

HER3027



■ 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 :

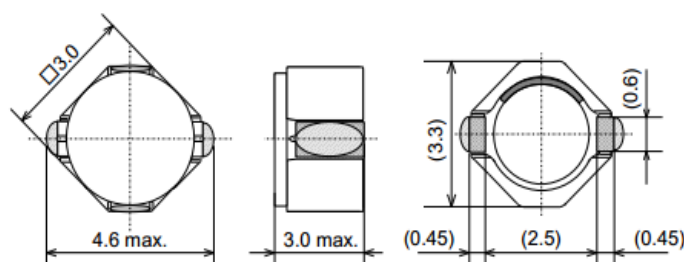


Weight : 0.08 g

■ Applications

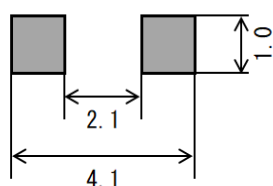
- Audio Visual/Portable Audio, Camera
- Computer & Peripheral Device/Computer, Printer(MFP)
- Others/Medical, Energy, Power Supply, Transceivers, FA

■ 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 (μH)	DCR (Ω) $\pm 30\%$	DC Saturation Allowable Current (mA)	Temperature Rise Allowable Current (mA)
HER3027-1R0N	1 $\pm 30\%$	0.0240	2.85	2.60
HER3027-1R2N	1.2 $\pm 30\%$	0.0280	2.45	2.45
HER3027-1R8N	1.8 $\pm 30\%$	0.0310	2.10	2.10
HER3027-2R2N	2.2 $\pm 30\%$	0.0370	2.00	2.00
HER3027-2R7N	2.7 $\pm 30\%$	0.0400	1.90	1.90
HER3027-3R0N	3 $\pm 30\%$	0.0450	1.70	1.70
HER3027-3R9N	3.9 $\pm 30\%$	0.0480	1.45	1.45
HER3027-4R3N	4.3 $\pm 30\%$	0.0520	1.35	1.35
HER3027-4R7N	4.7 $\pm 30\%$	0.0570	1.25	1.25
HER3027-5R6N	5.6 $\pm 30\%$	0.0690	1.15	1.15
HER3027-6R8N	6.8 $\pm 30\%$	0.0790	1.10	1.10
HER3027-7R5N	7.5 $\pm 30\%$	0.120	1.05	1.05
HER3027-8R2N	8.2 $\pm 30\%$	0.130	1.00	1.00
HER3027-9R1N	9.1 $\pm 30\%$	0.140	0.950	0.950
HER3027-100M	10 $\pm 20\%$	0.160	0.900	0.900
HER3027-120M	12 $\pm 20\%$	0.210	0.850	0.800
HER3027-150M	15 $\pm 20\%$	0.340	0.800	0.650
HER3027-180M	18 $\pm 20\%$	0.380	0.700	0.600
HER3027-220M	22 $\pm 20\%$	0.430	0.650	0.550
HER3027-270M	27 $\pm 20\%$	0.480	0.550	0.530
HER3027-330M	33 $\pm 20\%$	0.540	0.500	0.500
HER3027-390M	39 $\pm 20\%$	0.600	0.450	0.450
HER3027-470M	47 $\pm 20\%$	0.650	0.420	0.420
HER3027-560M	56 $\pm 20\%$	0.700	0.390	0.390
HER3027-680M	68 $\pm 20\%$	0.770	0.350	0.350

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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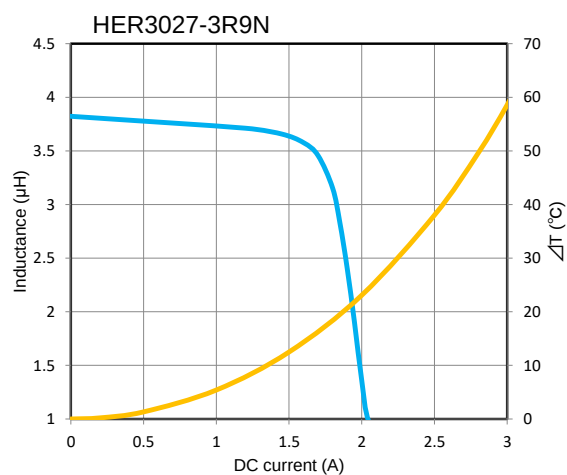
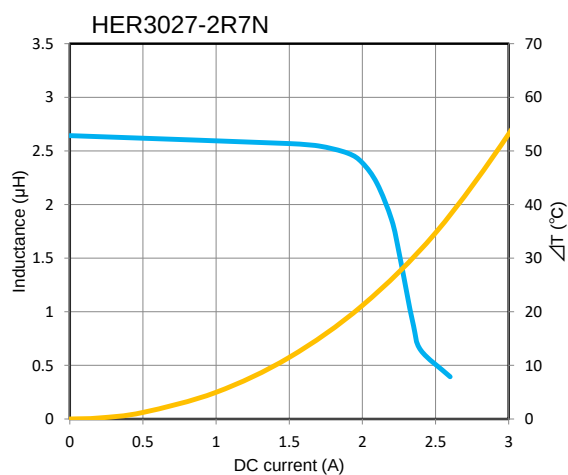
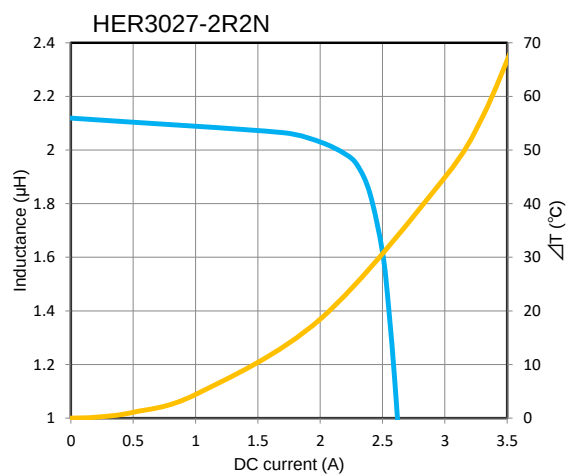
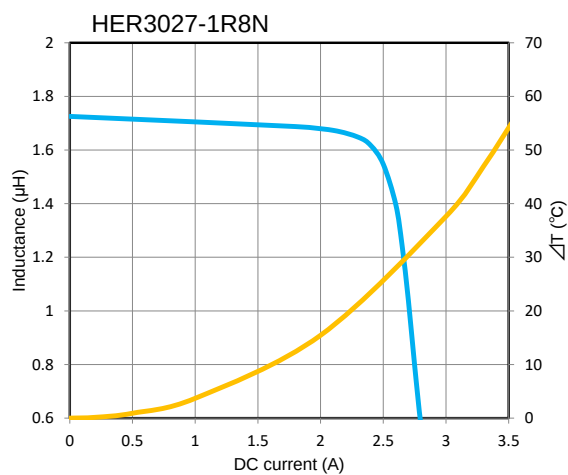
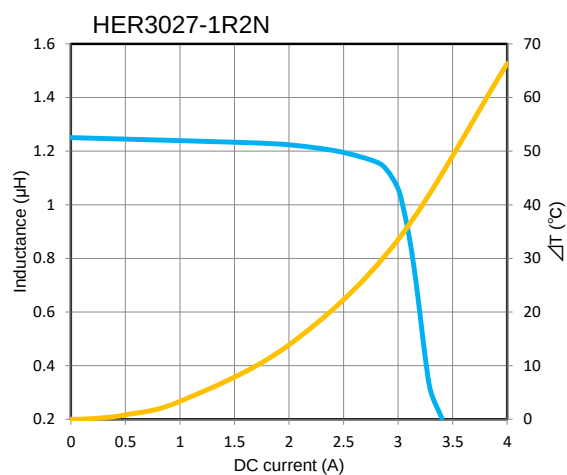
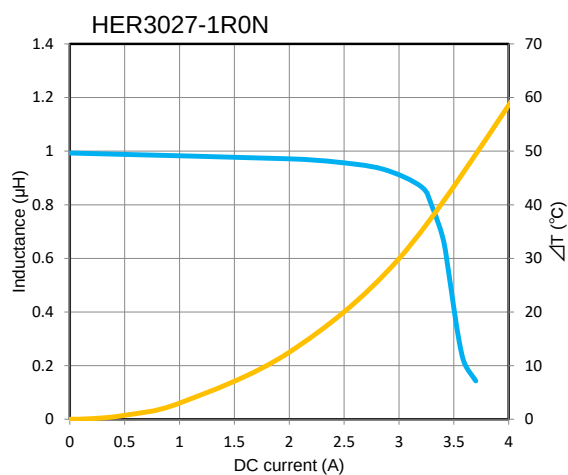
DC bias characteristics vs Temperature Rise Graph



L(25°C)



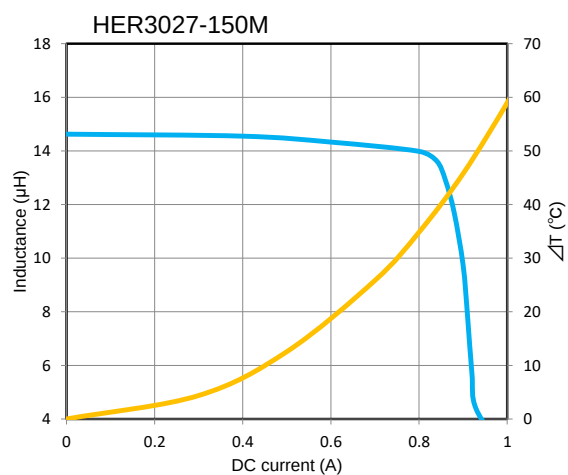
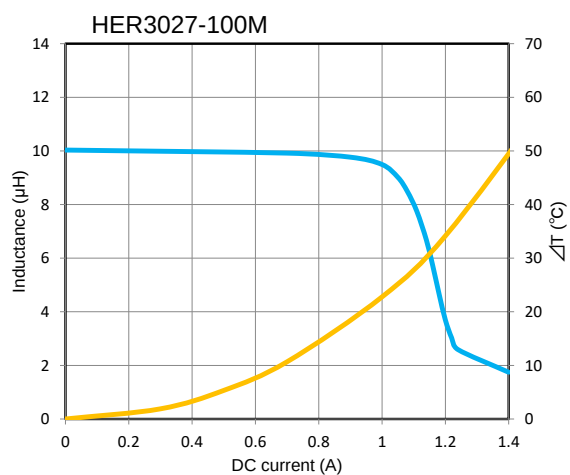
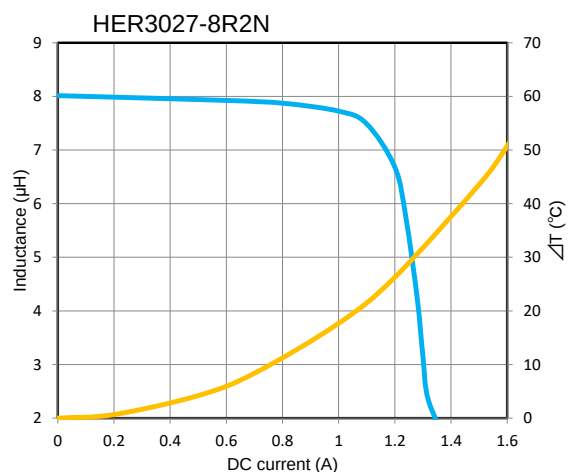
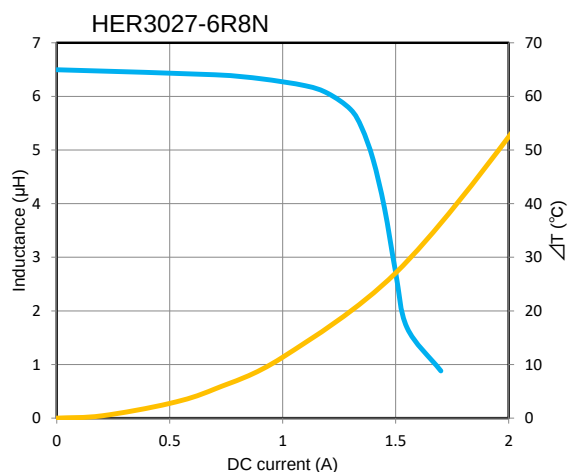
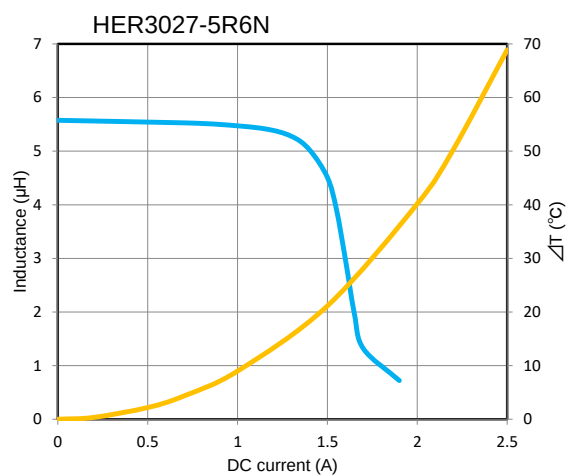
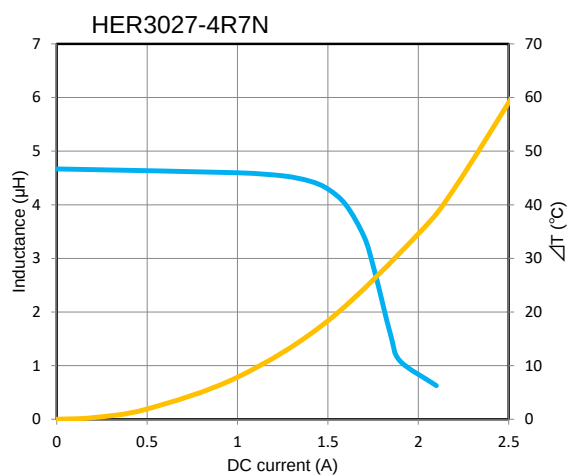
ΔT



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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

