

CER7042BA



■ 特长

- 成本有竞争力的廉价版
- 闭磁路形式的贴片功率电感
- 最适合作为电源的扼流线圈用
- 大电流的结构
- 重视直流重叠电流特性
- 工作温度范围：-40°C~+125°C（包含自身发热）

磁路构造：

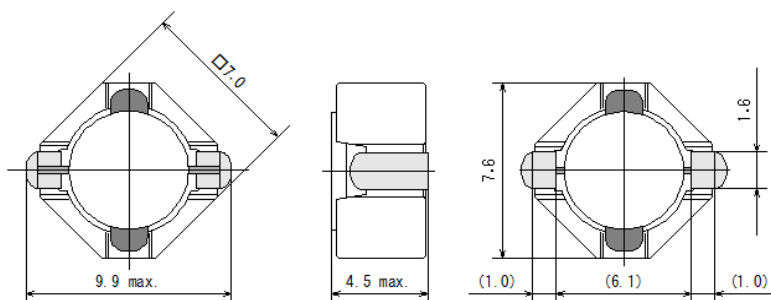


单体重： 0.6 g

■ 用途

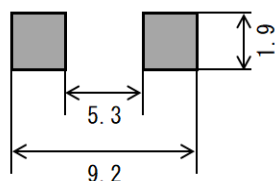
- 音频 & 映像/照相机, 录音机, 电视&显示器, 迷你音响, AV功放, 业务用功放
- 电脑/投影仪, 个人电脑, 打印机
- 家电/LED照明
- 其他/医疗机器, 美容机器, 能源, 各种电源, 无线通讯机, 工业机器

■ 外形尺寸



(单位：mm)

■ 推荐焊盘



(单位：mm)



相模电机（深圳）有限公司

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<https://www.sagami-elec.co.jp>

■ 电气规格

相模品番	电感值 (μ H)	直流电阻 (Ω) $\pm 30\%$	额定 直流电流 (A)		额定温度 上升电流 (A)	
			Typical	Spec	Typical	Spec
CER7042BA-1R2N	1.2 $\pm 30\%$	0.0080	7.75	6.25	6.55	4.60
CER7042BA-1R8N	1.8 $\pm 30\%$	0.0100	6.60	5.20	6.10	4.20
CER7042BA-2R2N	2.2 $\pm 30\%$	0.0110	5.75	4.65	5.65	4.00
CER7042BA-3R0N	3 $\pm 30\%$	0.0130	5.10	4.05	5.25	3.80
CER7042BA-3R6N	3.6 $\pm 30\%$	0.0150	4.60	3.65	4.95	3.60
CER7042BA-4R3N	4.3 $\pm 30\%$	0.0160	4.15	3.30	4.75	3.20
CER7042BA-5R1N	5.1 $\pm 30\%$	0.0200	3.75	2.95	4.20	2.90
CER7042BA-6R2N	6.2 $\pm 30\%$	0.0230	3.45	2.75	4.00	2.70
CER7042BA-7R5N	7.5 $\pm 30\%$	0.0270	3.20	2.55	3.60	2.50
CER7042BA-8R2N	8.2 $\pm 30\%$	0.0340	2.95	2.30	3.10	2.20
CER7042BA-100M	10 $\pm 20\%$	0.0400	2.80	2.20	2.90	2.05
CER7042BA-120M	12 $\pm 20\%$	0.0520	2.45	1.95	2.45	1.80
CER7042BA-150M	15 $\pm 20\%$	0.0600	2.30	1.80	2.30	1.70
CER7042BA-180M	18 $\pm 20\%$	0.0670	2.05	1.60	2.15	1.55
CER7042BA-220M	22 $\pm 20\%$	0.0800	1.85	1.50	2.00	1.45
CER7042BA-270M	27 $\pm 20\%$	0.100	1.65	1.30	1.75	1.25
CER7042BA-330M	33 $\pm 20\%$	0.120	1.55	1.20	1.60	1.15
CER7042BA-390M	39 $\pm 20\%$	0.140	1.35	1.10	1.50	1.05
CER7042BA-470M	47 $\pm 20\%$	0.180	1.25	1.00	1.30	0.950
CER7042BA-560M	56 $\pm 20\%$	0.210	1.15	0.900	1.20	0.850
CER7042BA-680M	68 $\pm 20\%$	0.250	1.05	0.820	1.05	0.750
CER7042BA-820M	82 $\pm 20\%$	0.300	0.970	0.750	0.980	0.700
CER7042BA-101M	100 $\pm 20\%$	0.380	0.860	0.680	0.870	0.630
CER7042BA-121M	120 $\pm 20\%$	0.450	0.810	0.620	0.790	0.580
CER7042BA-151M	150 $\pm 20\%$	0.570	0.720	0.550	0.690	0.510
CER7042BA-181M	180 $\pm 20\%$	0.630	0.660	0.500	0.640	0.480
CER7042BA-221M	220 $\pm 20\%$	0.780	0.580	0.450	0.590	0.430
CER7042BA-271M	270 $\pm 20\%$	0.980	0.520	0.400	0.520	0.380
CER7042BA-331M	330 $\pm 20\%$	1.27	0.470	0.370	0.460	0.350
CER7042BA-391M	390 $\pm 20\%$	1.41	0.440	0.340	0.420	0.320
CER7042BA-471M	470 $\pm 20\%$	1.77	0.400	0.300	0.380	0.280
CER7042BA-561M	560 $\pm 20\%$	1.97	0.360	0.280	0.360	0.260
CER7042BA-681M	680 $\pm 20\%$	2.51	0.330	0.250	0.310	0.230
CER7042BA-821M	820 $\pm 20\%$	2.81	0.290	0.230	0.290	0.210
CER7042BA-102M	1000 $\pm 20\%$	3.73	0.280	0.210	0.260	0.190

电感量测试条件:100kHz, 1V

直流饱和容许电流:电感值下降至初始值的30%以内的电流值

温度上升容许电流:磁芯表面温度上升至40°C以下的电流值



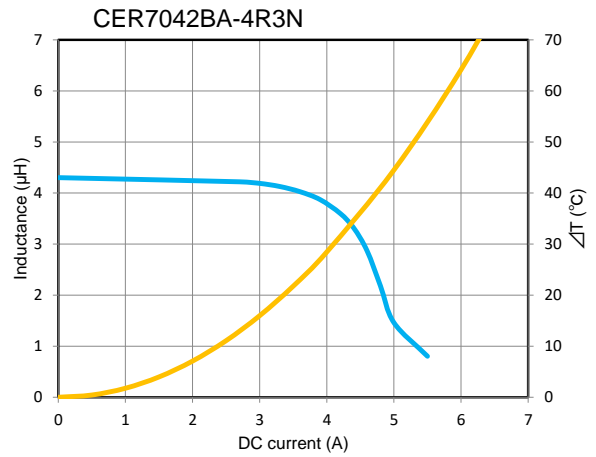
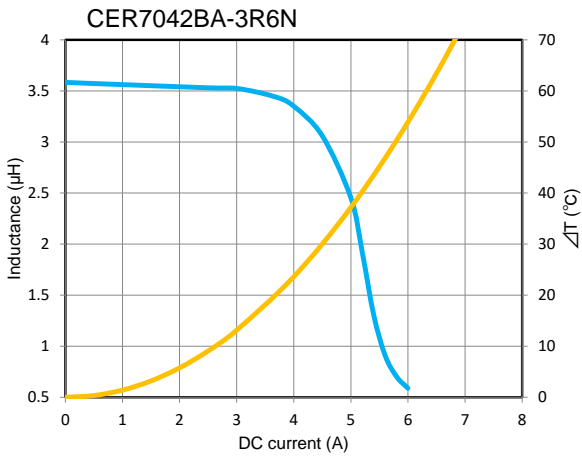
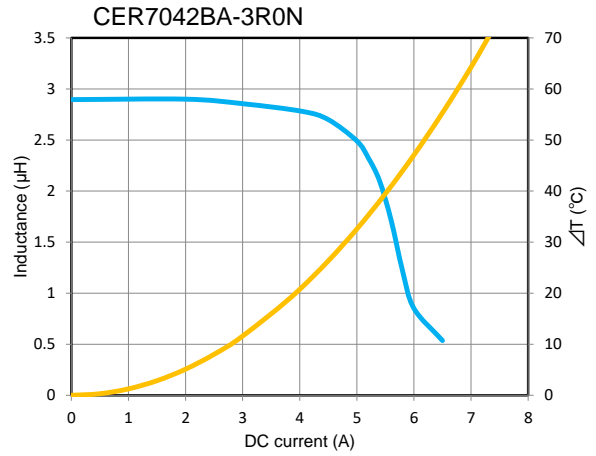
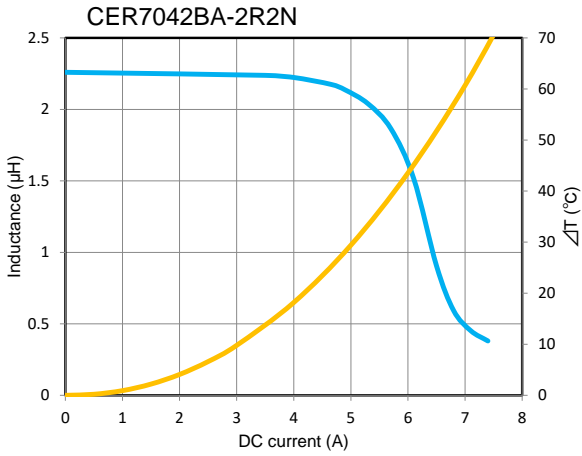
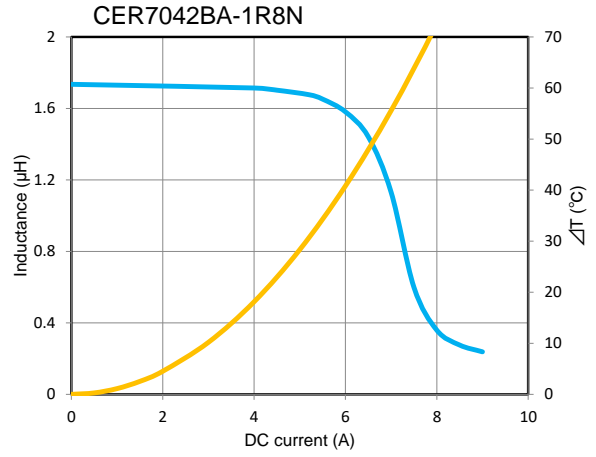
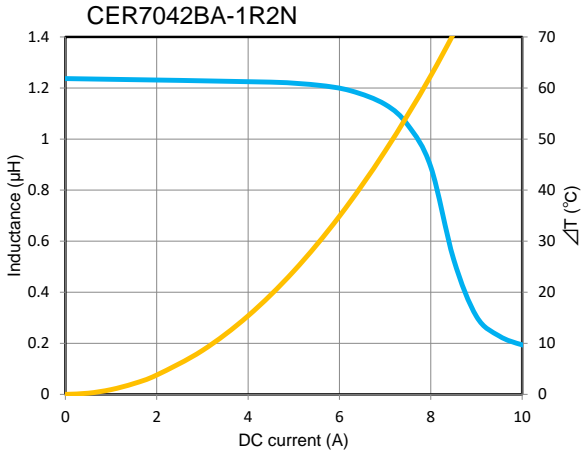
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DC bias characteristics vs Temperature Rise Graph

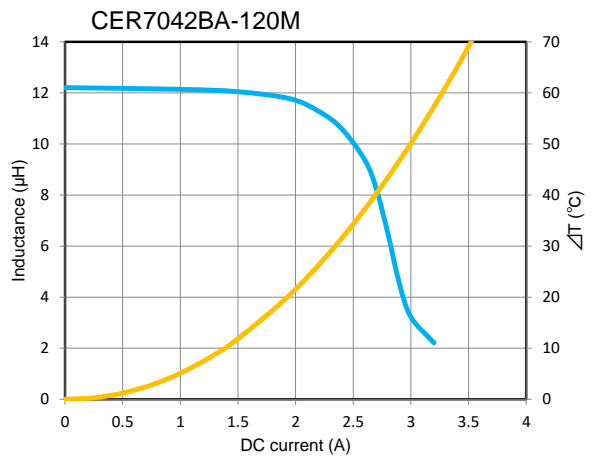
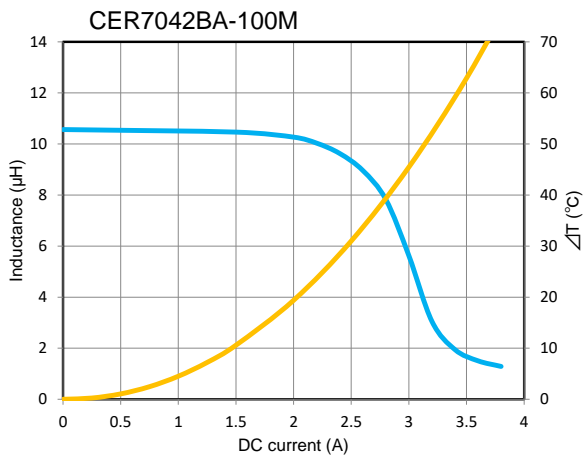
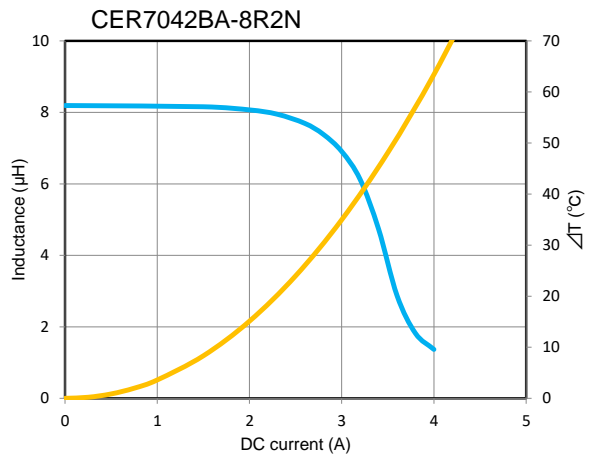
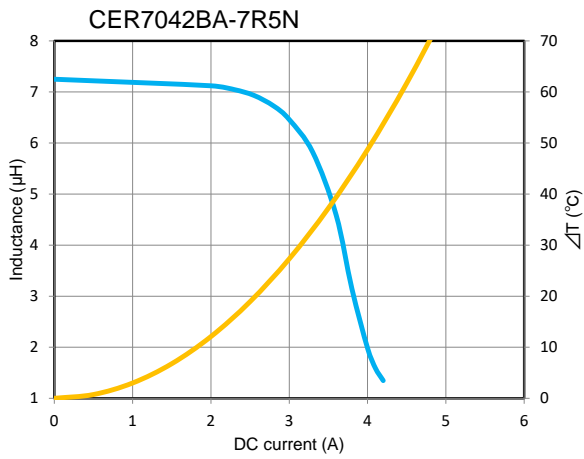
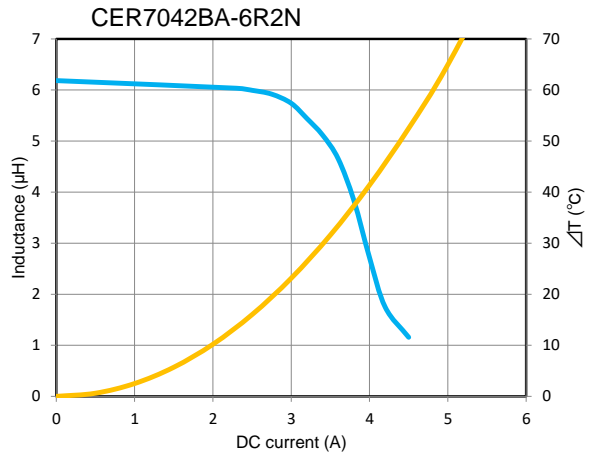
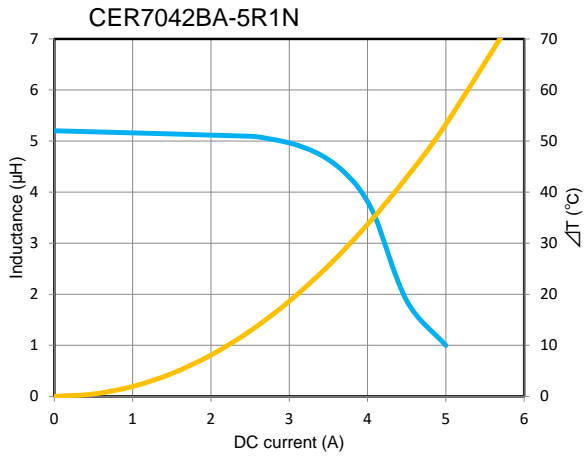
■ L(25°C) ■ ΔT



DC bias characteristics vs Temperature Rise Graph

 L(25°C)

 ΔT



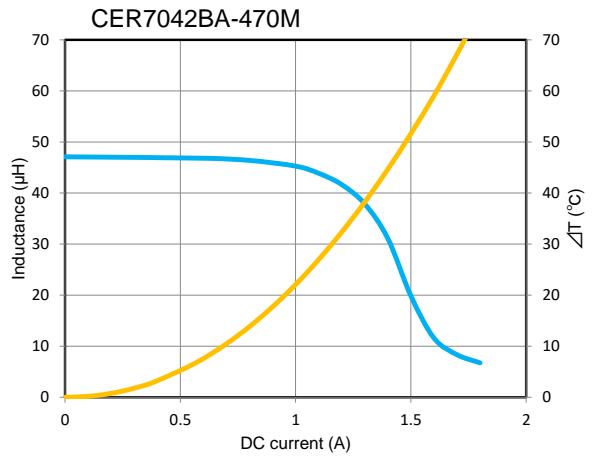
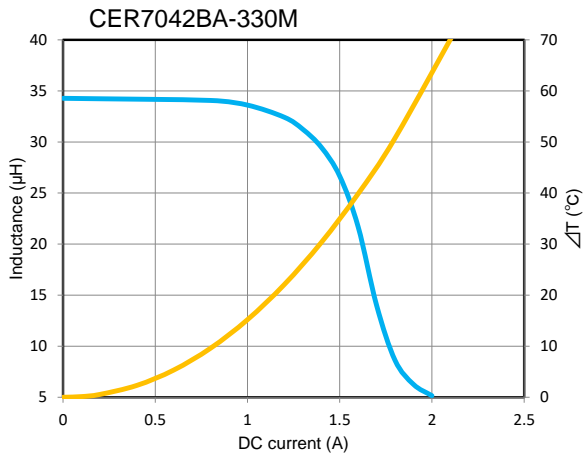
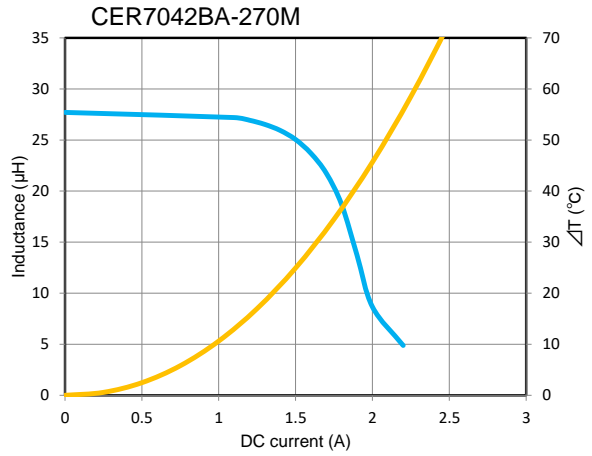
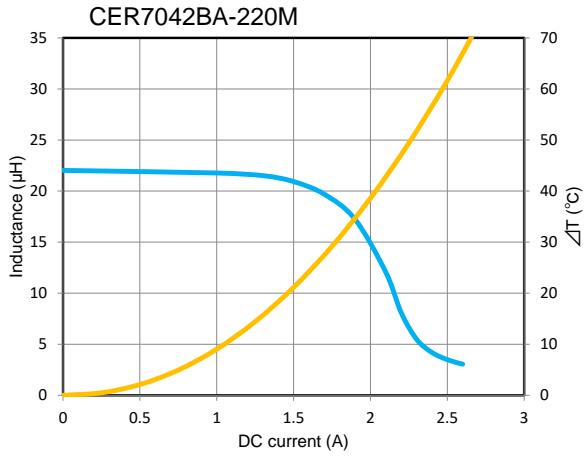
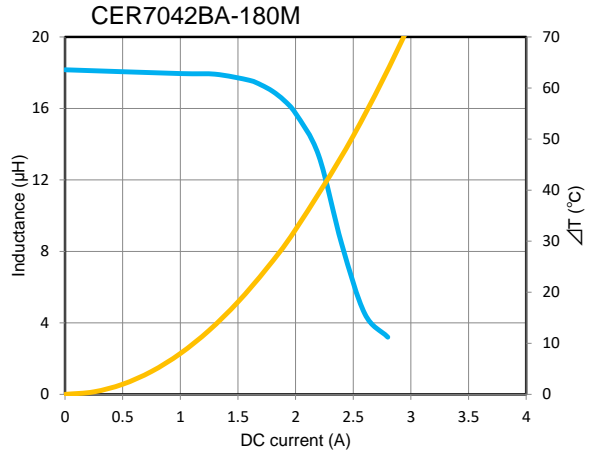
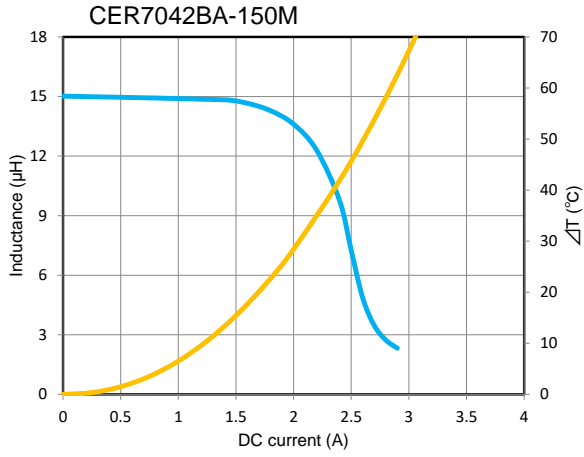
DC bias characteristics vs Temperature Rise Graph



L(25°C)



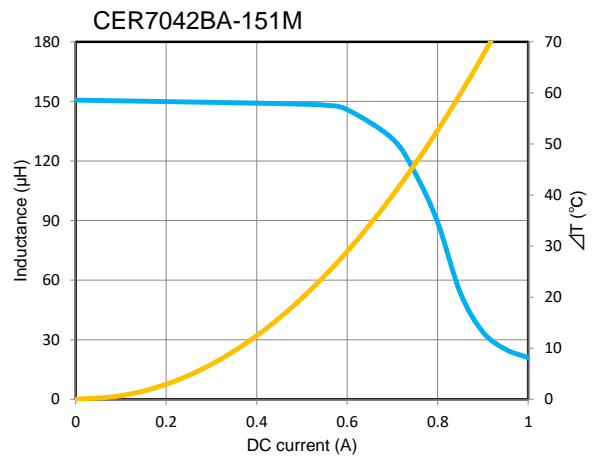
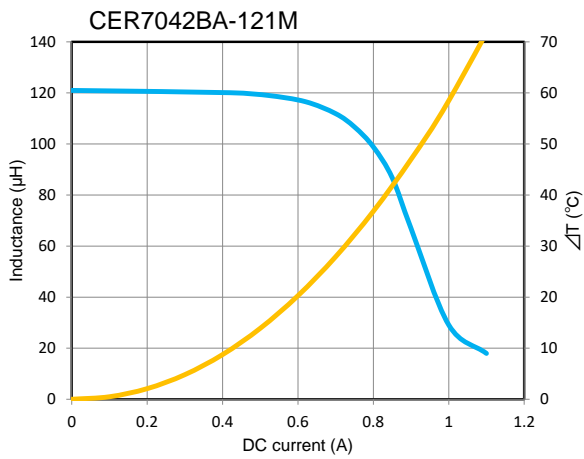
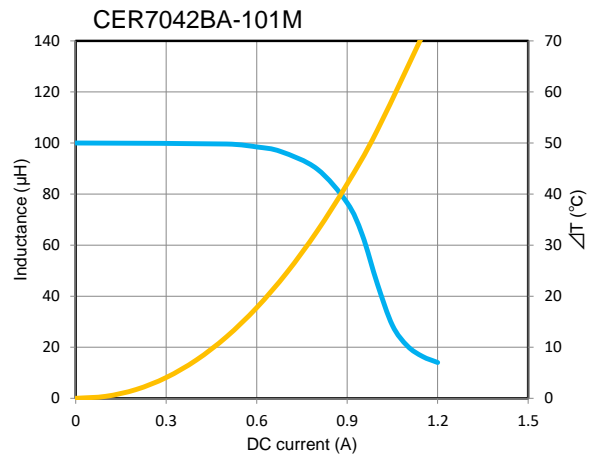
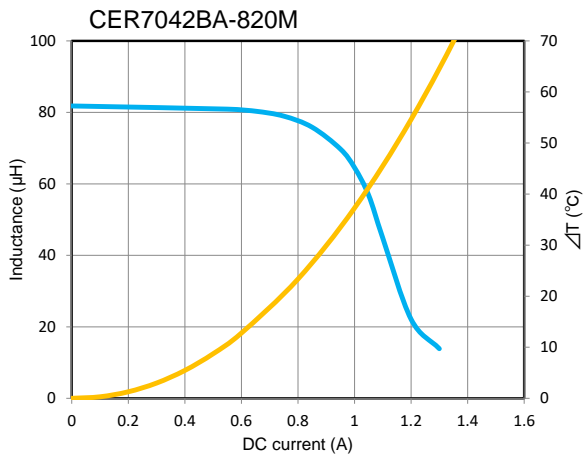
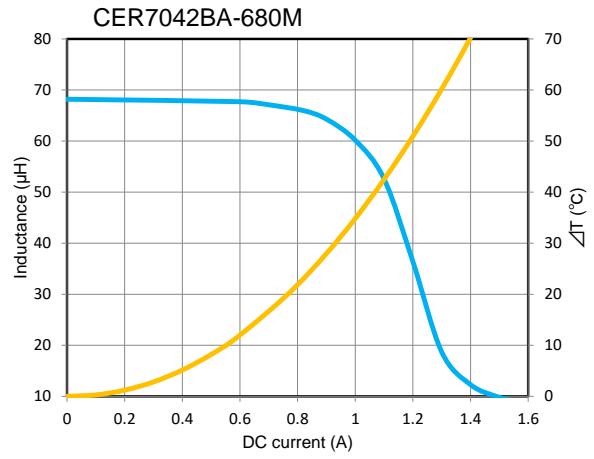
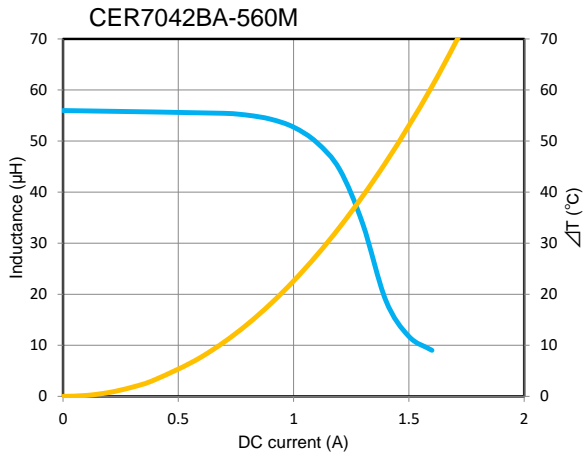
ΔT



DC bias characteristics vs Temperature Rise Graph

 L(25°C)

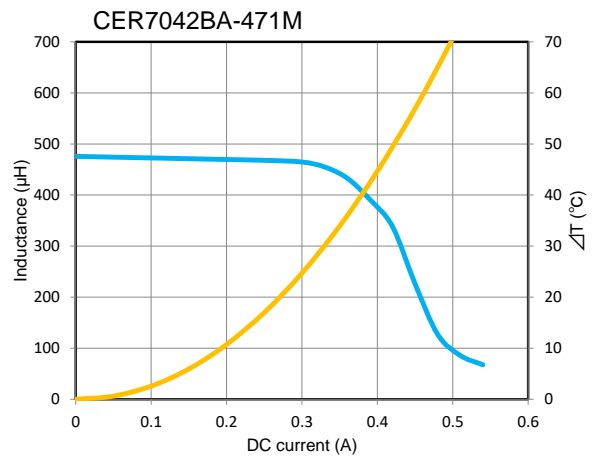
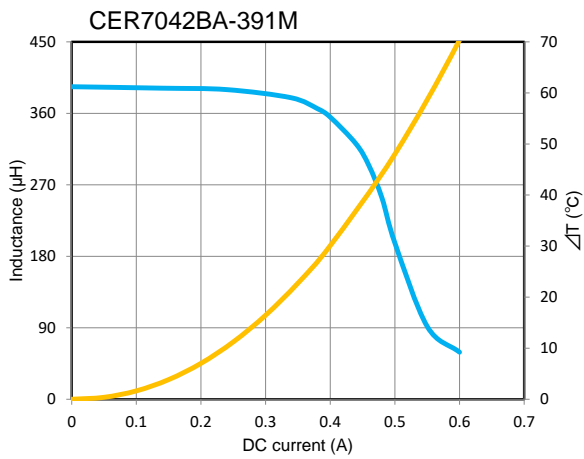
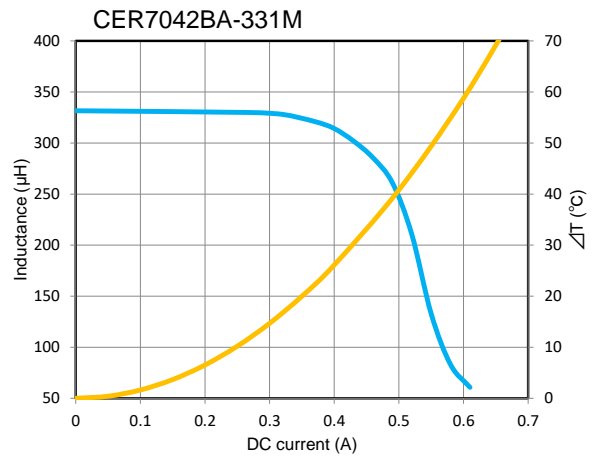
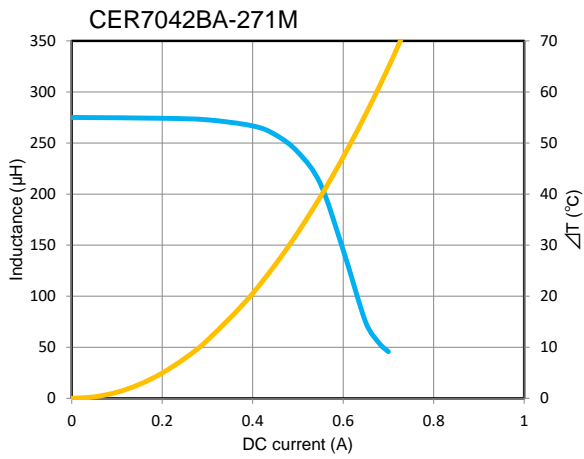
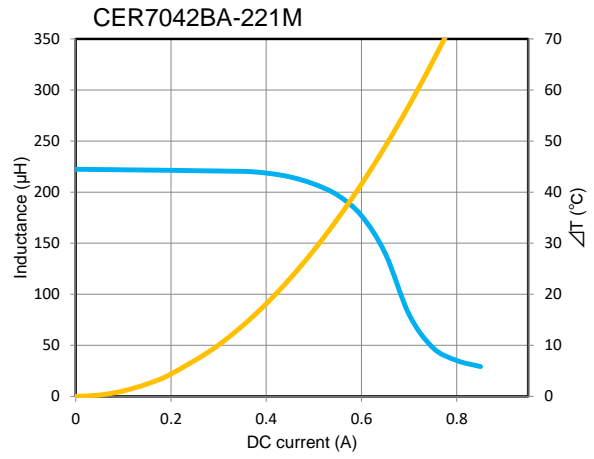
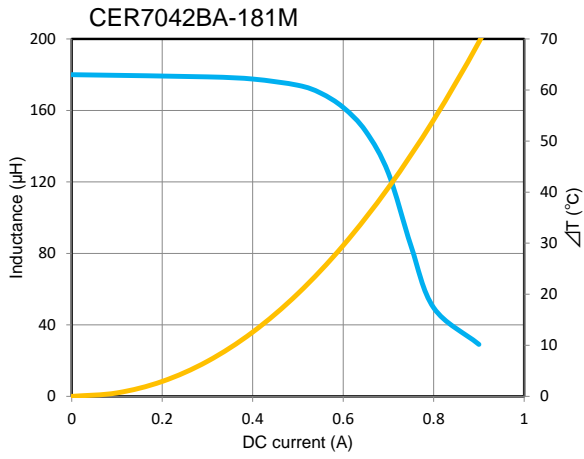
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 L(25°C)

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DC bias characteristics vs Temperature Rise Graph



L(25°C)



ΔT

