

HER8080C

AEC-Q200



■ Features

- Compact and Low profile Power Inductor for Automotive-Equipments
- Upgraded the current characteristics by using different magnetic materials for drum core and ring core separately
- * The current characteristics have been increased by approximately 20% as compared with the same sized existing product
- HER8080C realizes the current characteristic equivalent to our 10mm SQUARE coils
- HER1090C realizes the same current characteristic equivalent to our 12mm SQUARE coils
- AEC-Q200 compliant
- Operating temperature : -40°C~+150°C(The self-heating is included)

Magnetic structure :

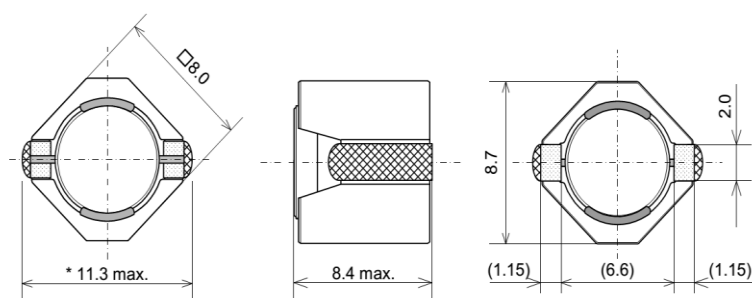


Weight : 1.8 g

■ Applications

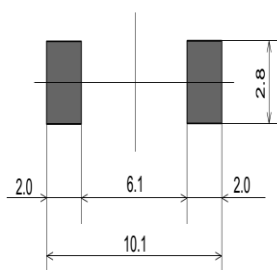
- Automotive/Car Audio,Car Navigation,ECU,LED Headlights
- Others/Power Supply,FA,Medical,Energy

■ Dimensions



(Unit : mm)

■ Recommended Land Pattern



(Unit : mm)



SAGAMI ELEC CO., LTD.
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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
HER8080C-1R5N	1.5 $\pm 30\%$	0.00700	14.5	11.5	7.73	6.30
HER8080C-2R2N	2.2 $\pm 30\%$	0.00900	12.3	9.60	7.27	5.70
HER8080C-2R7N	2.7 $\pm 30\%$	0.0100	10.4	7.80	6.85	5.30
HER8080C-3R9N	3.9 $\pm 30\%$	0.0120	9.23	7.20	6.29	4.90
HER8080C-4R7N	4.7 $\pm 30\%$	0.0140	8.00	6.10	5.89	4.60
HER8080C-5R6N	5.6 $\pm 30\%$	0.0150	7.47	5.80	5.62	4.40
HER8080C-6R8N	6.8 $\pm 30\%$	0.0170	6.83	5.20	5.26	4.20
HER8080C-8R2N	8.2 $\pm 30\%$	0.0190	6.17	4.70	5.15	4.00
HER8080C-100M	10 $\pm 20\%$	0.0200	5.60	4.20	5.08	3.80
HER8080C-120M	12 $\pm 20\%$	0.0220	5.23	3.90	4.59	3.60
HER8080C-150M	15 $\pm 20\%$	0.0260	4.87	3.60	4.24	3.30
HER8080C-180M	18 $\pm 20\%$	0.0340	4.03	3.00	3.73	2.90
HER8080C-220M	22 $\pm 20\%$	0.0500	3.70	2.90	2.95	2.40
HER8080C-270M	27 $\pm 20\%$	0.0600	3.30	2.50	2.74	2.20
HER8080C-330M	33 $\pm 20\%$	0.0800	3.07	2.35	2.54	2.00
HER8080C-390M	39 $\pm 20\%$	0.100	2.87	2.20	2.21	1.75
HER8080C-470M	47 $\pm 20\%$	0.120	2.63	2.00	1.95	1.55
HER8080C-560M	56 $\pm 20\%$	0.130	2.40	1.80	1.87	1.50
HER8080C-680M	68 $\pm 20\%$	0.150	2.13	1.55	1.74	1.40
HER8080C-820M	82 $\pm 20\%$	0.190	1.83	1.50	1.57	1.25
HER8080C-101M	100 $\pm 20\%$	0.250	1.67	1.30	1.36	1.10
HER8080C-121M	120 $\pm 20\%$	0.270	1.60	1.25	1.31	1.05
HER8080C-151M	150 $\pm 20\%$	0.300	1.47	1.10	1.20	1.00
HER8080C-181M	180 $\pm 20\%$	0.340	1.33	1.00	1.16	0.930
HER8080C-221M	220 $\pm 20\%$	0.410	1.22	0.960	1.11	0.850
HER8080C-271M	270 $\pm 20\%$	0.520	1.07	0.840	0.940	0.760
HER8080C-331M	330 $\pm 20\%$	0.710	0.970	0.770	0.810	0.650
HER8080C-391M	390 $\pm 20\%$	0.870	0.910	0.710	0.720	0.590
HER8080C-471M	470 $\pm 20\%$	1.02	0.840	0.670	0.650	0.540

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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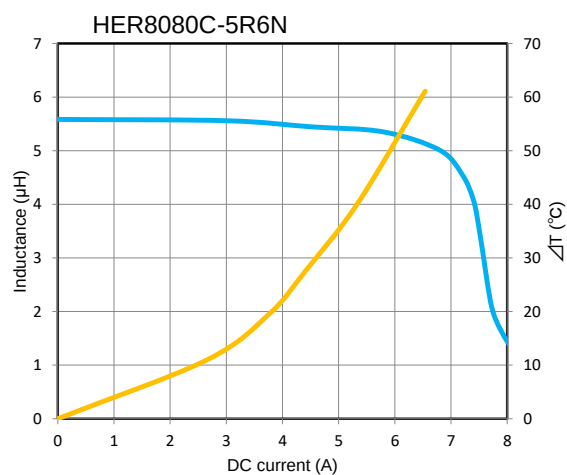
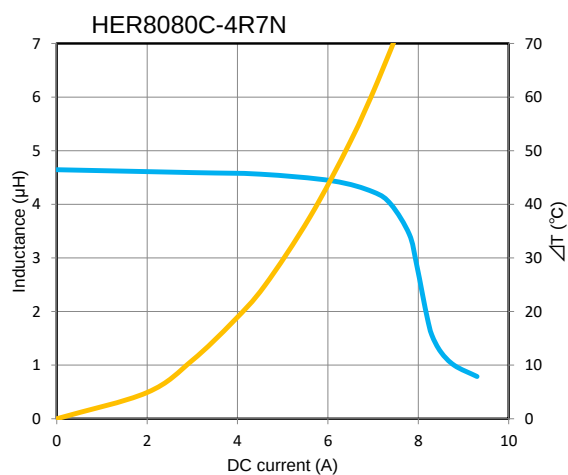
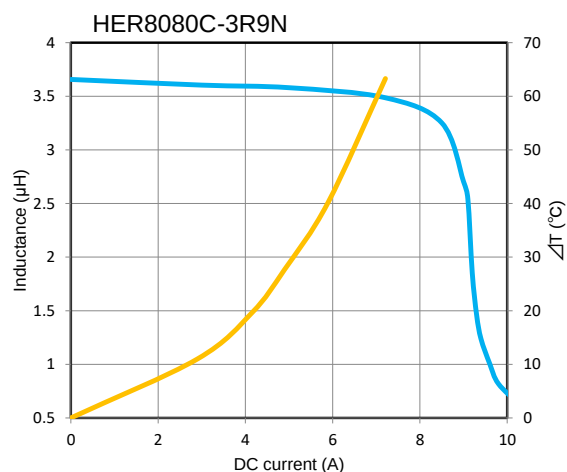
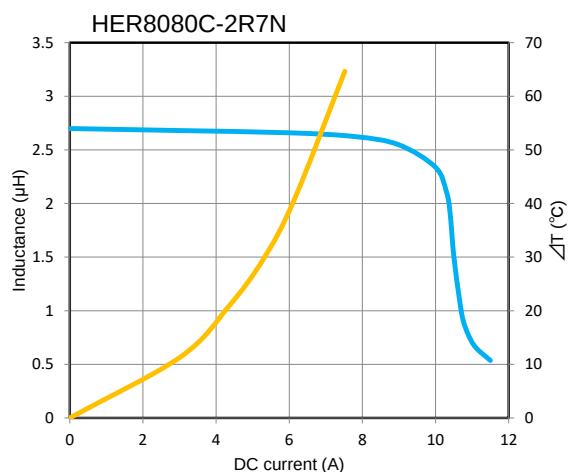
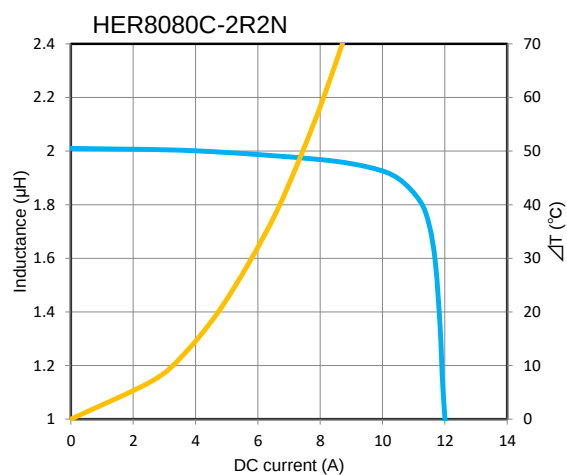
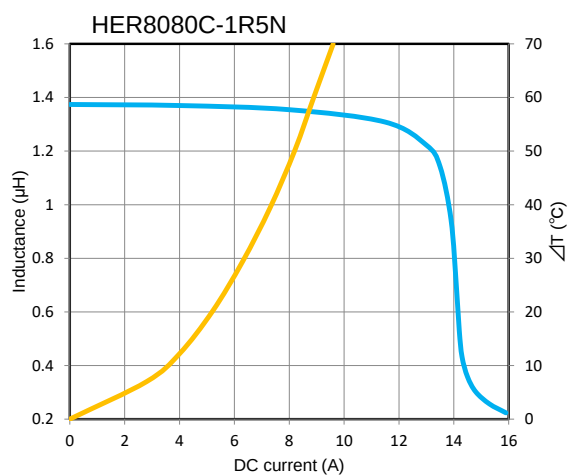
DC bias characteristics vs Temperature Rise Graph



L(25°C)

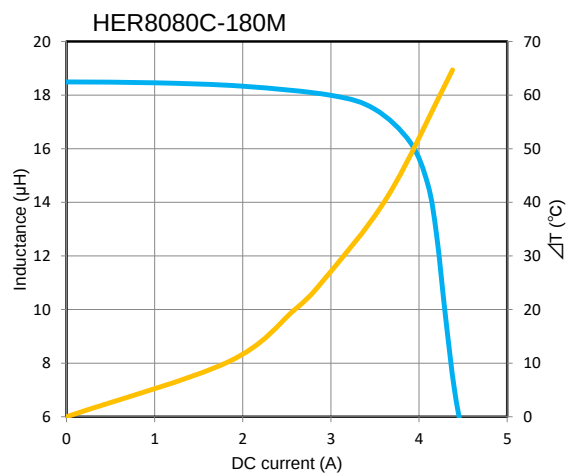
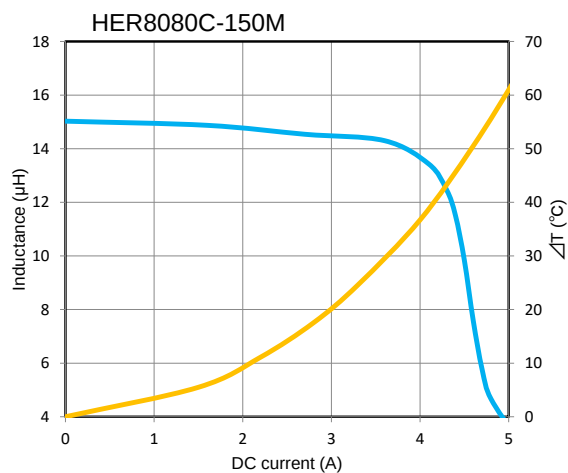
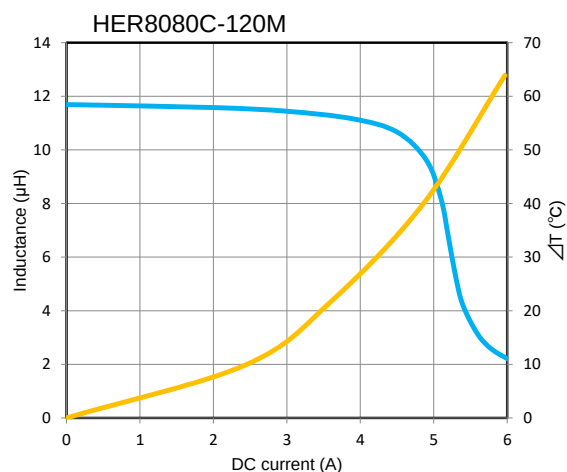
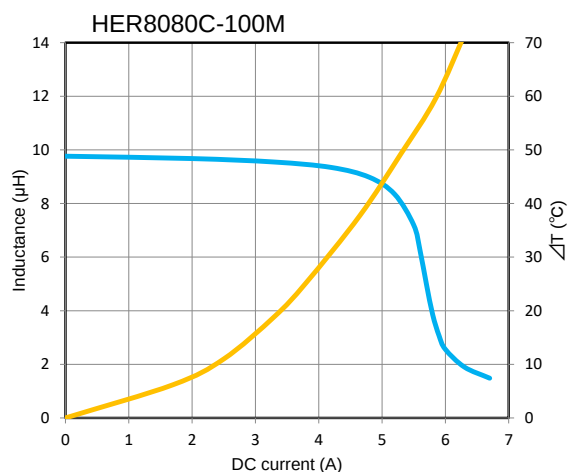
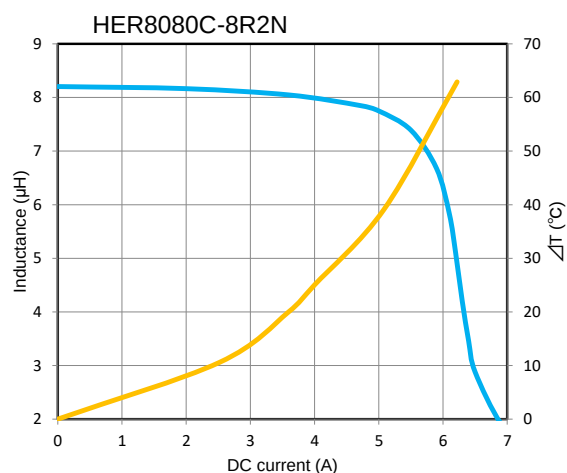
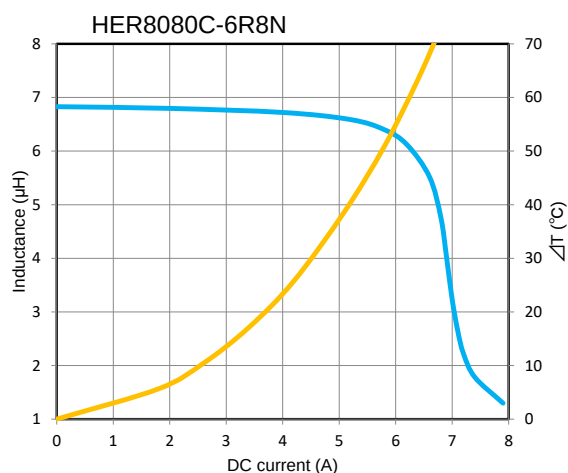


ΔT



DC bias characteristics vs Temperature Rise Graph

— $L(25^{\circ}\text{C})$
— ΔT



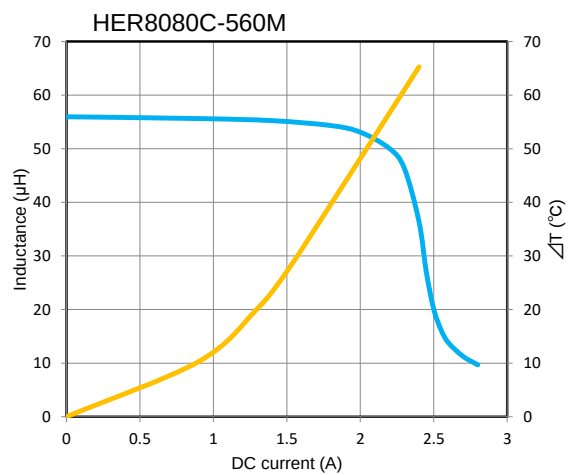
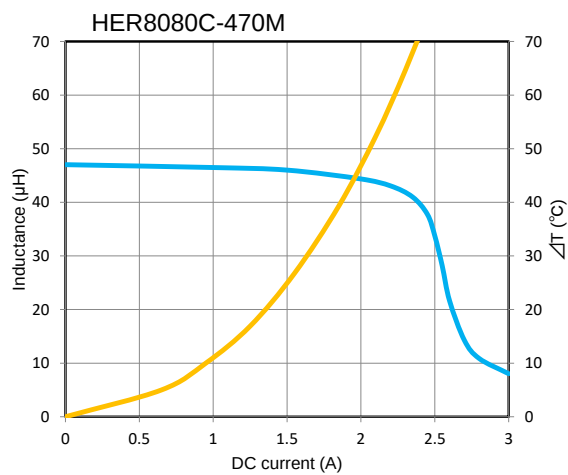
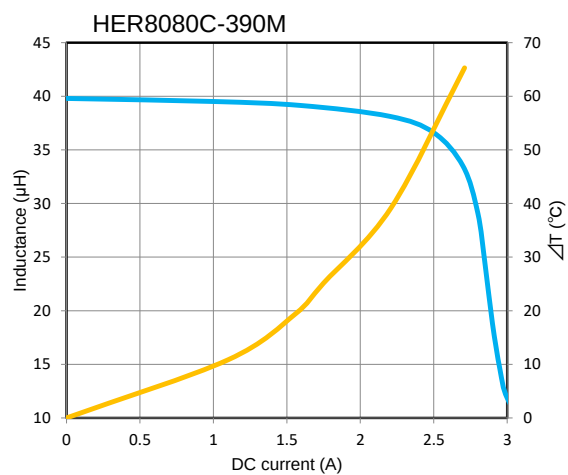
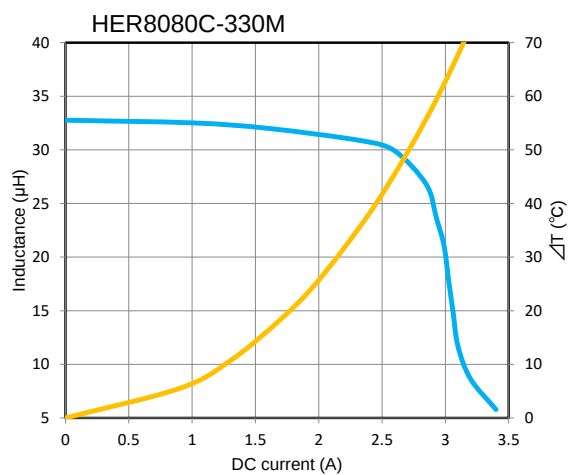
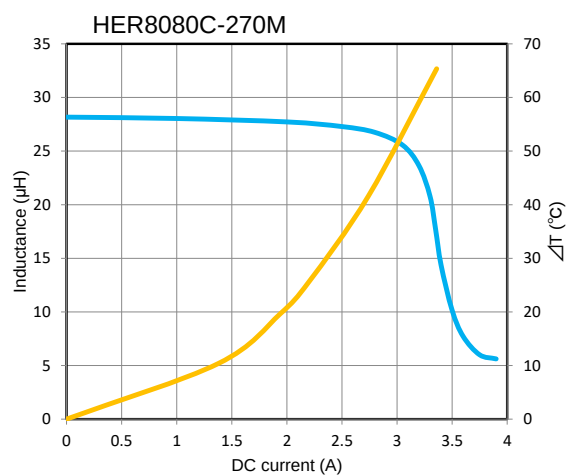
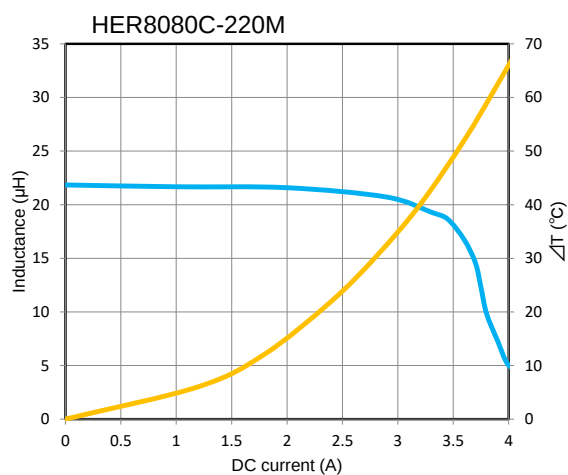
DC bias characteristics vs Temperature Rise Graph



L(25°C)



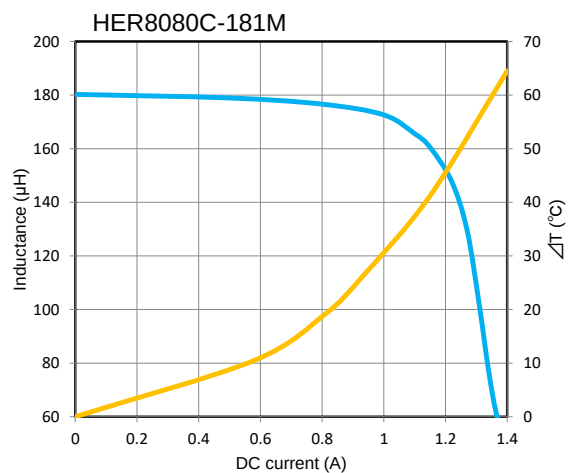
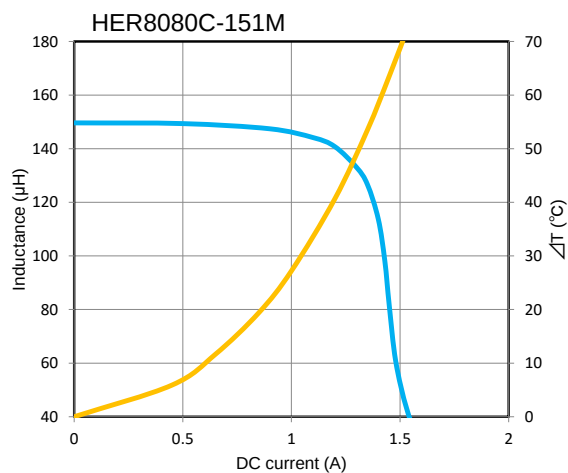
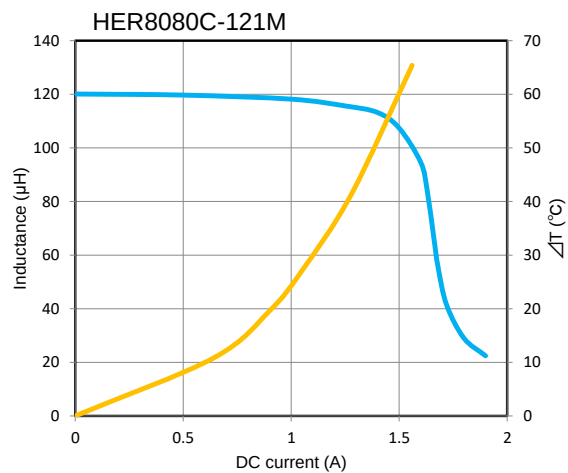
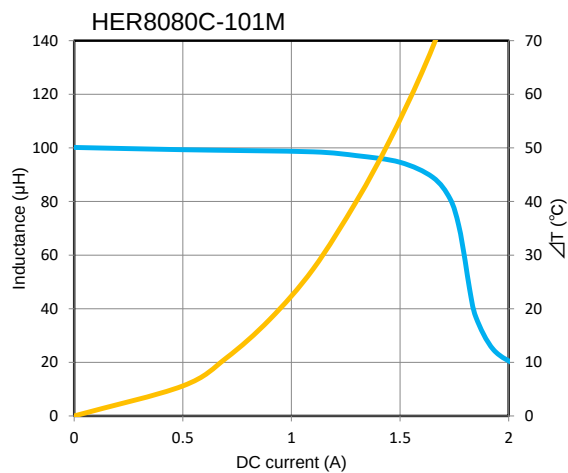
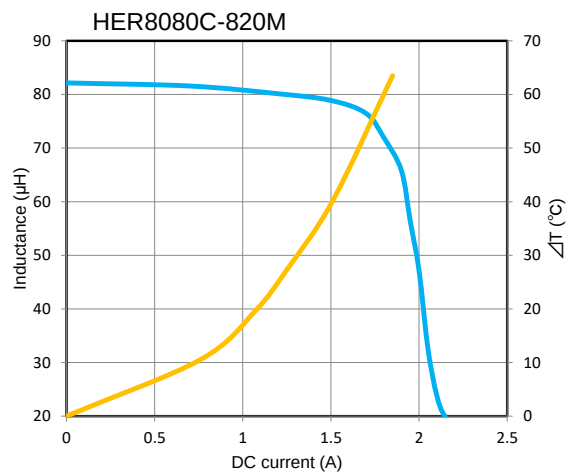
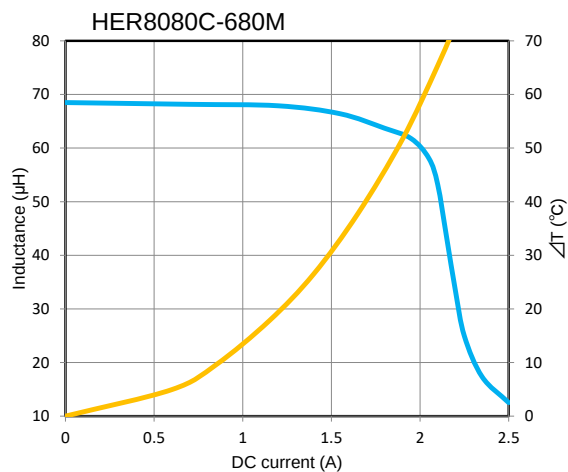
ΔT



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DC bias characteristics vs Temperature Rise Graph

— L(25°C)
 — ΔT



DC bias characteristics vs Temperature Rise Graph

— $L(25^{\circ}\text{C})$
— ΔT

