

HER5027



■ Features

- High current
- SMD magnetic shielded type of power inductor.
- Suitable for power supply choke coil.
- Operating temperature : -40°C~+125°C(The self-heating is included)

Magnetic structure :

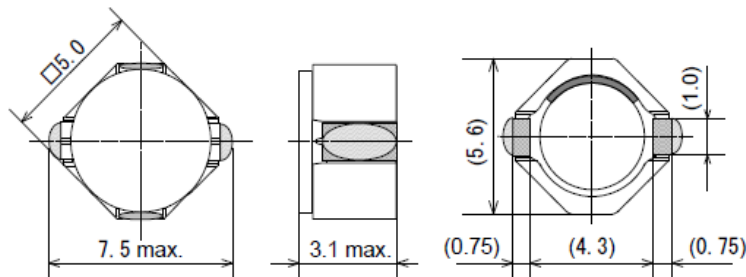


Weight : 0.24 g

■ Applications

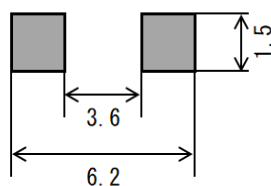
- Audio Visual/Camera,TV and Monitor,Portable Audio
- Computer & Peripheral Device/Computer,Printer(MFP)
- Others/FA,Medical,Energy,Power Supply,Transceivers

■ Dimensions



(Unit : mm)

■ Recommended Land Pattern



(Unit : mm)



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

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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 (mA)	Temperature Rise Allowable Current (mA)
HER5027-1R0N	1 $\pm 30\%$	0.00900	5.50	5.30
HER5027-1R5N	1.5 $\pm 30\%$	0.0120	4.50	4.75
HER5027-2R0N	2 $\pm 30\%$	0.0160	3.85	3.65
HER5027-3R0N	3 $\pm 30\%$	0.0210	3.35	3.40
HER5027-3R6N	3.6 $\pm 30\%$	0.0290	2.85	2.82
HER5027-4R3N	4.3 $\pm 30\%$	0.0380	2.70	2.45
HER5027-5R6N	5.6 $\pm 30\%$	0.0450	2.45	2.25
HER5027-6R2N	6.2 $\pm 30\%$	0.0630	2.15	1.90
HER5027-7R5N	7.5 $\pm 30\%$	0.0750	2.00	1.70
HER5027-100M	10 $\pm 20\%$	0.0910	1.70	1.55
HER5027-120M	12 $\pm 20\%$	0.0980	1.60	1.45
HER5027-150M	15 $\pm 20\%$	0.120	1.40	1.30
HER5027-180M	18 $\pm 20\%$	0.130	1.30	1.25
HER5027-220M	22 $\pm 20\%$	0.150	1.15	1.15
HER5027-270M	27 $\pm 20\%$	0.190	1.05	1.00
HER5027-330M	33 $\pm 20\%$	0.230	1.00	0.950
HER5027-390M	39 $\pm 20\%$	0.300	0.900	0.800
HER5027-470M	47 $\pm 20\%$	0.390	0.800	0.700
HER5027-560M	56 $\pm 20\%$	0.470	0.700	0.630
HER5027-680M	68 $\pm 20\%$	0.590	0.650	0.560
HER5027-820M	82 $\pm 20\%$	0.670	0.600	0.520
HER5027-101M	100 $\pm 20\%$	0.750	0.550	0.490
HER5027-121M	120 $\pm 20\%$	0.840	0.450	0.460
HER5027-151M	150 $\pm 20\%$	1.12	0.400	0.390
HER5027-181M	180 $\pm 20\%$	1.26	0.350	0.370

Inductance Measuring Condition:100kHz,1V(<10 μ H)、1kHz,1V($\geq 10\mu$ 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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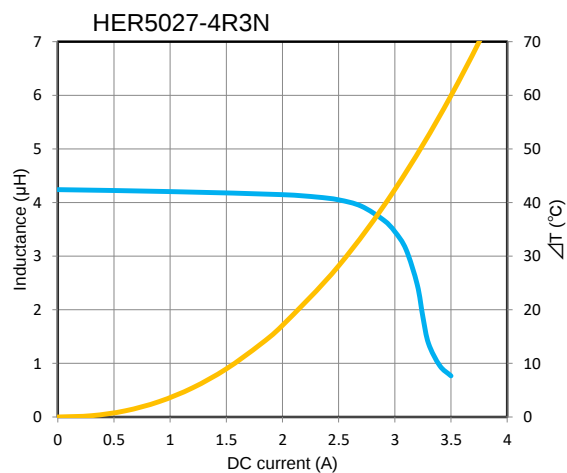
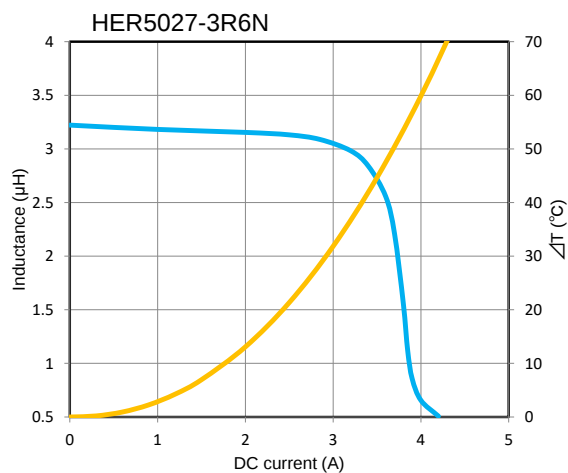
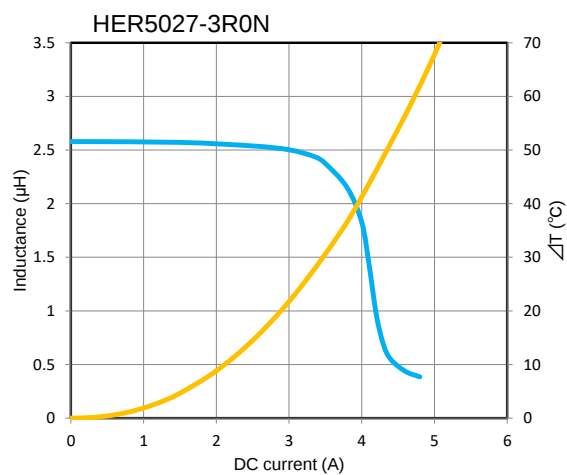
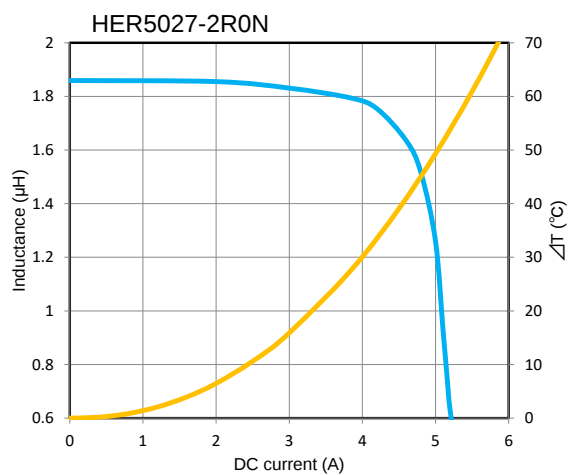
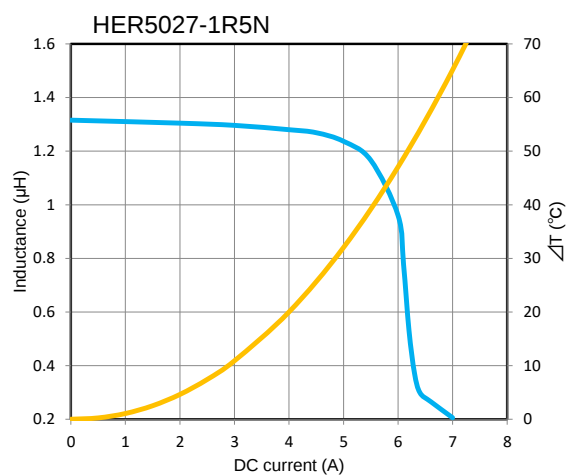
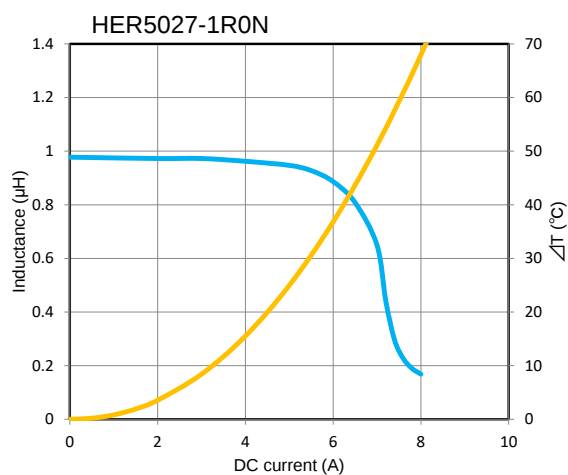
DC bias characteristics vs Temperature Rise Graph



L(25°C)



ΔT



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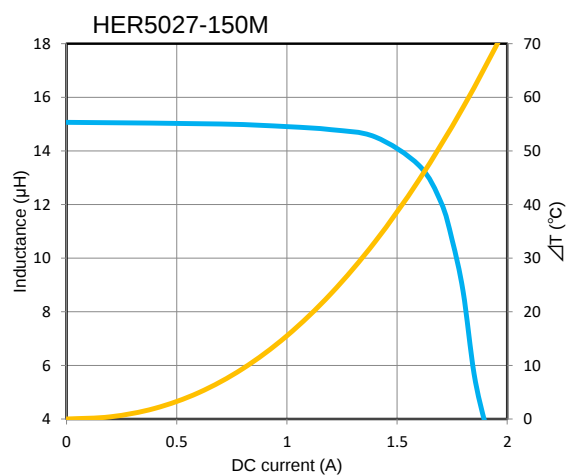
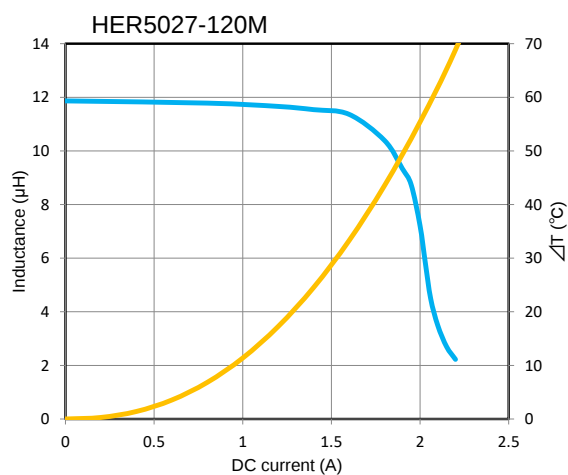
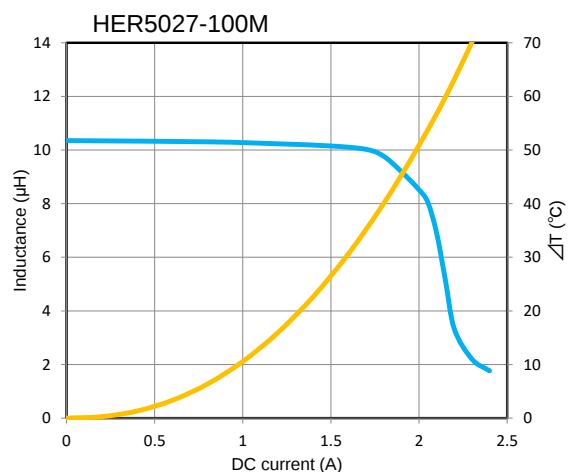
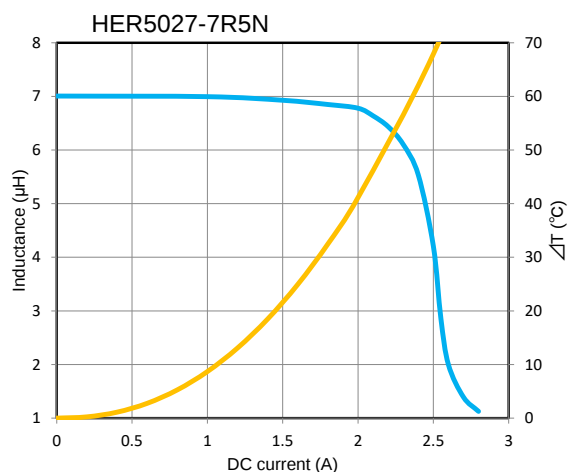
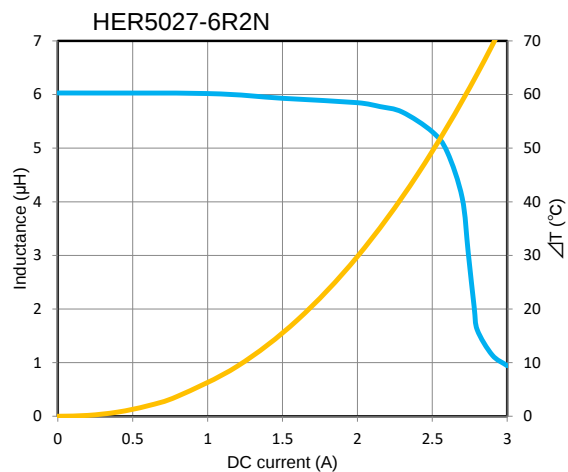
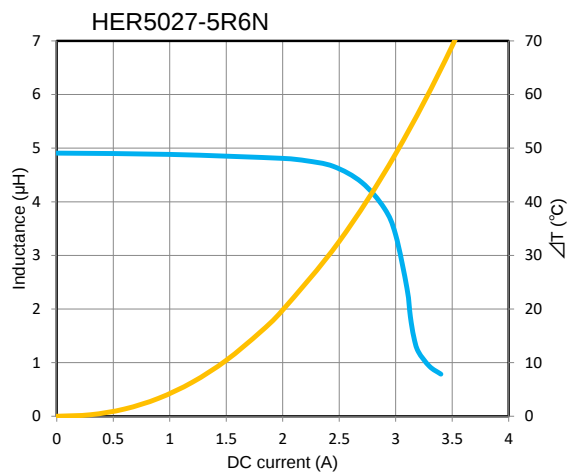
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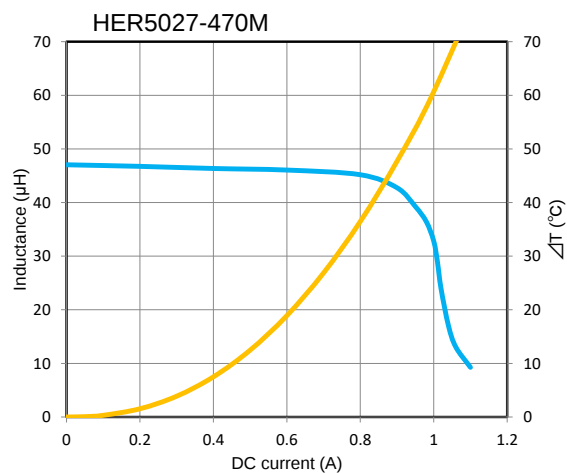
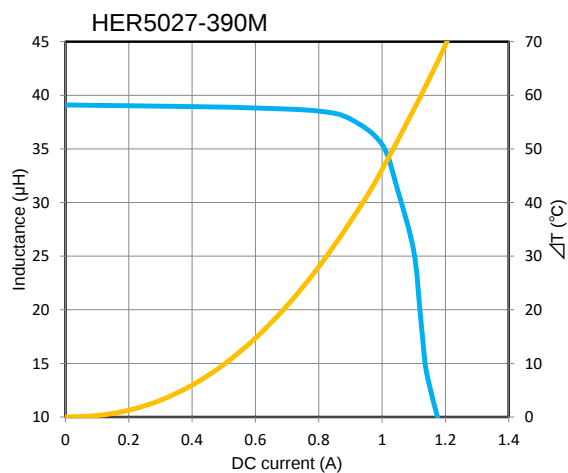
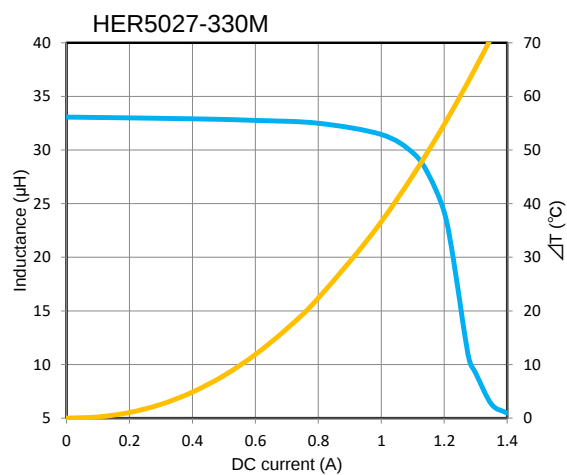
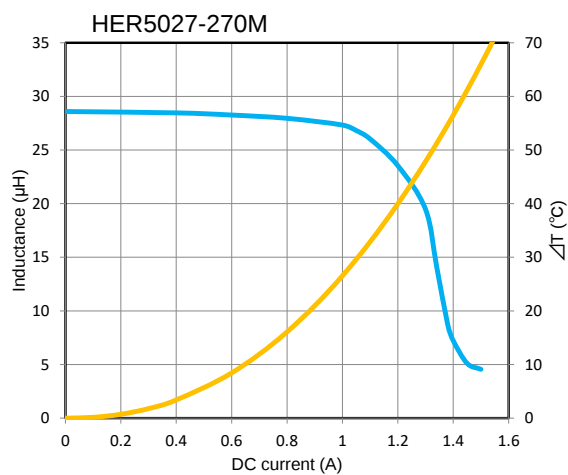
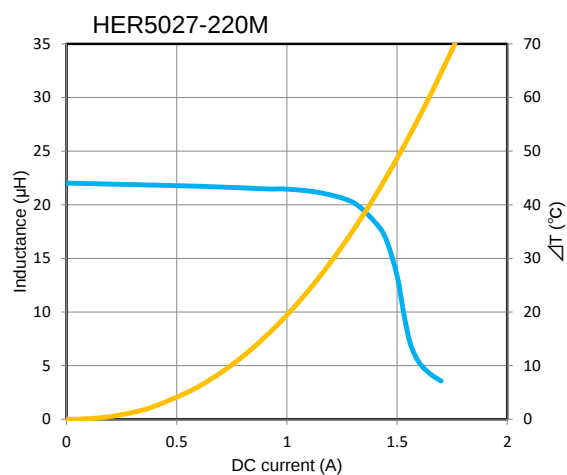
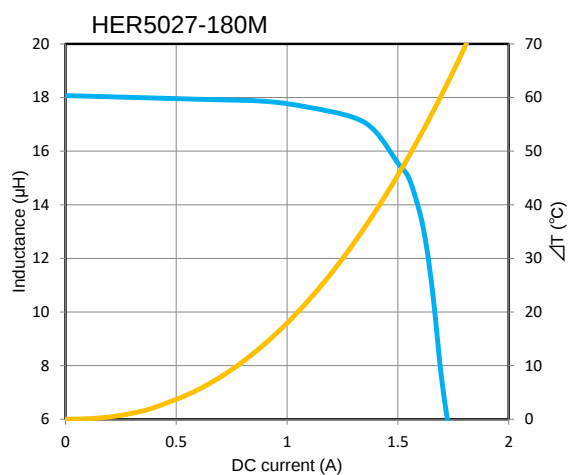
DC bias characteristics vs Temperature Rise Graph



L(25°C)



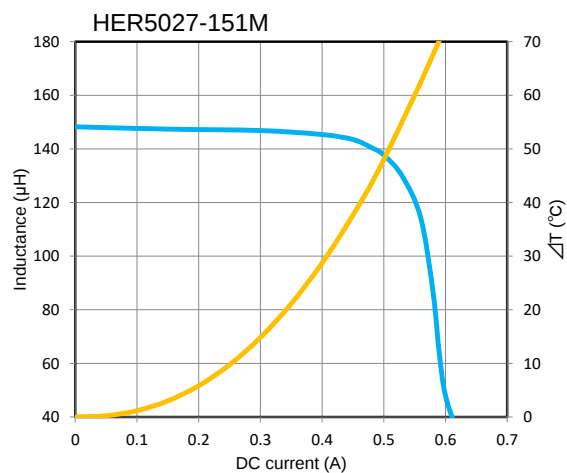
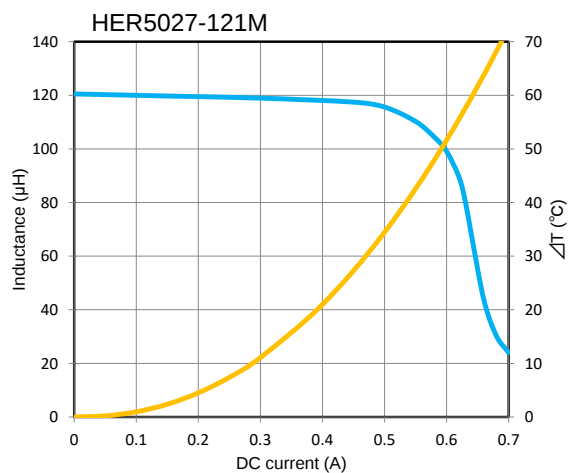
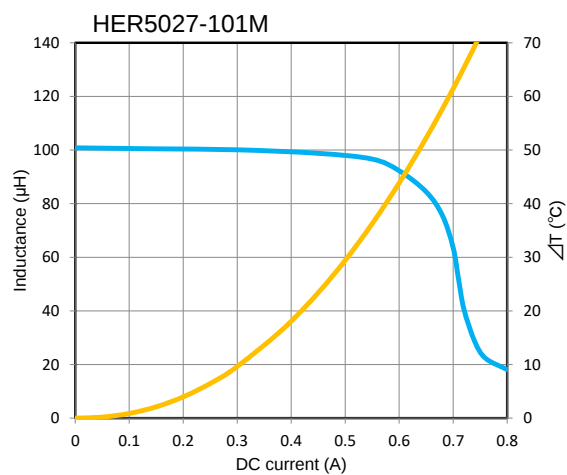
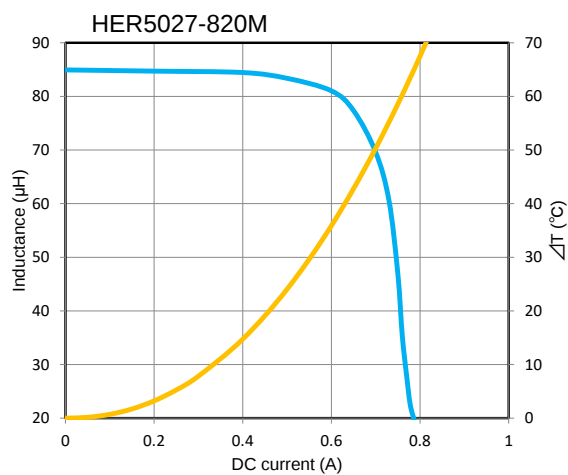
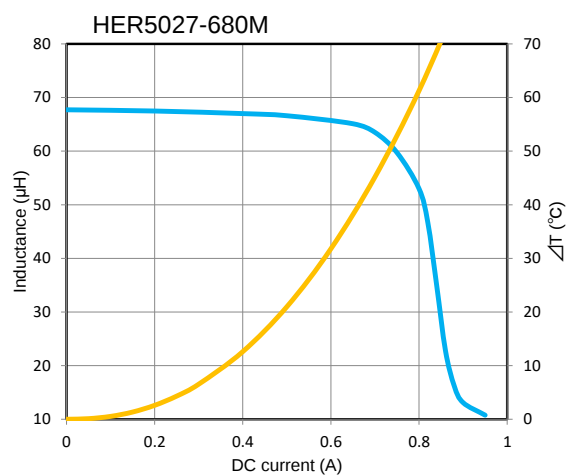
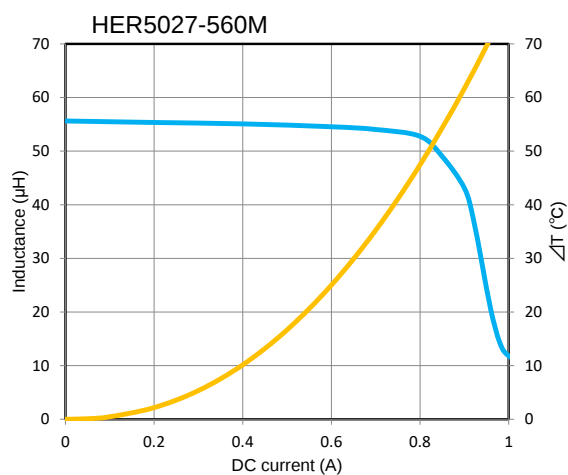
ΔT



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DC bias characteristics vs Temperature Rise Graph

— $L(25^{\circ}\text{C})$
— ΔT



DC bias characteristics vs Temperature Rise Graph

■ L(25°C) ■ ΔT

