

HER6027



■ 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 :

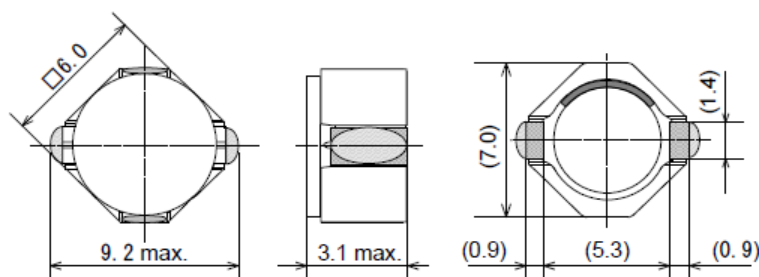


Weight : 0.36 g

■ Applications

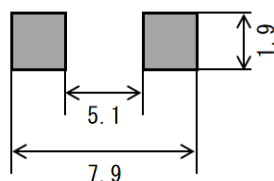
- Audio Visual/TV and Monitor, Portable Audio, Camera
- Computer & Peripheral Device/Printer(MFP), Computer
- Others/Energy, Power Supply, Transceivers, FA, Medical

■ Dimensions



(Unit : mm)

■ Recommended Land Pattern



(Unit : mm)



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

10-30, Ichibashimo-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0024, Japan
Over Seas Sales Dept. TEL : +81 45 511 3141, E-mail : ossg@sagami-elec.co.jp
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 (A)	Temperature Rise Allowable Current (A)
HER6027-R82N	0.82 $\pm 30\%$	0.00700	7.20	6.70
HER6027-1R3N	1.3 $\pm 30\%$	0.00900	5.50	6.20
HER6027-2R0N	2 $\pm 30\%$	0.0120	5.00	5.00
HER6027-3R0N	3 $\pm 30\%$	0.0160	3.50	3.50
HER6027-3R9N	3.9 $\pm 30\%$	0.0270	3.20	3.20
HER6027-4R7N	4.7 $\pm 30\%$	0.0320	2.80	2.80
HER6027-6R2N	6.2 $\pm 30\%$	0.0360	2.60	2.60
HER6027-7R5N	7.5 $\pm 30\%$	0.0460	2.30	2.30
HER6027-9R1N	9.1 $\pm 30\%$	0.0560	2.00	2.00
HER6027-100M	10 $\pm 20\%$	0.0670	1.90	1.90
HER6027-120M	12 $\pm 20\%$	0.0720	1.80	1.80
HER6027-150M	15 $\pm 20\%$	0.0800	1.70	1.70
HER6027-180M	18 $\pm 20\%$	0.0900	1.60	1.60
HER6027-220M	22 $\pm 20\%$	0.100	1.50	1.50
HER6027-270M	27 $\pm 20\%$	0.130	1.30	1.30
HER6027-330M	33 $\pm 20\%$	0.160	1.10	1.10
HER6027-390M	39 $\pm 20\%$	0.200	1.00	1.00
HER6027-470M	47 $\pm 20\%$	0.240	0.900	0.900
HER6027-560M	56 $\pm 20\%$	0.330	0.850	0.850
HER6027-680M	68 $\pm 20\%$	0.370	0.750	0.750
HER6027-820M	82 $\pm 20\%$	0.400	0.700	0.700
HER6027-101M	100 $\pm 20\%$	0.460	0.650	0.650
HER6027-121M	120 $\pm 20\%$	0.530	0.600	0.600
HER6027-151M	150 $\pm 20\%$	0.670	0.500	0.500
HER6027-181M	180 $\pm 20\%$	0.870	0.470	0.470
HER6027-221M	220 $\pm 20\%$	1.11	0.450	0.450
HER6027-271M	270 $\pm 20\%$	1.46	0.400	0.380
HER6027-331M	330 $\pm 20\%$	1.67	0.370	0.370
HER6027-391M	390 $\pm 20\%$	1.85	0.350	0.350
HER6027-471M	470 $\pm 20\%$	2.05	0.300	0.300

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



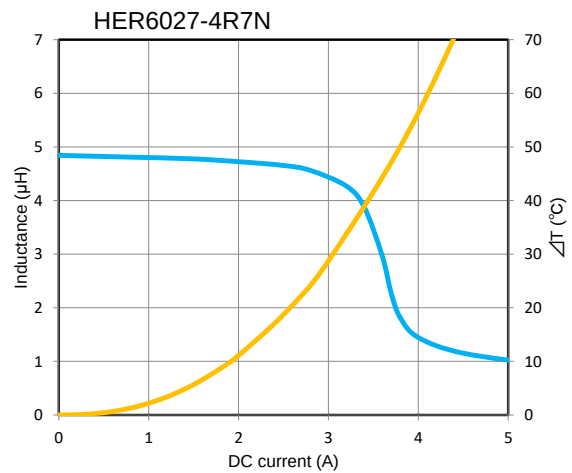
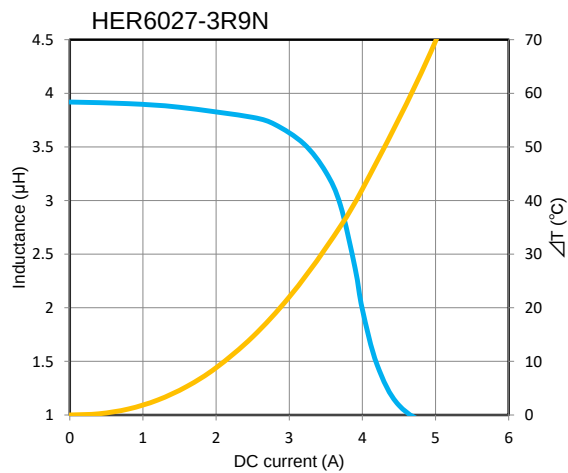
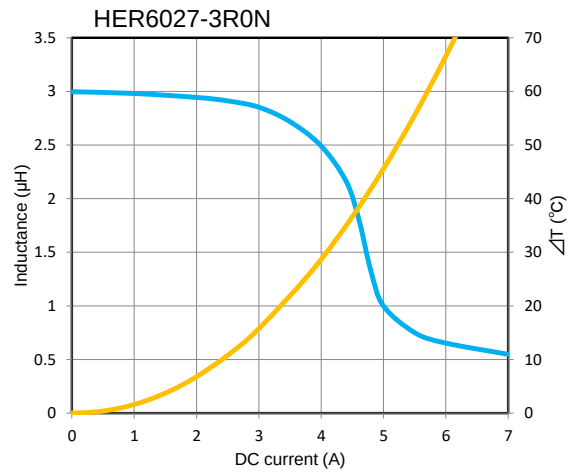
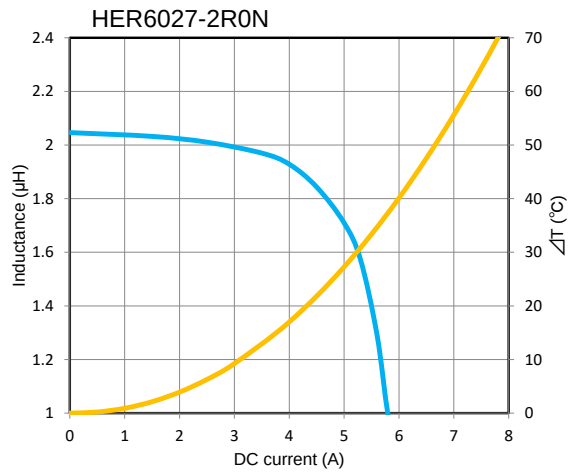
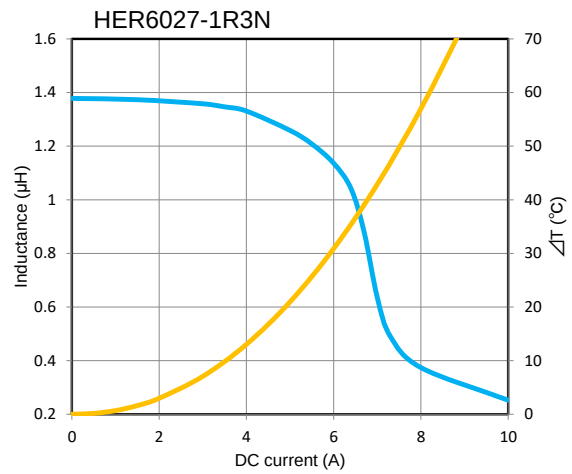
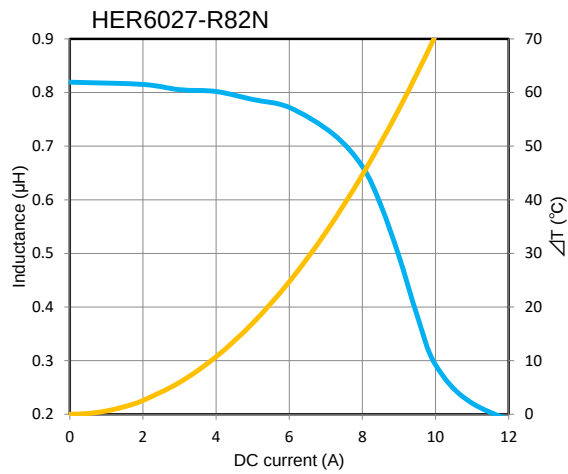
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DC bias characteristics vs Temperature Rise Graph

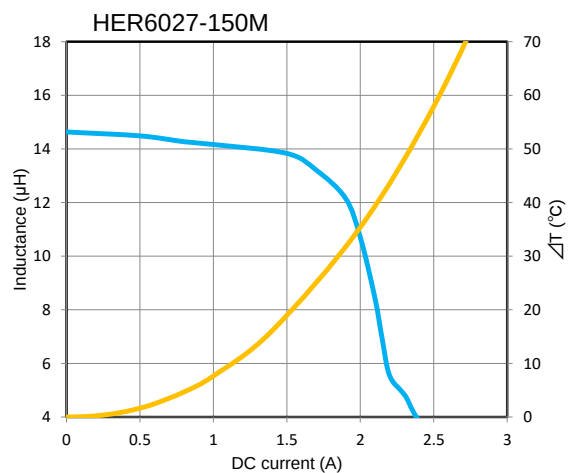
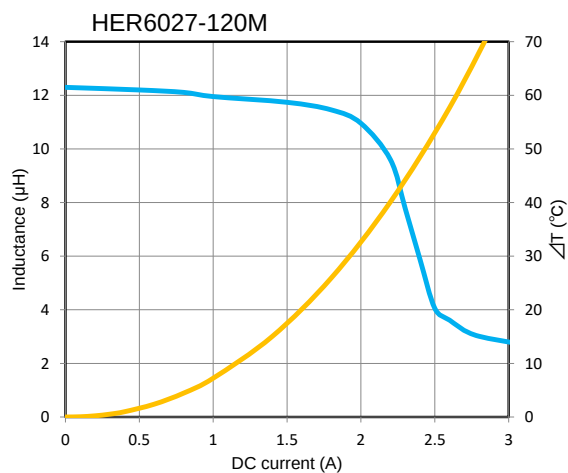
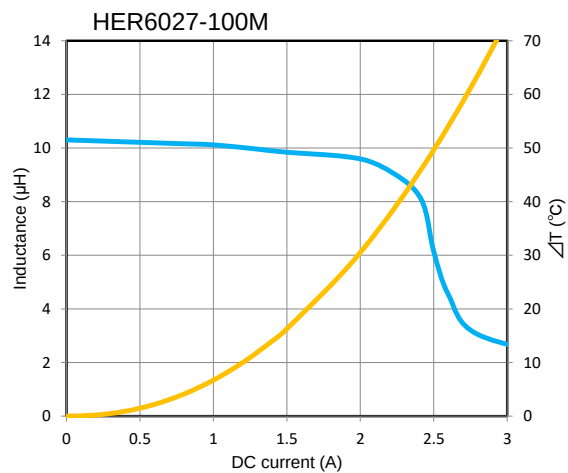
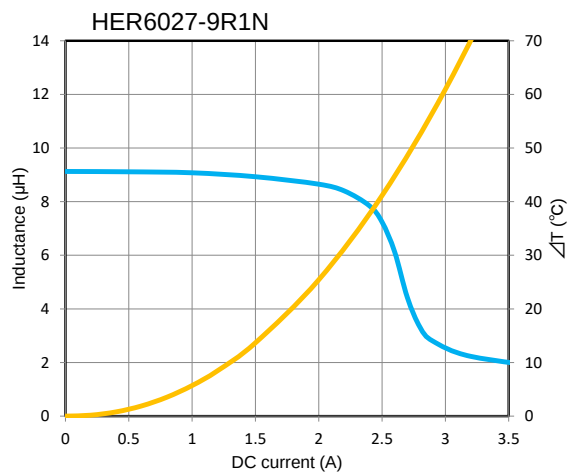
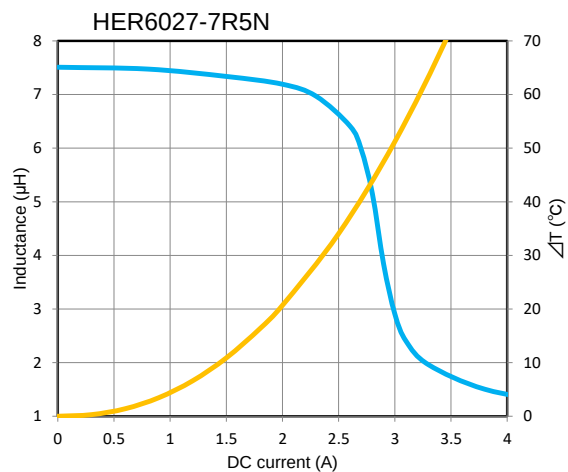
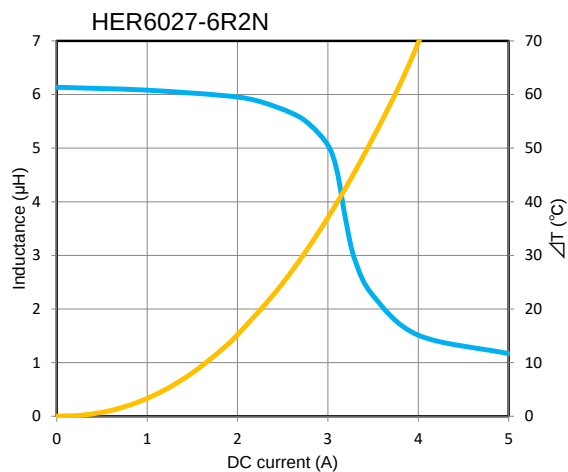
■ L(25°C) ■ ΔT



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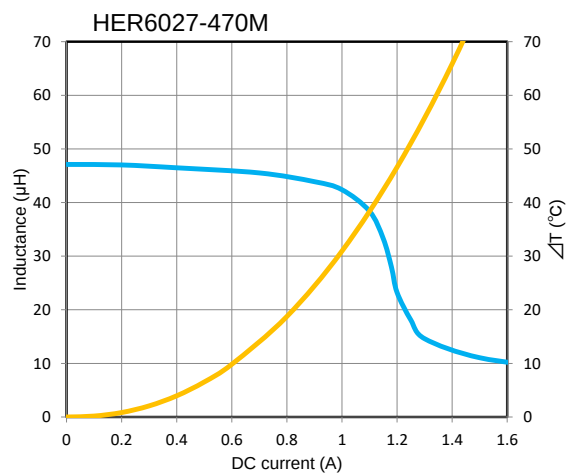
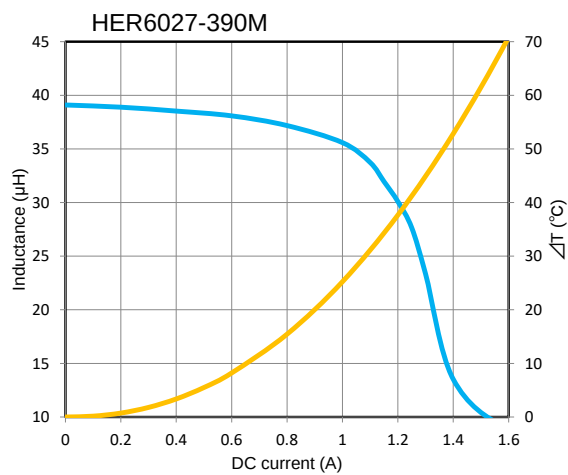
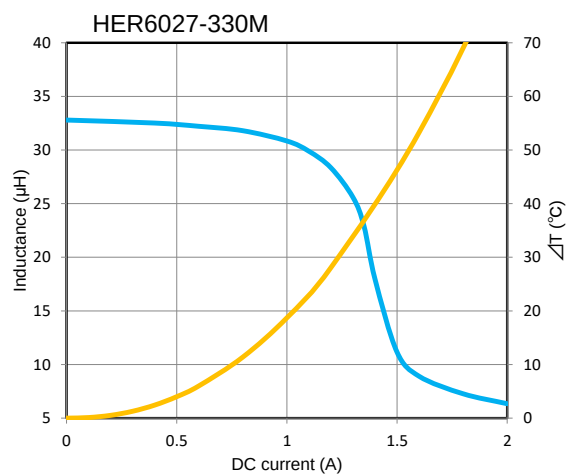
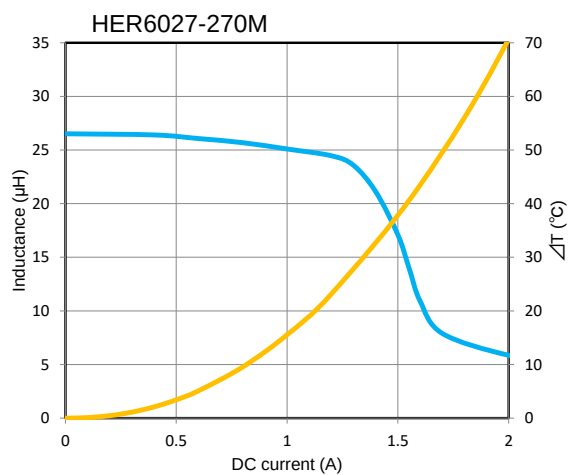
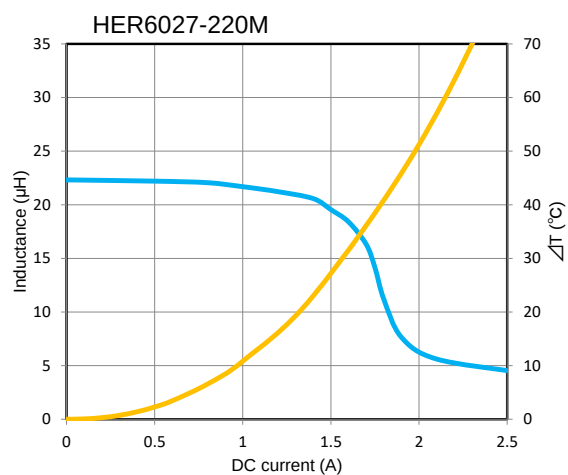
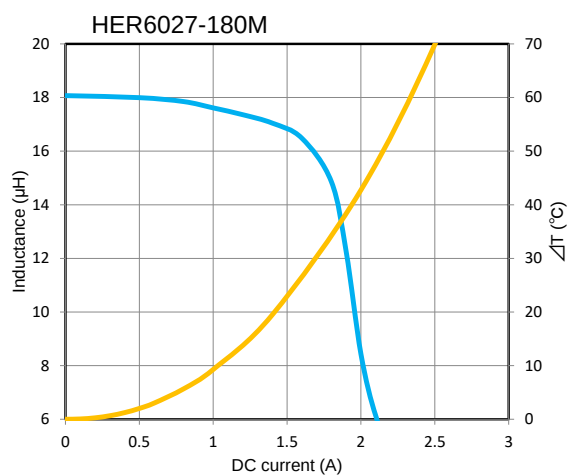
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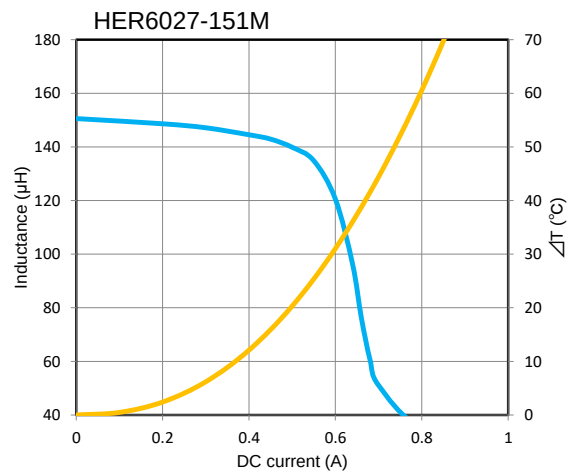
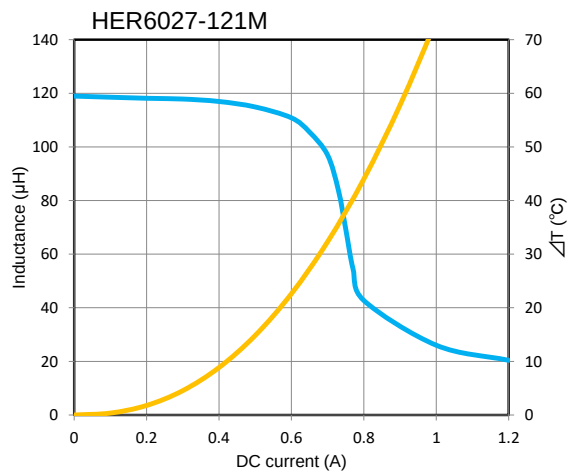
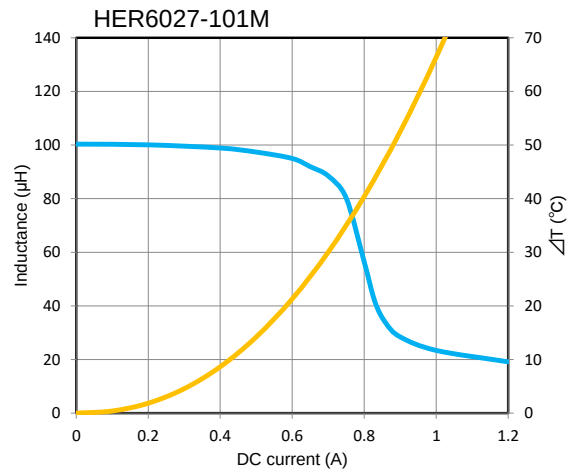
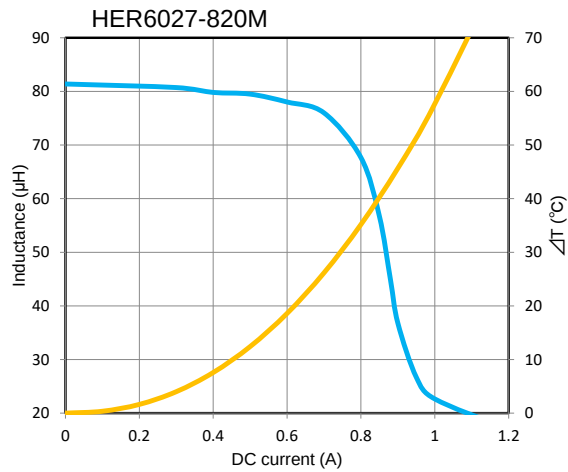
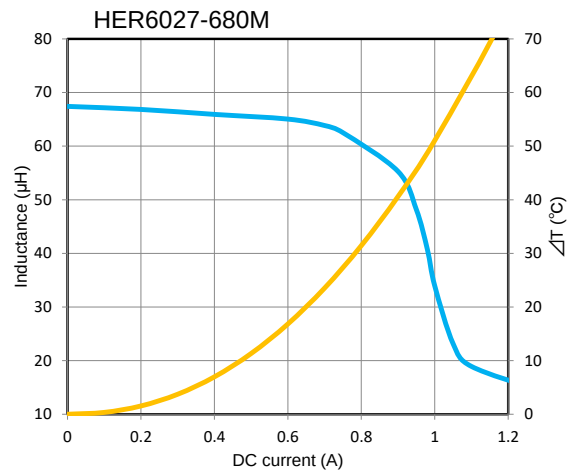
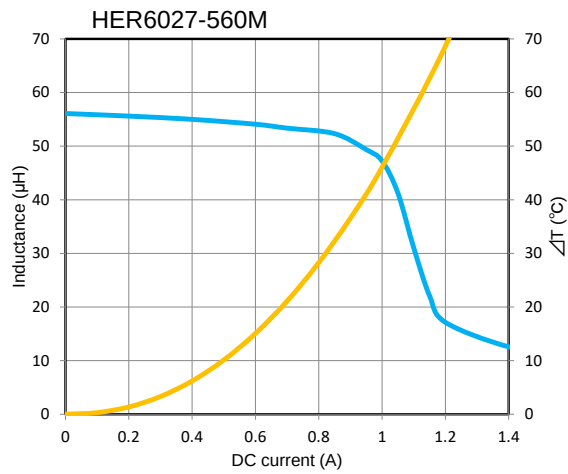
DC bias characteristics vs Temperature Rise Graph



L(25°C)



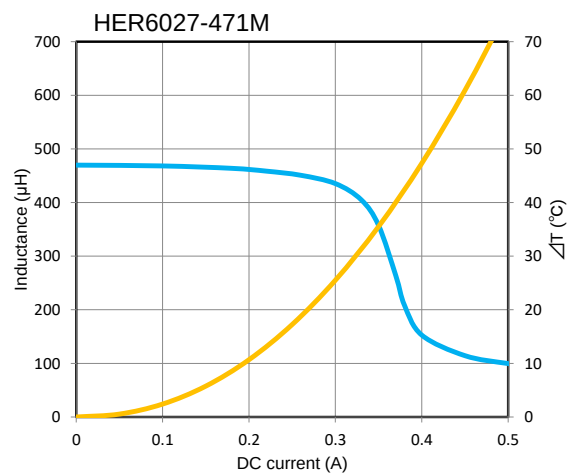
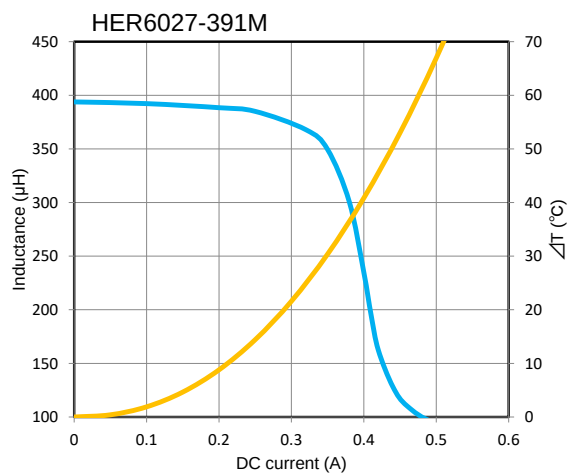
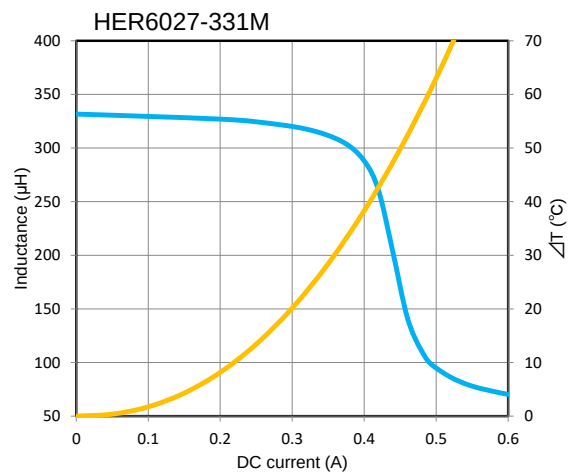
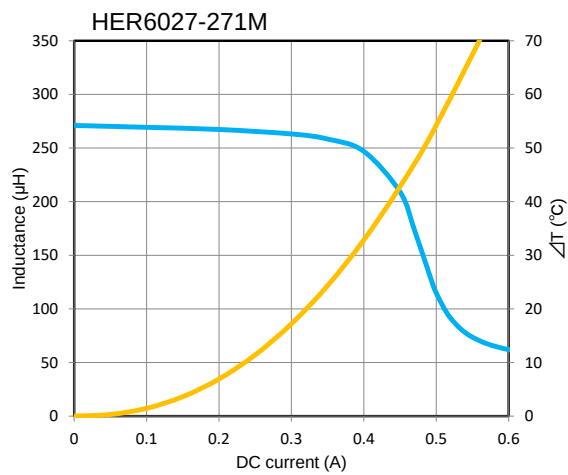
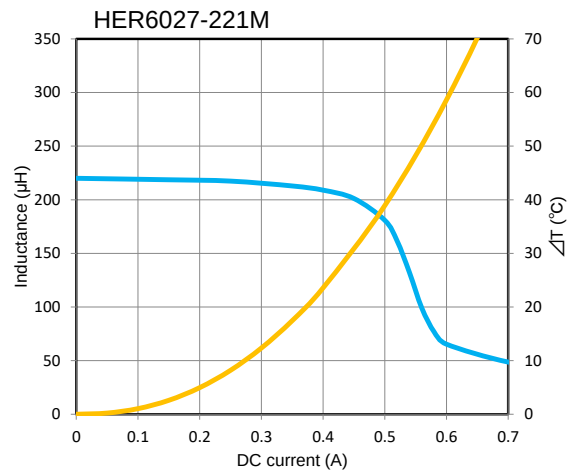
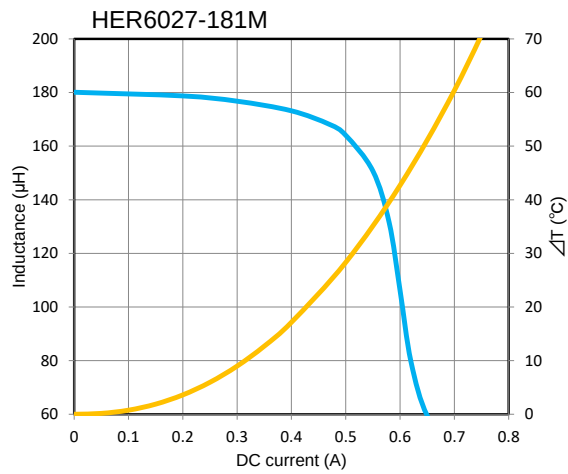
ΔT



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— $L(25^{\circ}\text{C})$ — ΔT



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