

## HER3027C

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(except for terminal strength)
- Operating temperature : -40°C~+150°C(The self-heating is included)

Magnetic structure :

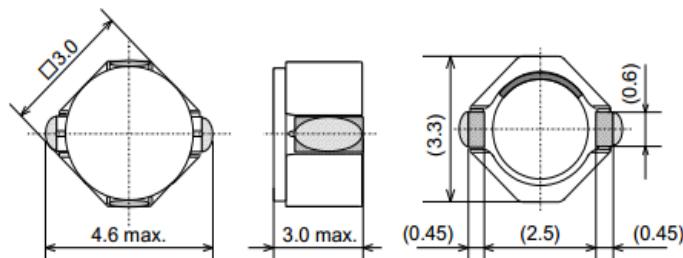


Weight : 0.08 g

### ■ Applications

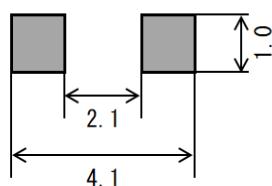
- Automotive/ECU,LED Headlights,Car Audio,Car Navigation
- Others/Power Supply,FA

### ■ Dimensions



(Unit : mm)

### ■ Recommended Land Pattern



(Unit : mm)



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

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Engineering Dept. TEL : +81 45 521 4543

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## ■ Specifications

SAGAMI Part No.	Inductance ( $\mu$ H)	DCR ( $\Omega$ ) ±30%	DC Saturation Allowable Current (mA)	Temperature Rise Allowable Current (mA)
HER3027C-1R0N	1±30%	0.0240	2.85	2.60
HER3027C-1R2N	1.2±30%	0.0280	2.45	2.45
HER3027C-1R8N	1.8±30%	0.0310	2.10	2.10
HER3027C-2R2N	2.2±30%	0.0370	2.00	2.00
HER3027C-2R7N	2.7±30%	0.0400	1.90	1.90
HER3027C-3R0N	3±30%	0.0450	1.70	1.70
HER3027C-3R9N	3.9±30%	0.0480	1.45	1.45
HER3027C-4R3N	4.3±30%	0.0520	1.35	1.35
HER3027C-4R7N	4.7±30%	0.0570	1.25	1.25
HER3027C-5R6N	5.6±30%	0.0690	1.15	1.15
HER3027C-6R8N	6.8±30%	0.0790	1.10	1.10
HER3027C-7R5N	7.5±30%	0.120	1.05	1.05
HER3027C-8R2N	8.2±30%	0.130	1.00	1.00
HER3027C-9R1N	9.1±30%	0.140	0.950	0.950
HER3027C-100M	10±20%	0.160	0.900	0.900
HER3027C-120M	12±20%	0.210	0.850	0.800
HER3027C-150M	15±20%	0.340	0.800	0.650
HER3027C-180M	18±20%	0.380	0.700	0.600
HER3027C-220M	22±20%	0.430	0.650	0.550
HER3027C-270M	27±20%	0.480	0.550	0.530
HER3027C-330M	33±20%	0.540	0.500	0.500
HER3027C-390M	39±20%	0.600	0.450	0.450
HER3027C-470M	47±20%	0.650	0.420	0.420
HER3027C-560M	56±20%	0.700	0.390	0.390
HER3027C-680M	68±20%	0.770	0.350	0.350

Inductance Measuring Condition:100kHz,1V(<10 $\mu$ 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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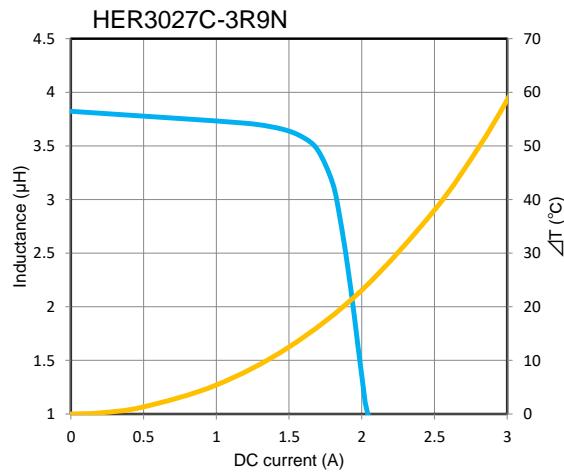
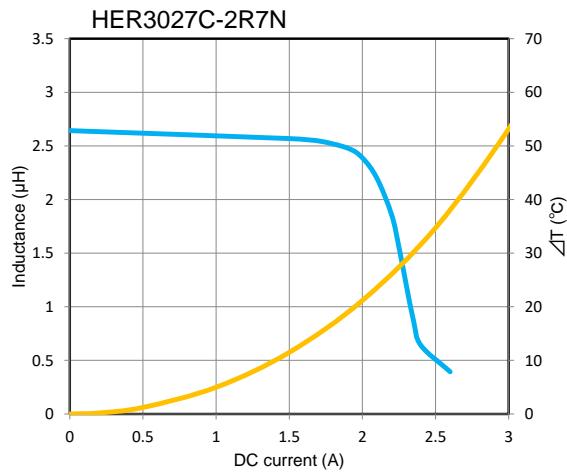
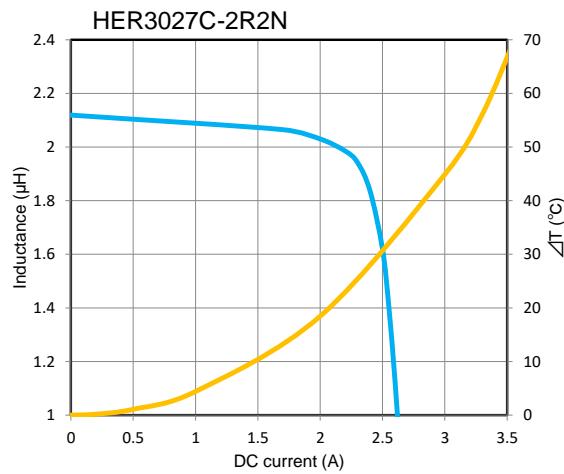
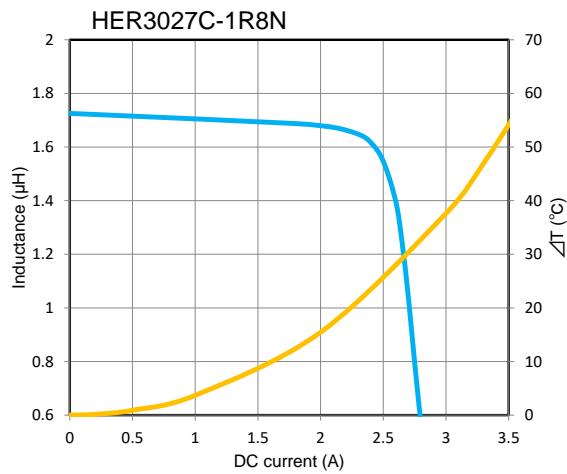
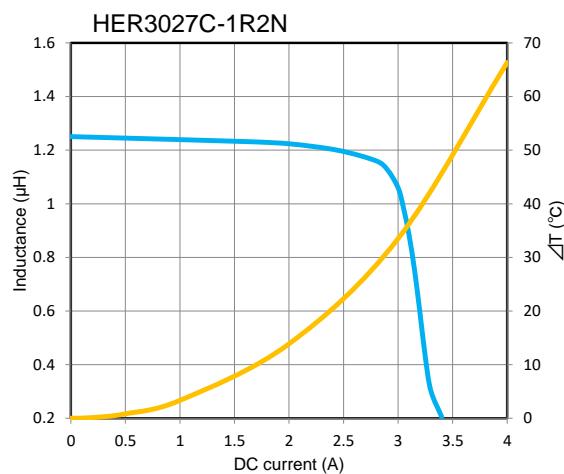
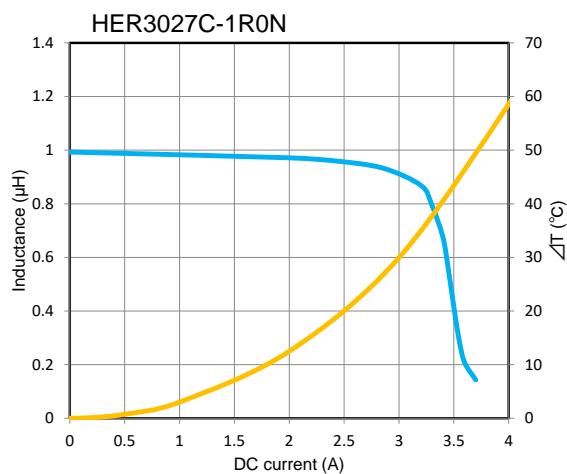
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# DC bias characteristics vs Temperature Rise Graph

L(25°C)

$\Delta T$

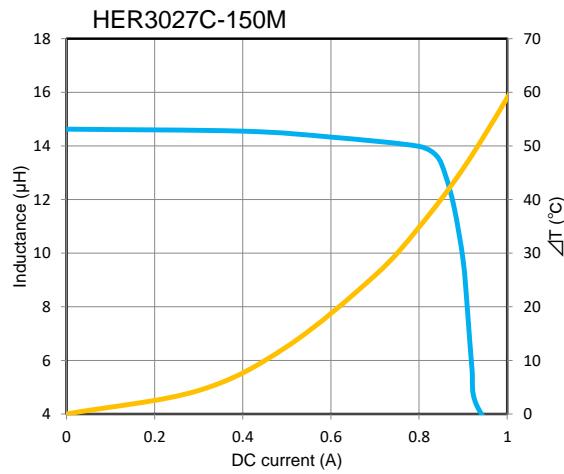
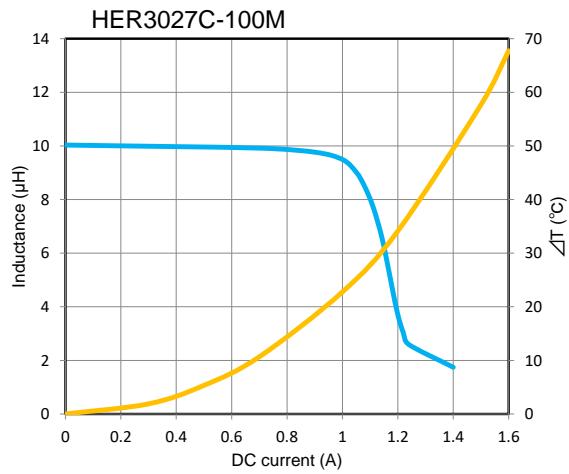
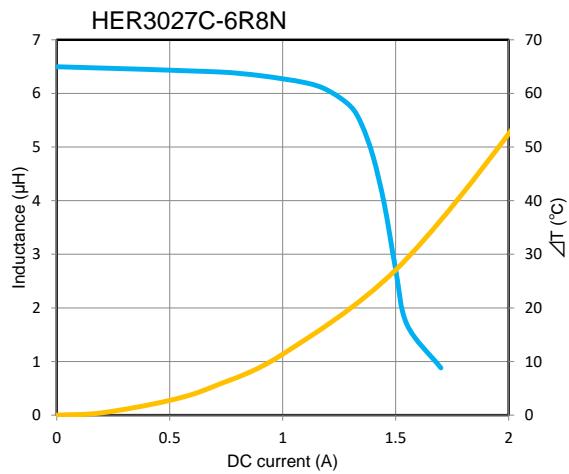
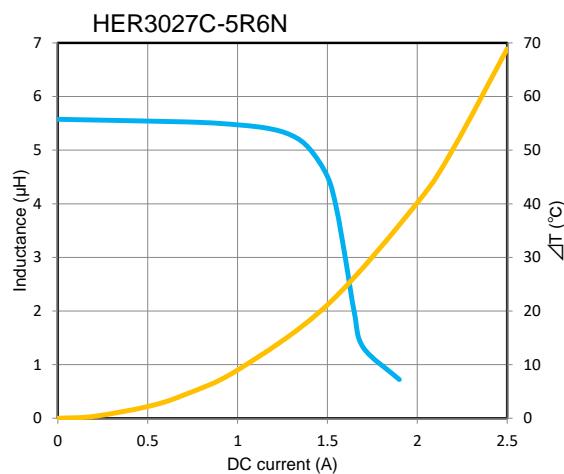
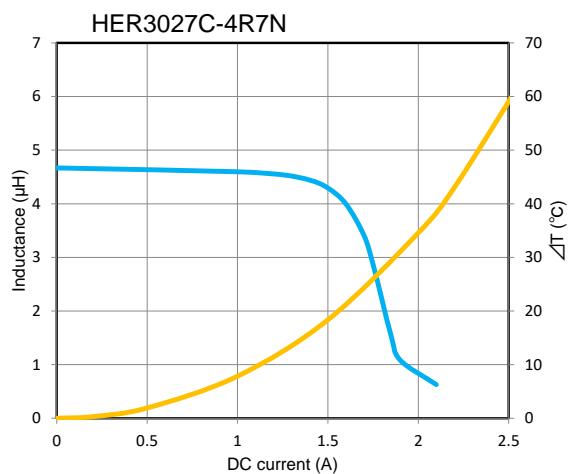


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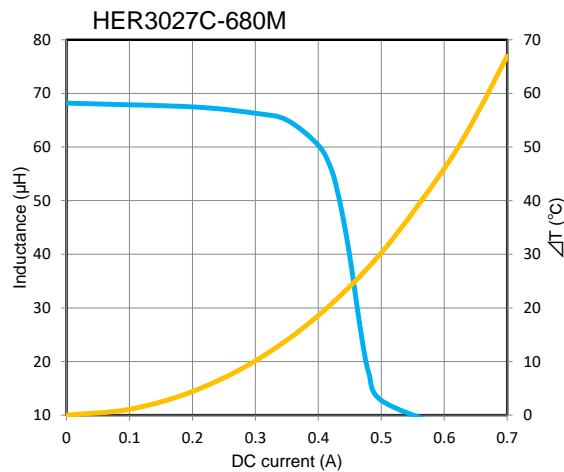
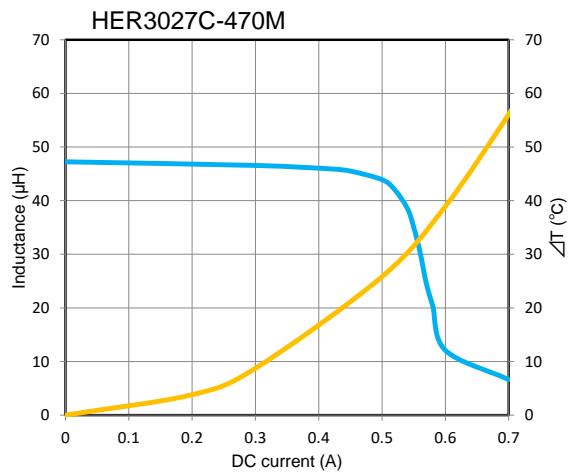
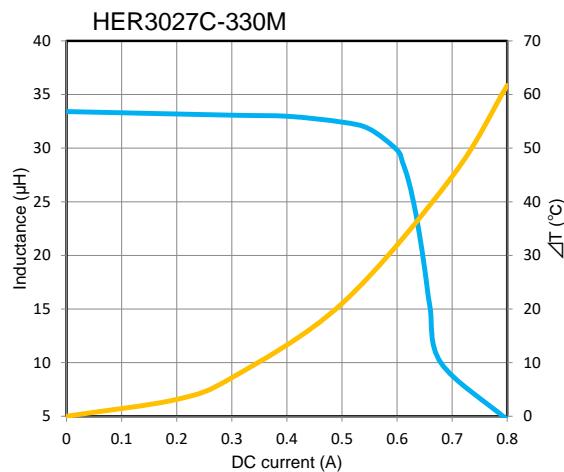
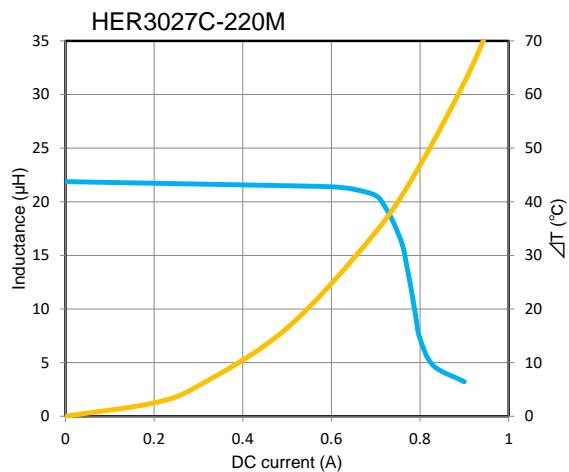


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ΔT



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