

HER5027C

AEC-Q200



■ Features

- High reliability available for automotive application.
- High current
- SMD magnetic shielded type of power inductor.
- Suitable for power supply choke coil.
- AEC-Q200 compliant
- Operating temperature : $-40^{\circ}\text{C}\sim+150^{\circ}\text{C}$ (The self-heating is included)

Magnetic structure :

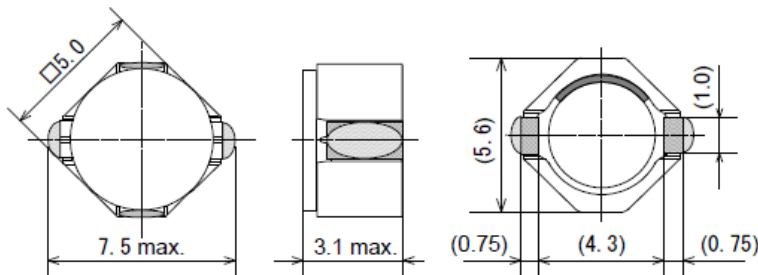


Weight : 0.24 g

■ Applications

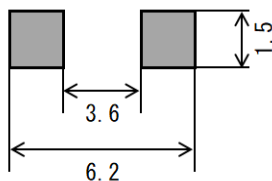
- Automotive/Car Audio,Car Navigation,ECU,LED Headlights
- Others/Power Supply,FA

■ Dimensions



(Unit : mm)

■ Recommended Land Pattern



(Unit : mm)



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

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■ Specifications

SAGAMI Part No.	Inductance (μH)	DCR (Ω) $\pm 30\%$	DC Saturation Allowable Current (A)	Temperature Rise Allowable Current (A)
HER5027C-1R0N	1 $\pm 30\%$	0.00900	5.50	5.30
HER5027C-1R5N	1.5 $\pm 30\%$	0.0120	4.50	4.75
HER5027C-2R0N	2 $\pm 30\%$	0.0160	3.85	3.65
HER5027C-3R0N	3 $\pm 30\%$	0.0210	3.35	3.40
HER5027C-3R6N	3.6 $\pm 30\%$	0.0290	2.85	2.82
HER5027C-4R3N	4.3 $\pm 30\%$	0.0380	2.70	2.45
HER5027C-5R6N	5.6 $\pm 30\%$	0.0450	2.45	2.25
HER5027C-6R2N	6.2 $\pm 30\%$	0.0630	2.15	1.90
HER5027C-7R5N	7.5 $\pm 30\%$	0.0750	2.00	1.70
HER5027C-100M	10 $\pm 20\%$	0.0910	1.70	1.55
HER5027C-120M	12 $\pm 20\%$	0.0980	1.60	1.45
HER5027C-150M	15 $\pm 20\%$	0.120	1.40	1.30
HER5027C-180M	18 $\pm 20\%$	0.130	1.30	1.25
HER5027C-220M	22 $\pm 20\%$	0.150	1.15	1.15
HER5027C-270M	27 $\pm 20\%$	0.190	1.05	1.00
HER5027C-330M	33 $\pm 20\%$	0.230	1.00	0.950
HER5027C-390M	39 $\pm 20\%$	0.300	0.900	0.800
HER5027C-470M	47 $\pm 20\%$	0.390	0.800	0.700
HER5027C-560M	56 $\pm 20\%$	0.470	0.700	0.630
HER5027C-680M	68 $\pm 20\%$	0.590	0.650	0.560
HER5027C-820M	82 $\pm 20\%$	0.670	0.600	0.520
HER5027C-101M	100 $\pm 20\%$	0.750	0.550	0.490
HER5027C-121M	120 $\pm 20\%$	0.840	0.450	0.460
HER5027C-151M	150 $\pm 20\%$	1.12	0.400	0.390
HER5027C-181M	180 $\pm 20\%$	1.26	0.350	0.370

Inductance Measuring Condition:100kHz,1V(<10 μH), 1kHz,1V($\geq 10\mu\text{H}$)

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



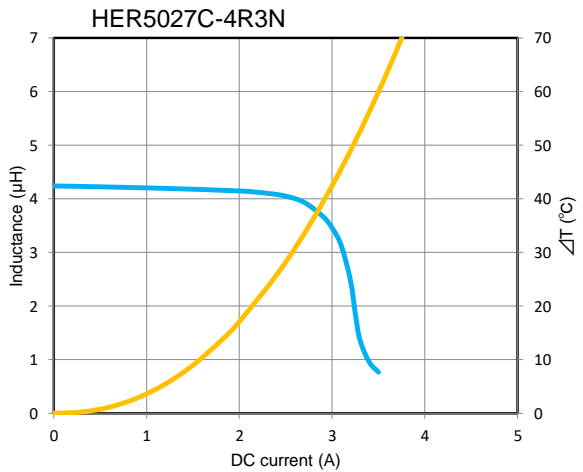
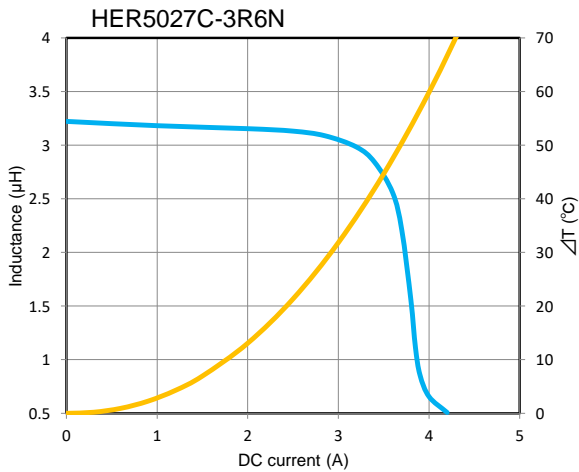
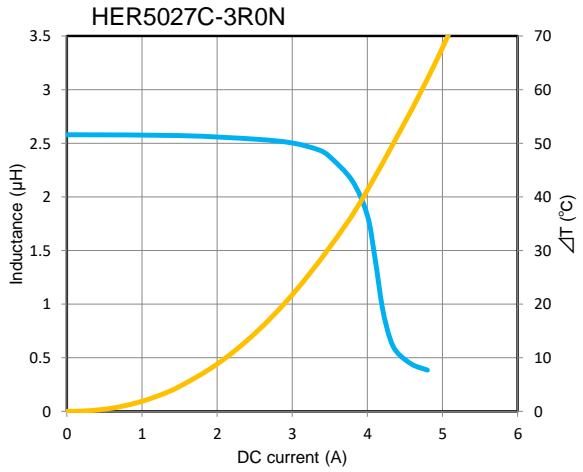
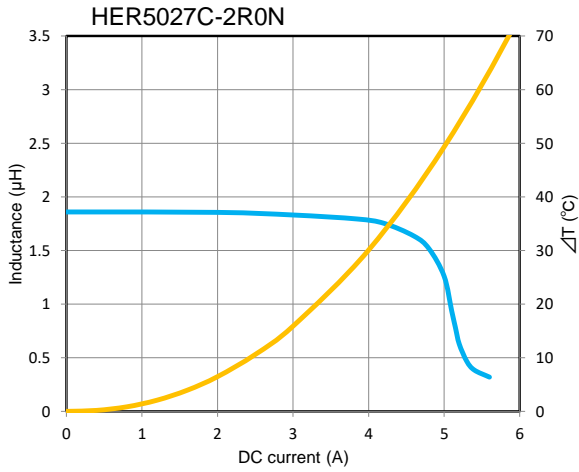
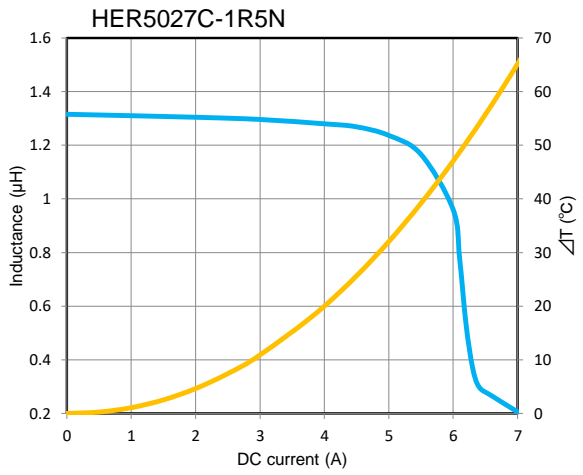
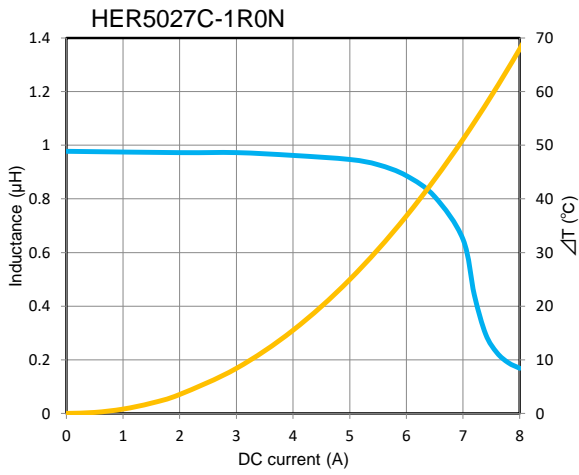
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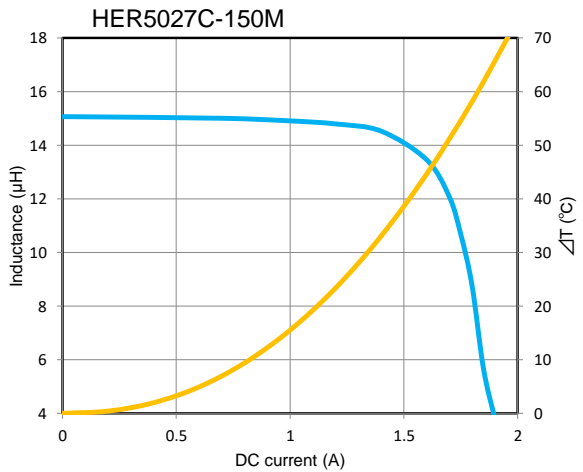
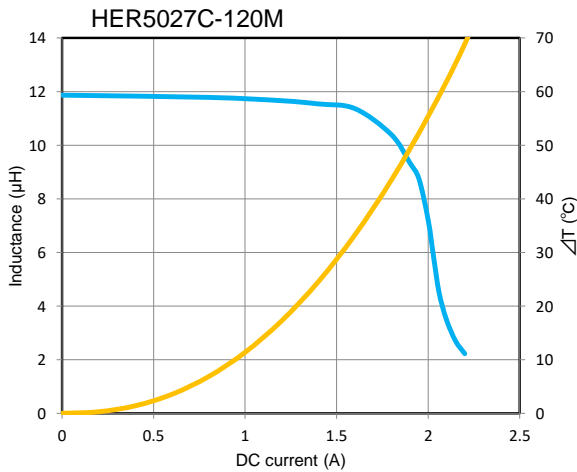
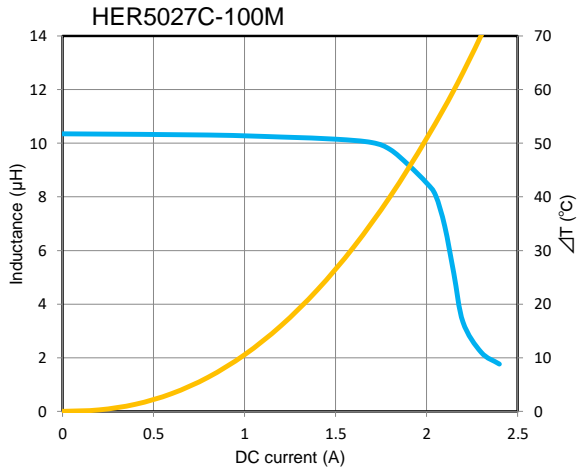
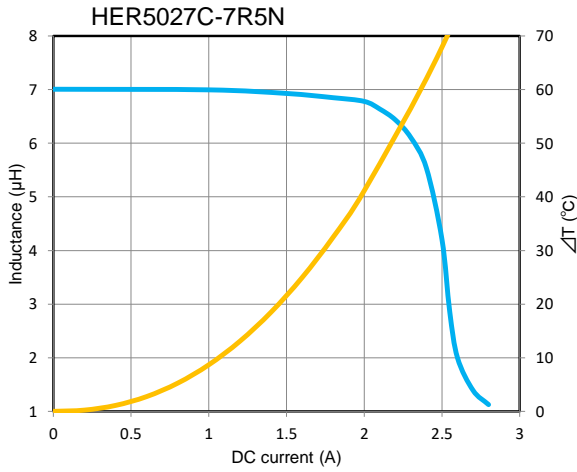
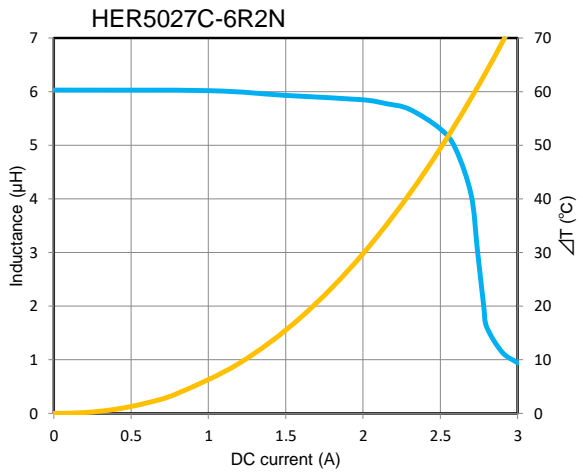
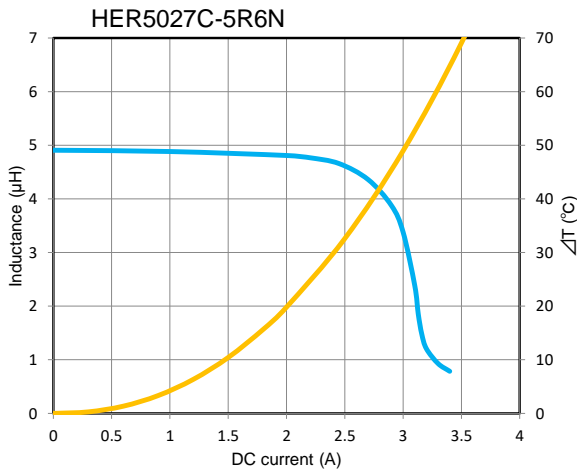
DC bias characteristics vs Temperature Rise Graph

■ L(25°C) ■ ΔT



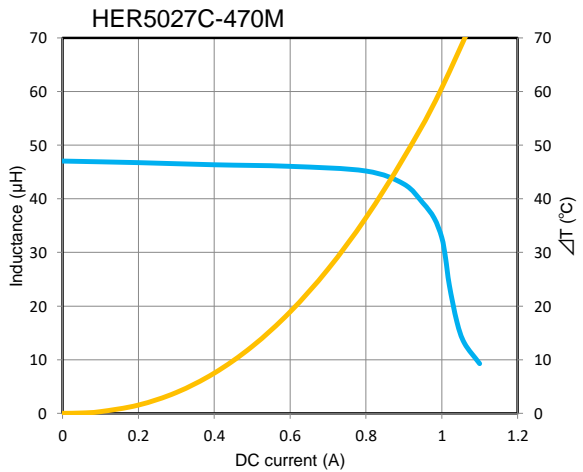
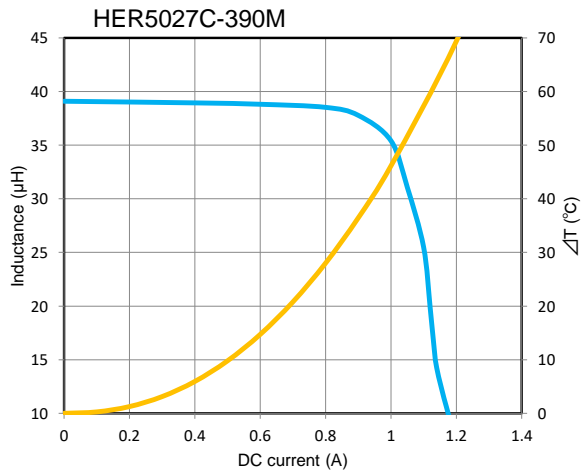
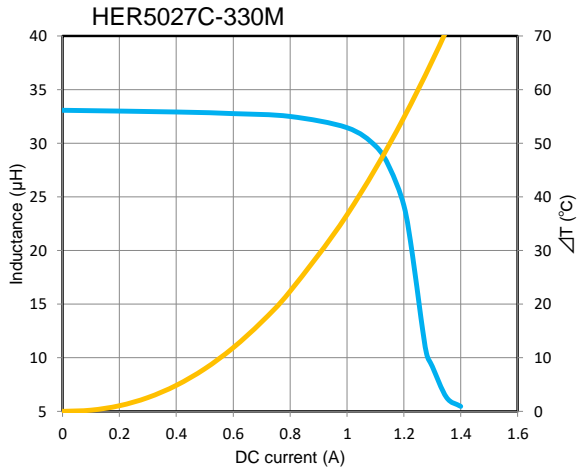
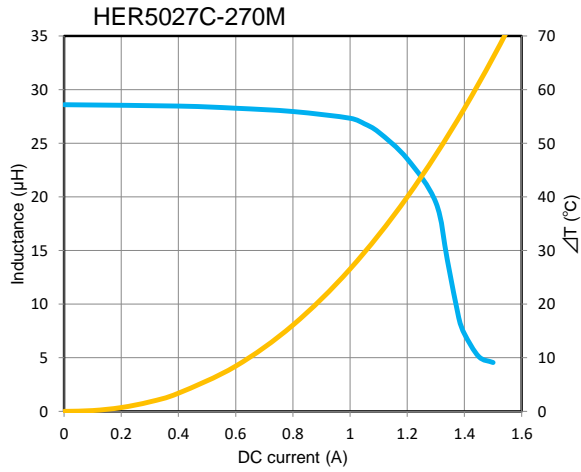
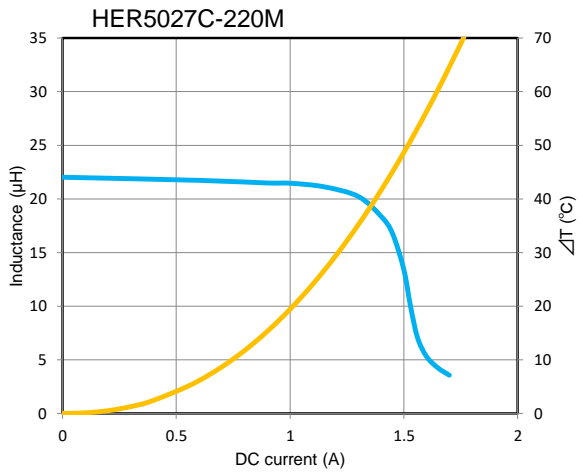
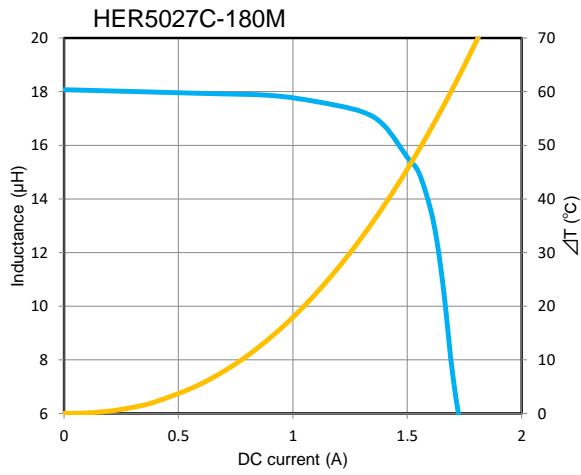
DC bias characteristics vs Temperature Rise Graph

■ $L(25^{\circ}\text{C})$
■ ΔT



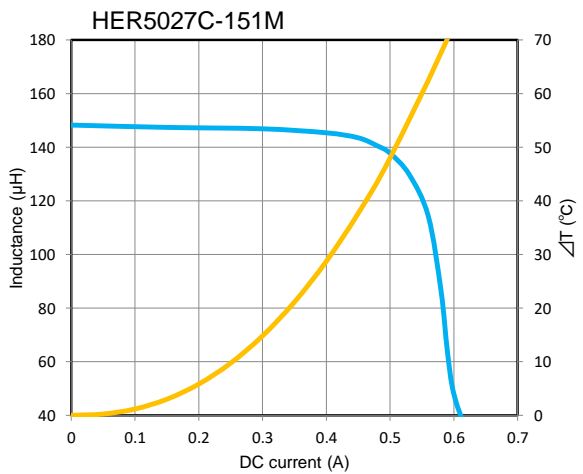
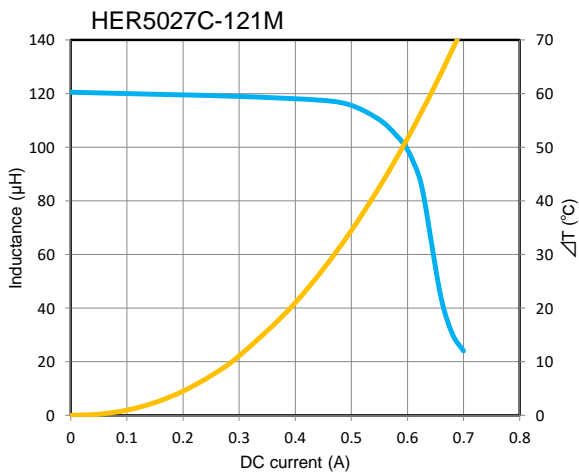
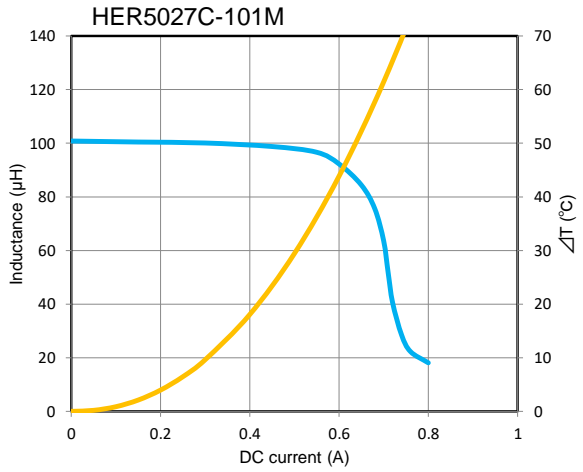
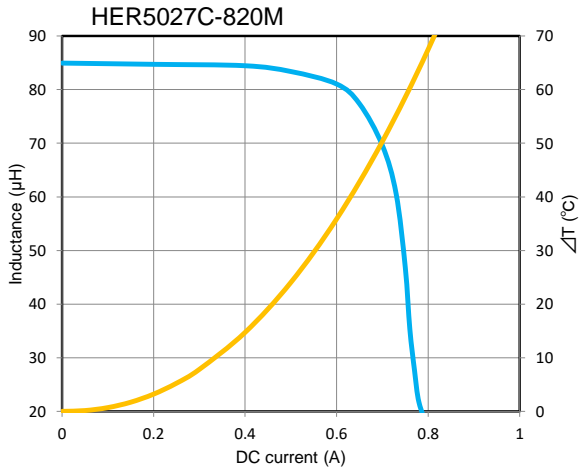
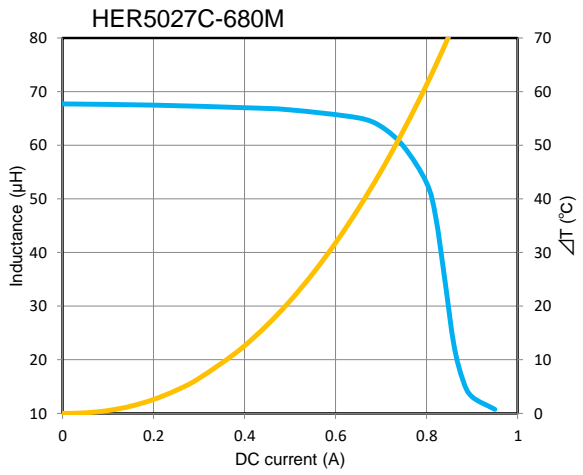
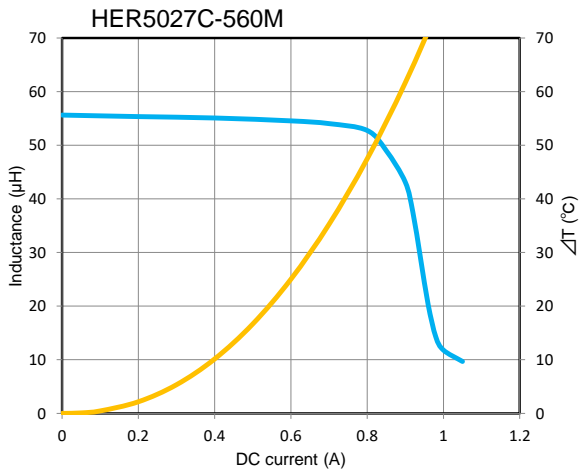
DC bias characteristics vs Temperature Rise Graph

■ L(25°C) ■ ΔT



DC bias characteristics vs Temperature Rise Graph

■ $L(25^{\circ}\text{C})$
■ ΔT



DC bias characteristics vs Temperature Rise Graph

■ $L(25^{\circ}\text{C})$ ■ ΔT

