HER4027C

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℃～+150℃(The self-heating is included)

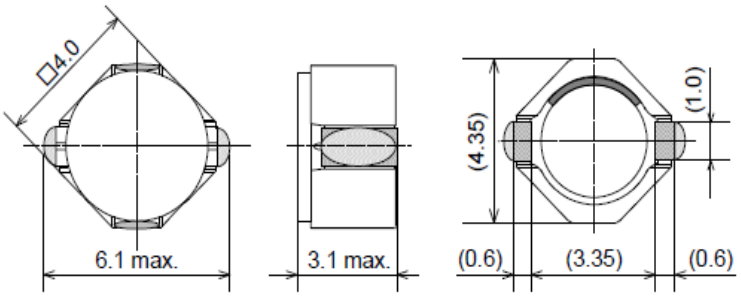
Magnetic structure：

Weight： 0.15 g

■ Applications

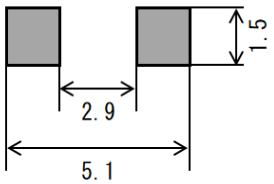
- Automotive/ECU,LED Headlights,Car Audio,Car Navigation
- Others/Power Supply,FA

■ Dimensions



(Unit：mm)

■ Recommended Land Pattern



(Unit：mm)

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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

■ Specifications

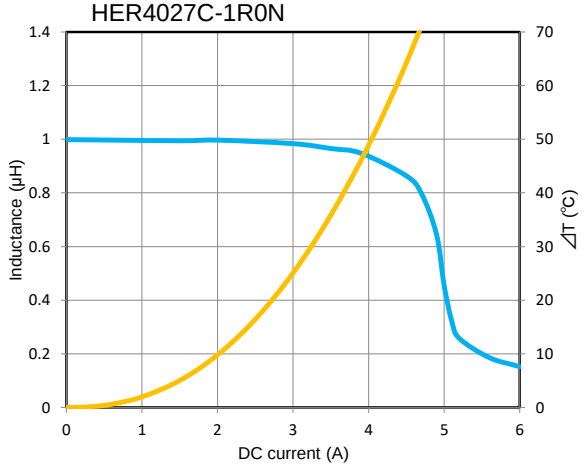
SAGAMI Part No.	Inductance (μH)	DCR (Ω) ±30%	DC Saturation Allowable Current (mA)	Temperature Rise Allowable Current (mA)
HER4027C-1R0N	1±30%	0.0170	3.90	3.20
HER4027C-1R5N	1.5±30%	0.0200	3.40	2.95
HER4027C-1R8N	1.8±30%	0.0230	3.00	2.75
HER4027C-2R4N	2.4±30%	0.0270	2.50	2.45
HER4027C-3R6N	3.6±30%	0.0340	2.15	2.00
HER4027C-4R3N	4.3±30%	0.0400	2.00	1.85
HER4027C-5R1N	5.1±30%	0.0480	1.80	1.70
HER4027C-6R8N	6.8±30%	0.0630	1.55	1.45
HER4027C-8R2N	8.2±30%	0.0740	1.40	1.35
HER4027C-100M	10±20%	0.0860	1.30	1.20
HER4027C-120M	12±20%	0.110	1.20	1.15
HER4027C-150M	15±20%	0.130	1.05	1.00
HER4027C-180M	18±20%	0.160	0.950	0.900
HER4027C-220M	22±20%	0.210	0.900	0.820
HER4027C-270M	27±20%	0.240	0.800	0.730
HER4027C-330M	33±20%	0.300	0.700	0.640
HER4027C-390M	39±20%	0.330	0.650	0.610
HER4027C-470M	47±20%	0.420	0.600	0.520
HER4027C-560M	56±20%	0.530	0.550	0.480
HER4027C-680M	68±20%	0.610	0.500	0.440
HER4027C-820M	82±20%	0.780	0.450	0.380
HER4027C-101M	100±20%	0.880	0.400	0.360

Inductance Measuring Condition:100kHz,1V(＜10μH)、1kHz,1V(≧10μH)
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℃

DC bias characteristics vs Temperature Rise Graph

L(25℃)　　⊿T

HER4027C-1R0N



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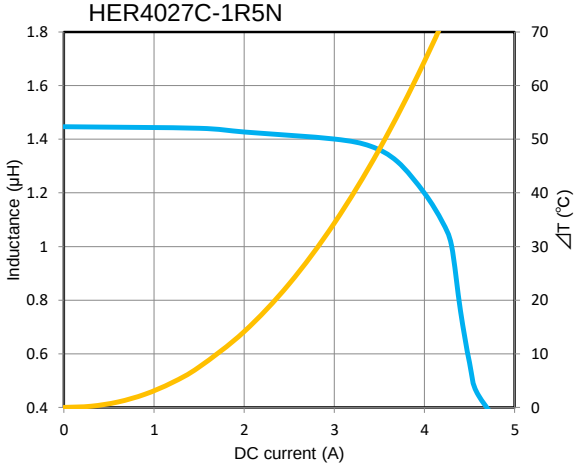
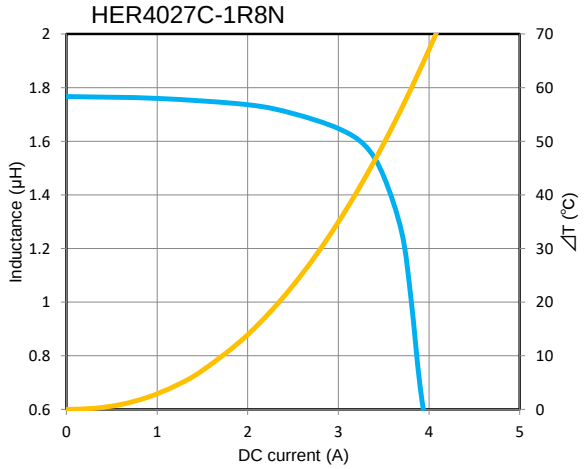


HER4027C-1R8N



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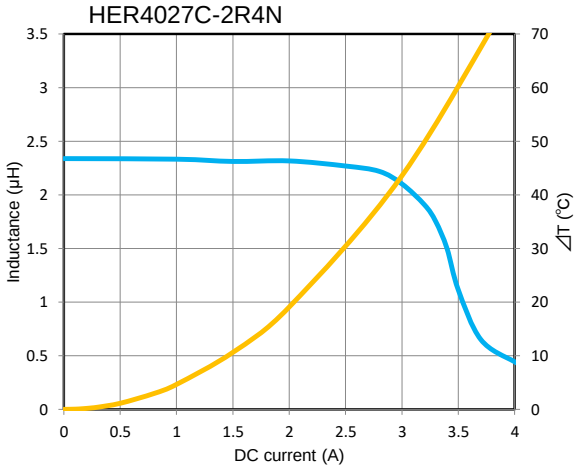
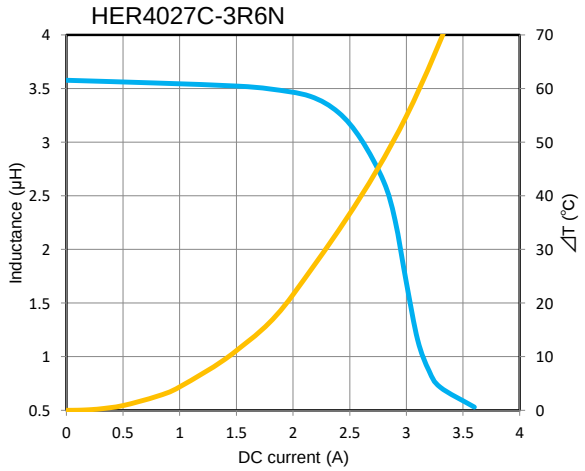
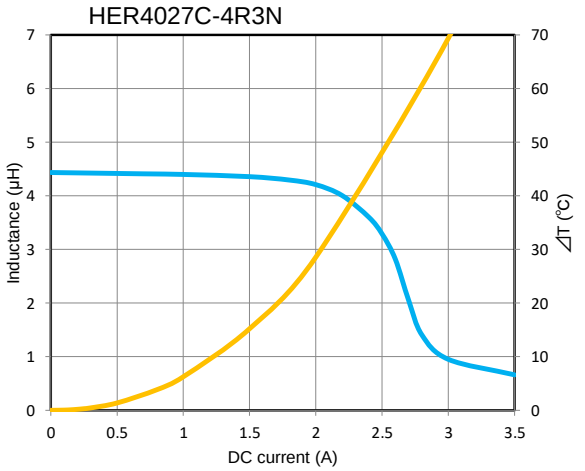


HER4027C-3R6N



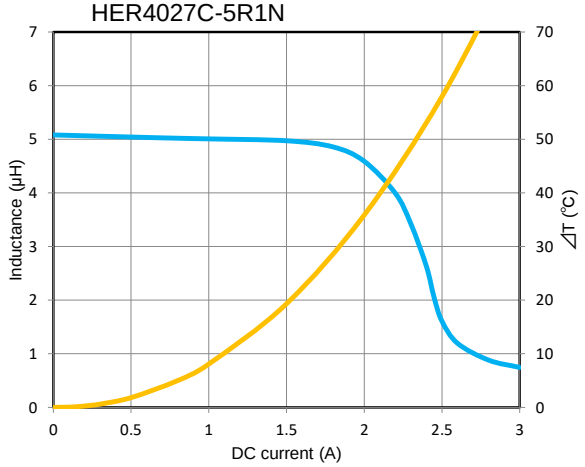
HER4027C-4R3N



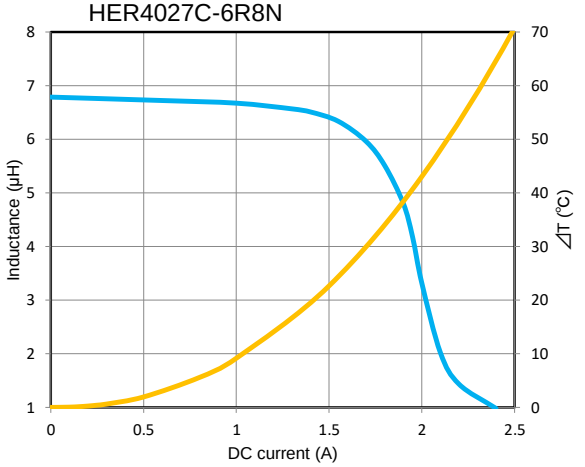
DC bias characteristics vs Temperature Rise Graph

L(25℃)　　⊿T

HER4027C-5R1N



HER4027C-6R8N



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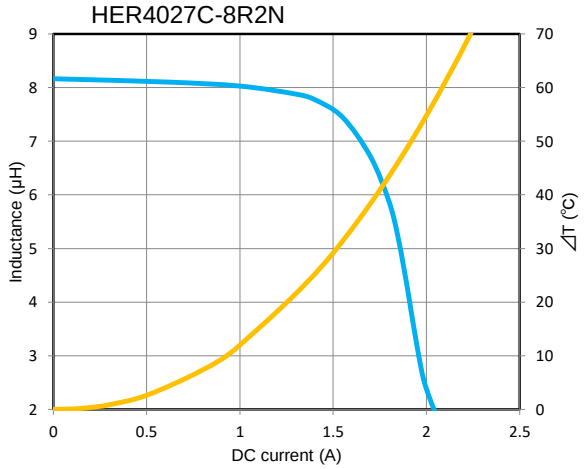
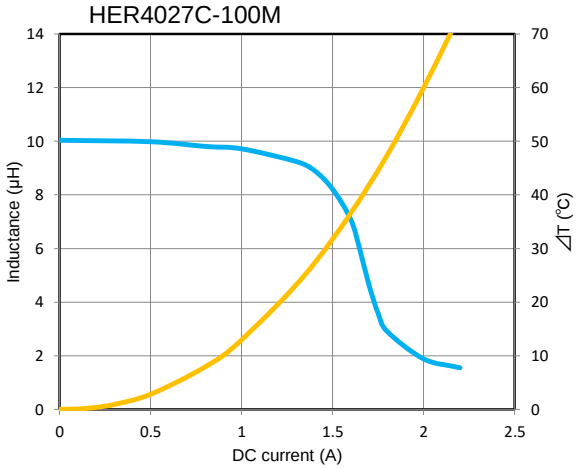


HER4027C-100M



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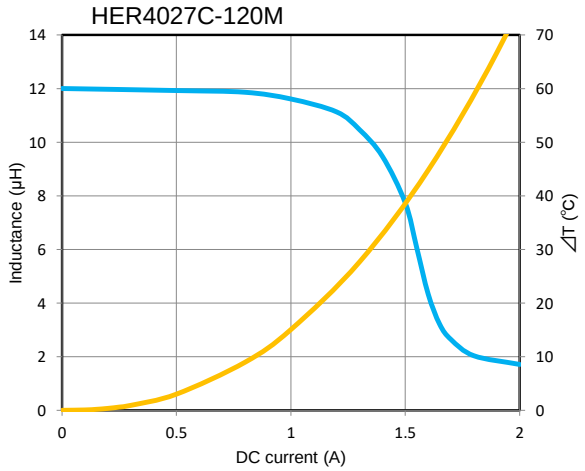
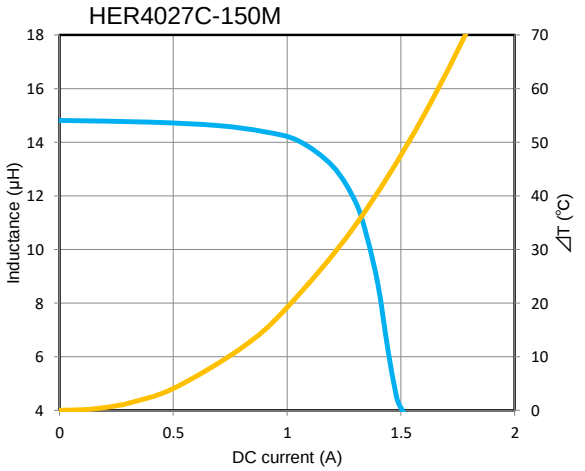


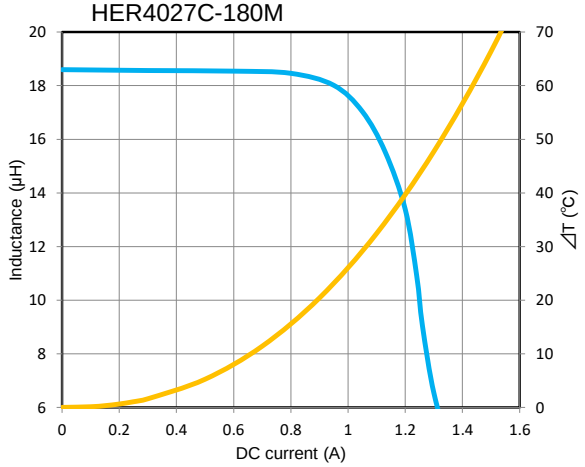
HER4027C-150M



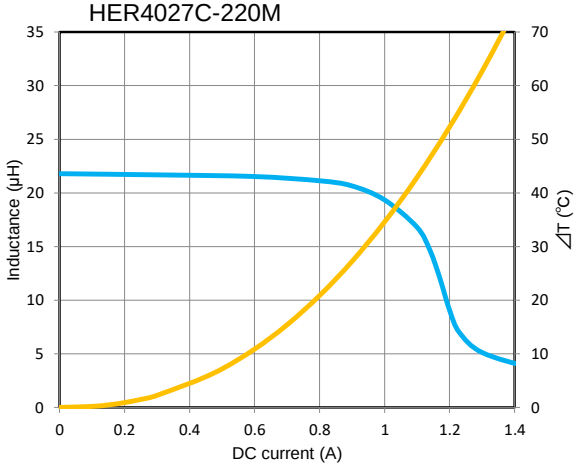
DC bias characteristics vs Temperature Rise Graph

L(25℃)　　⊿T

HER4027C-180M



HER4027C-220M



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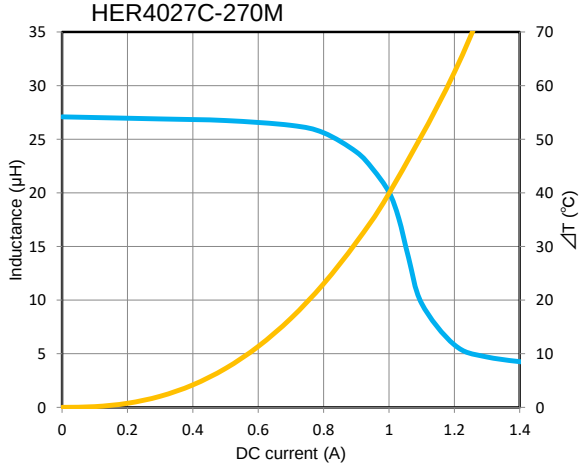

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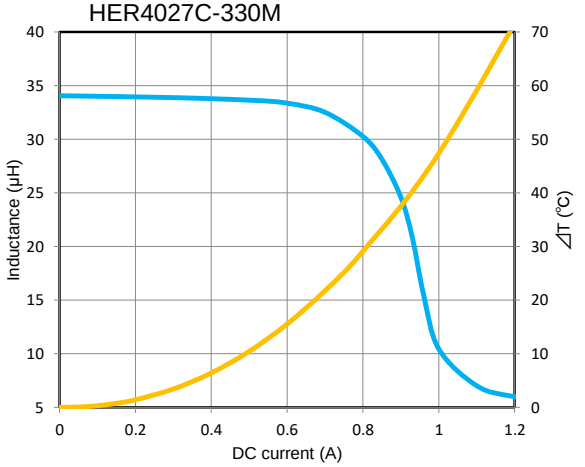

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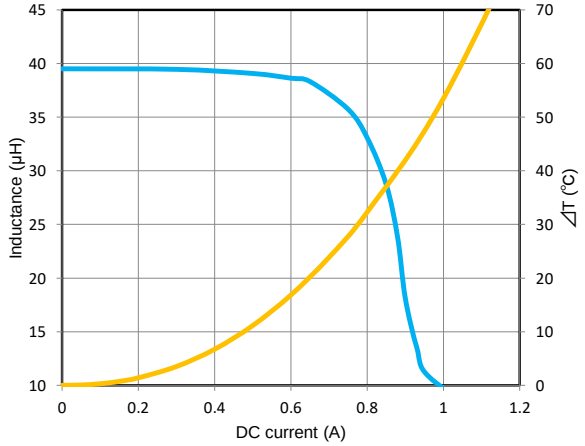

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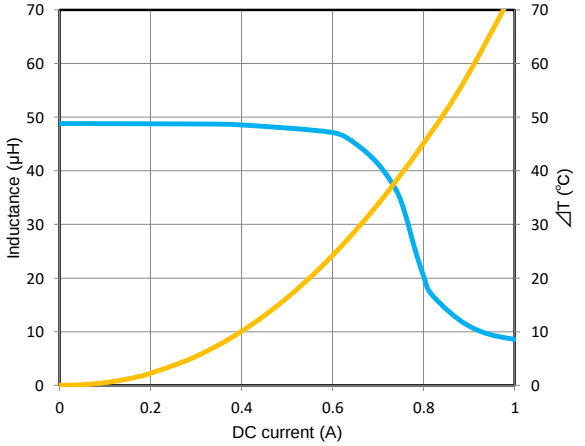
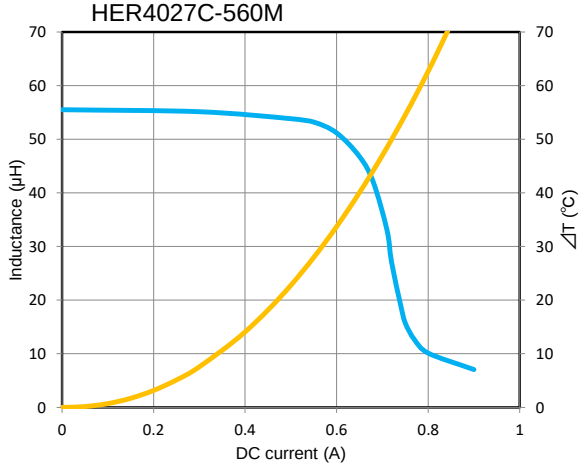


DC bias characteristics vs Temperature Rise Graph

L(25℃)　　⊿T

HER4027C-560M



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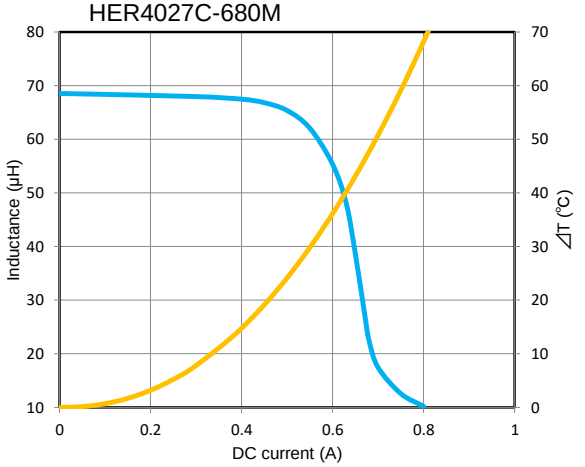

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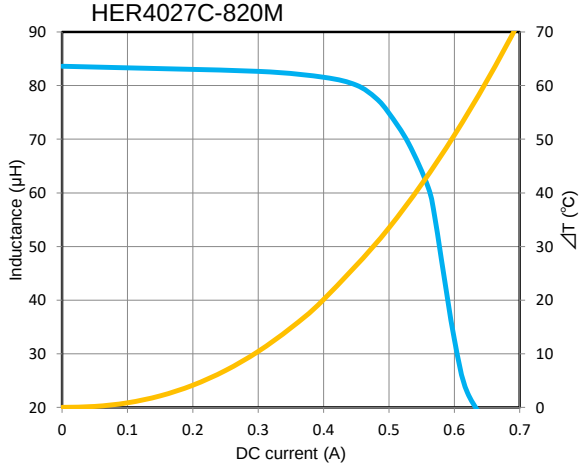

HER4027C-101M