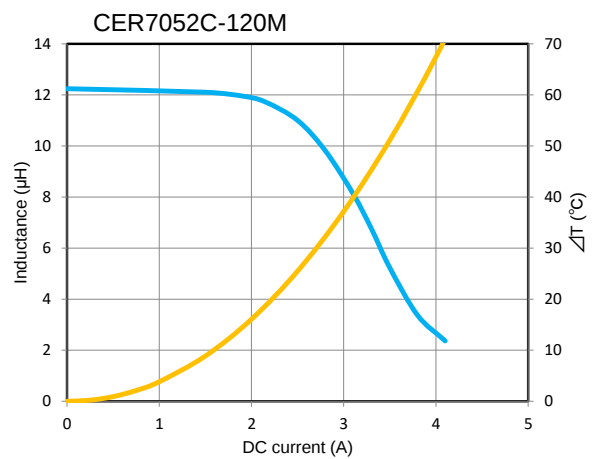
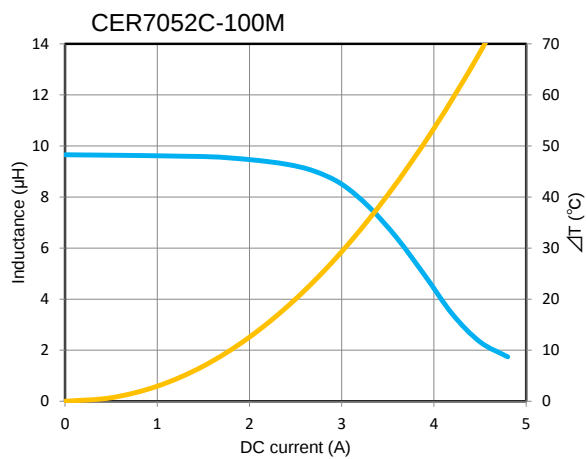
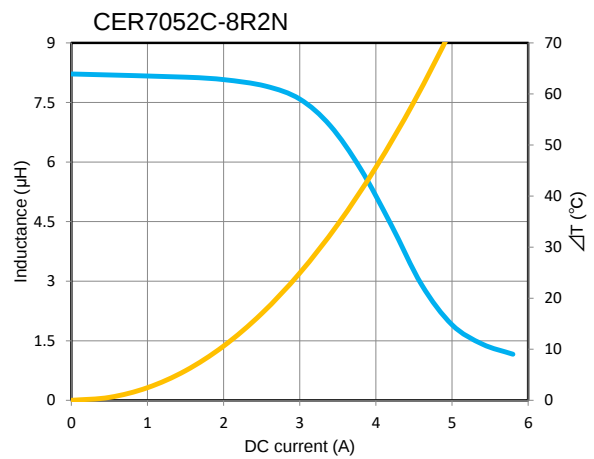
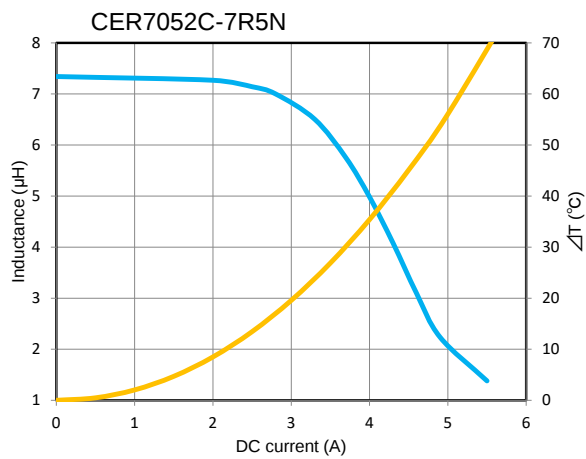
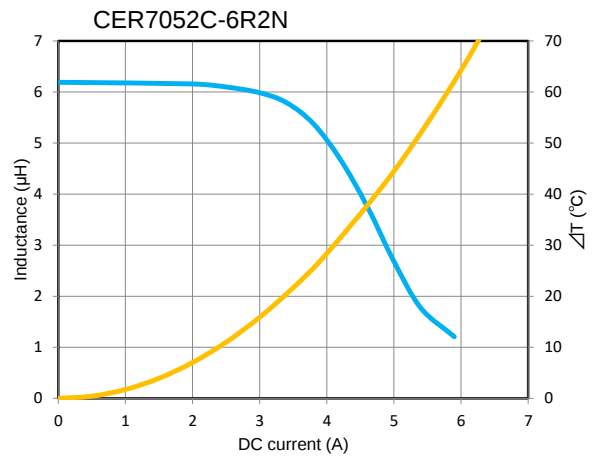
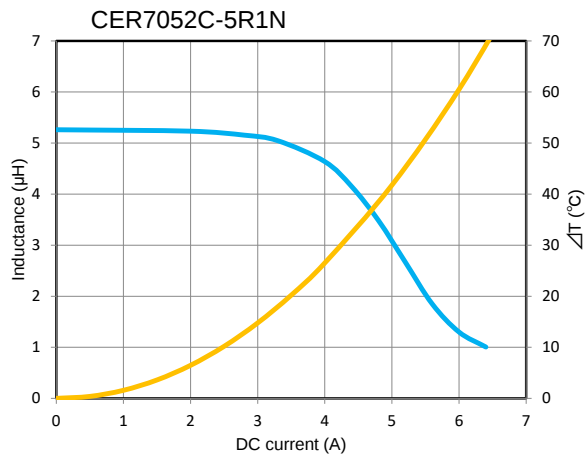
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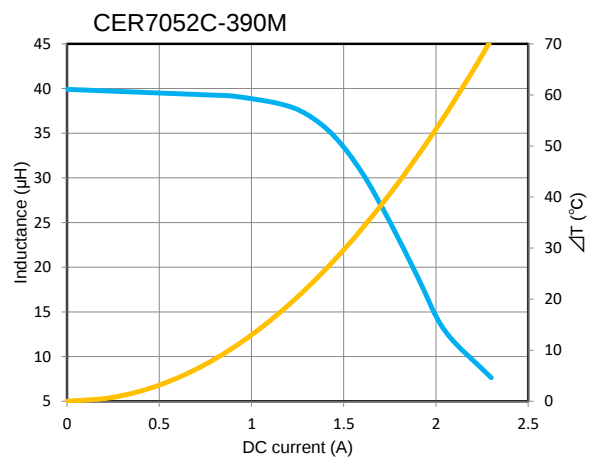
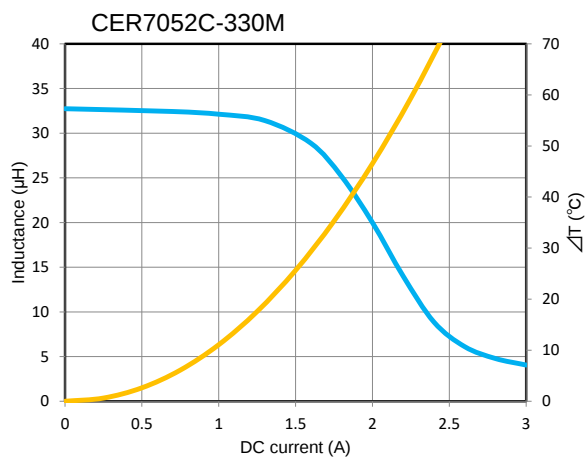
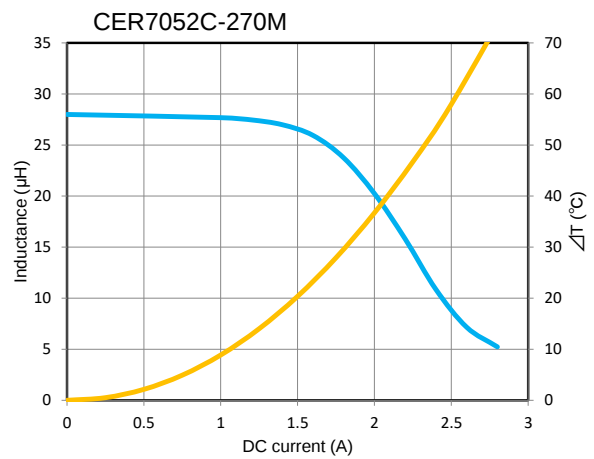
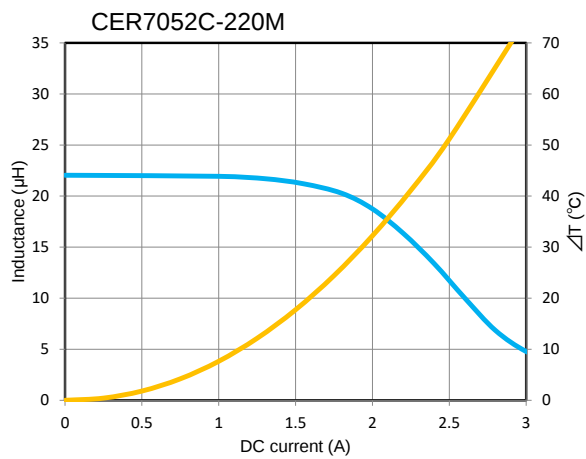
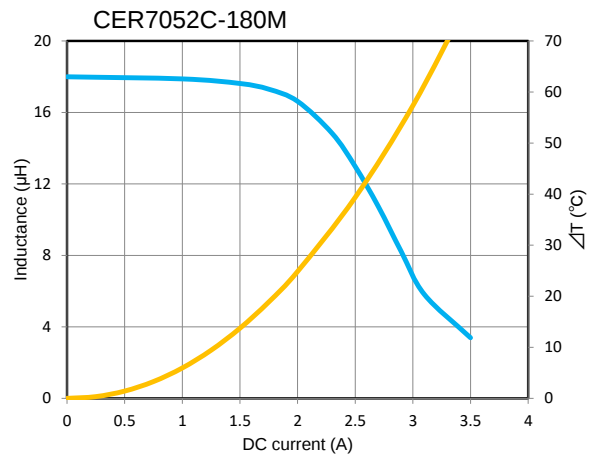
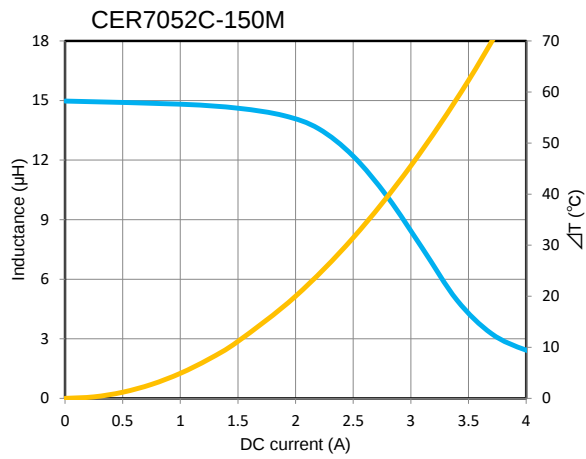
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L(25°C)



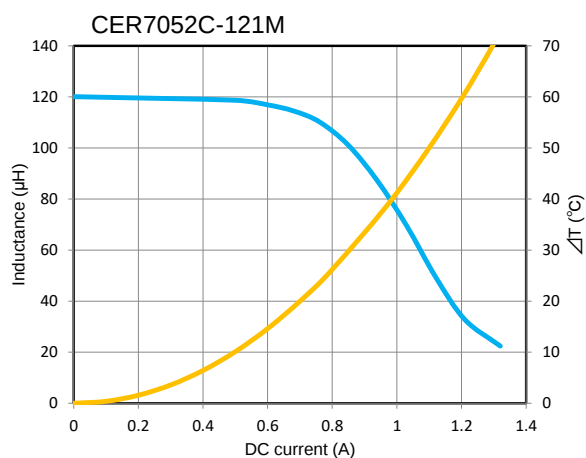
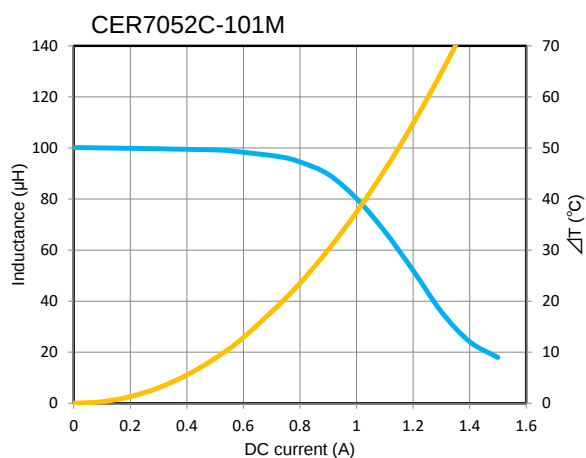
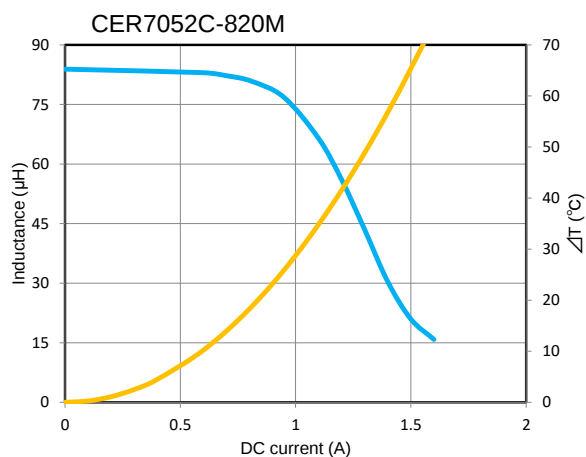
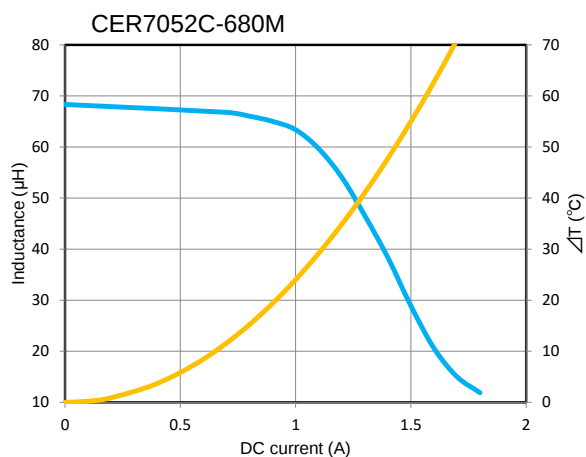
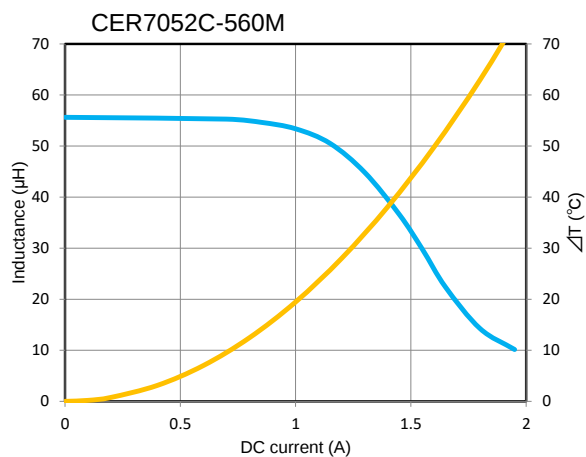
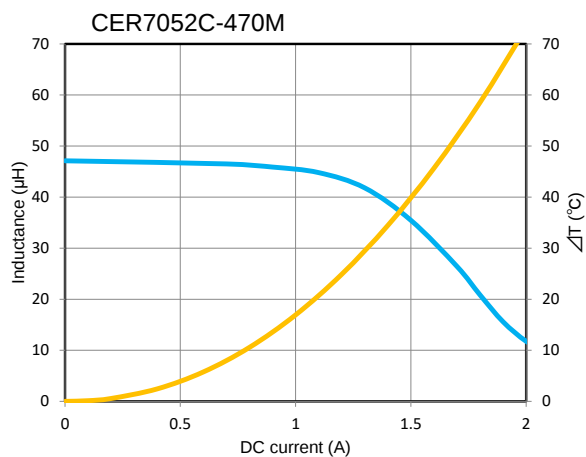
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DC bias characteristics vs Temperature Rise Graph

■ $L(25^{\circ}\text{C})$
■ ΔT



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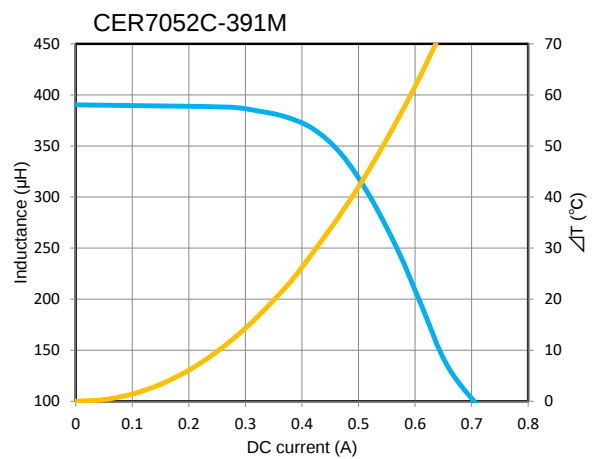
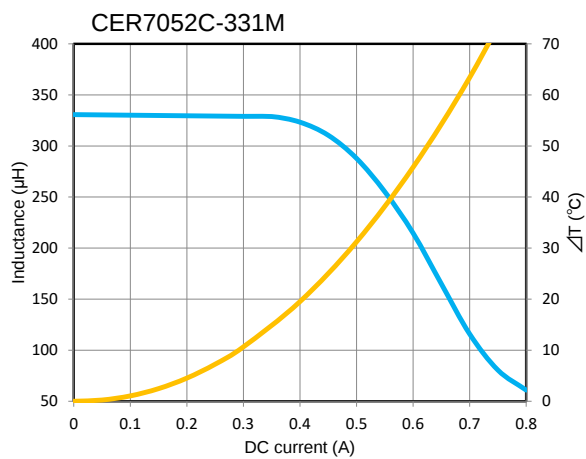
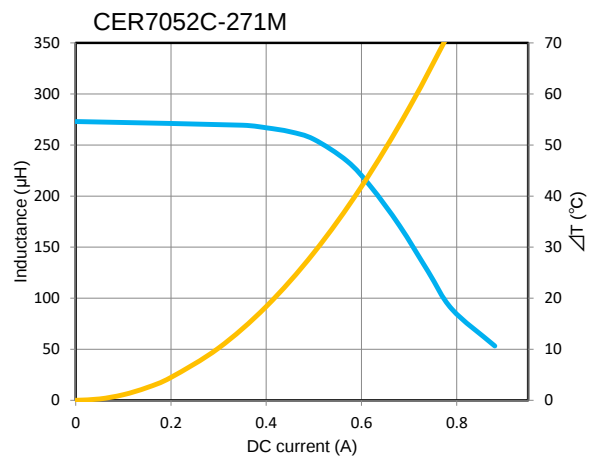
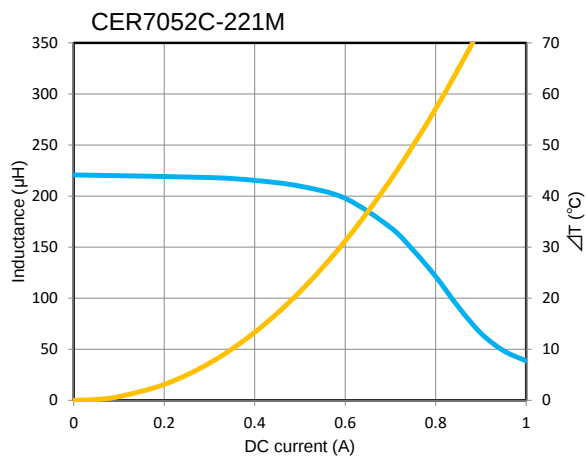
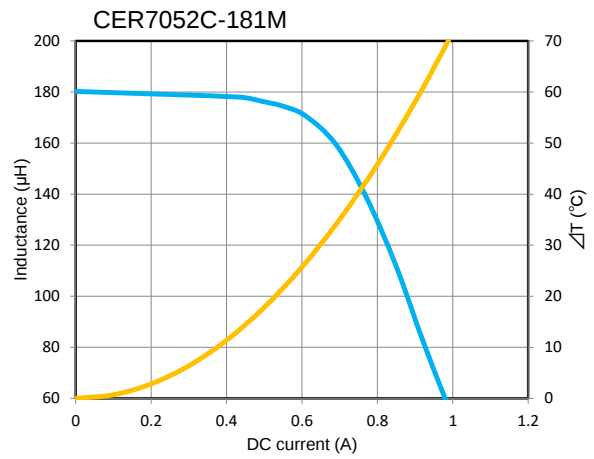
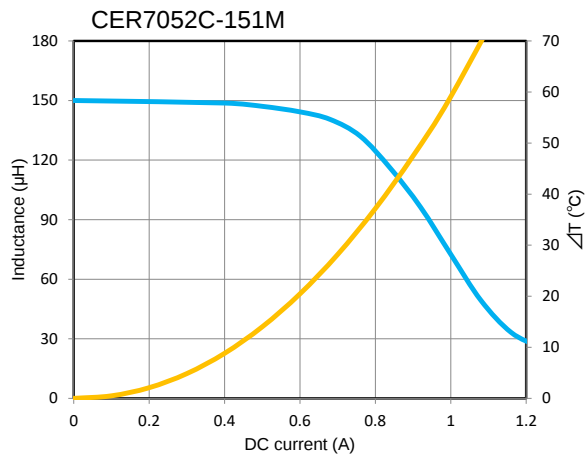
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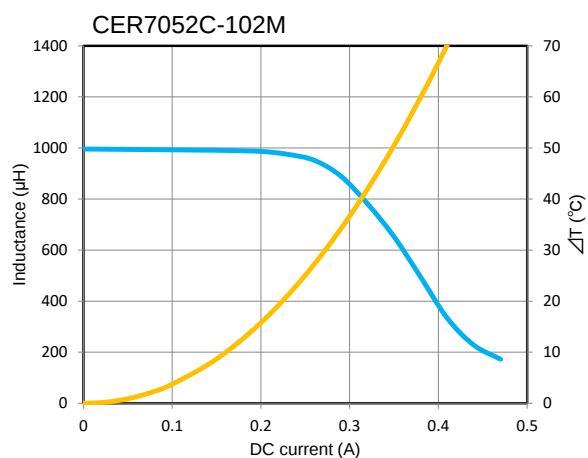
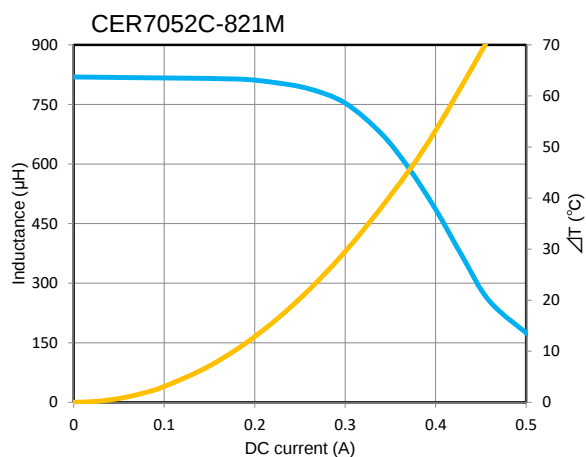
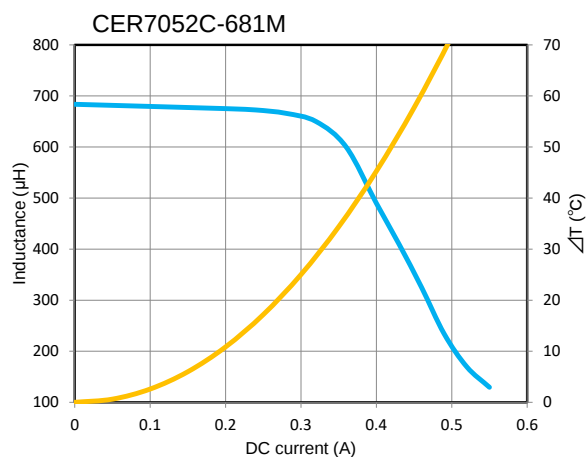
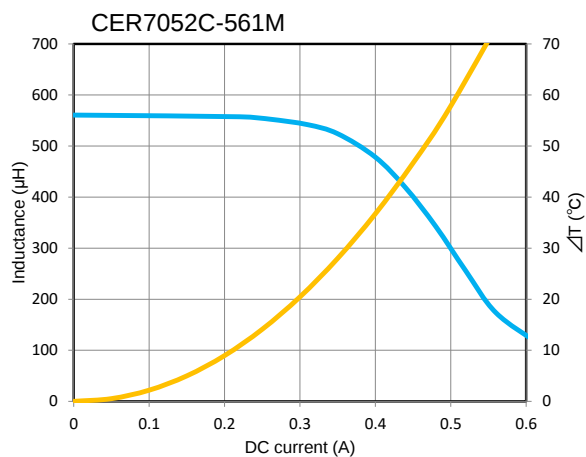
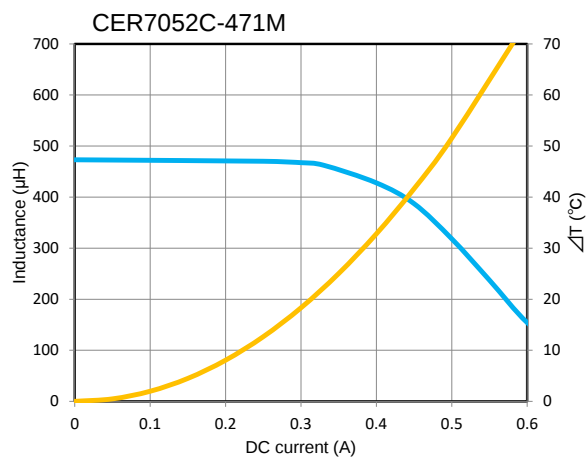
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■ L(25°C) ■ ΔT



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