

Molding Power Choke



Integrated forming inductor independent mold opening, with a number of design patents, a number of independent knowledge products; Small volume, small current, can maintain good temperature rise current and saturation current characteristics at high temperature; Adopt one body forming structure, strong, magnetic circuit closed, with good magnetic shielding and EMI performance; Magnetic shield structure, magnetic circuit closed, strong anti-electromagnetic interference, with very low buzzer, high installation density; Low loss alloy powder die-casting, low impedance; High precision, durable rust prevention;

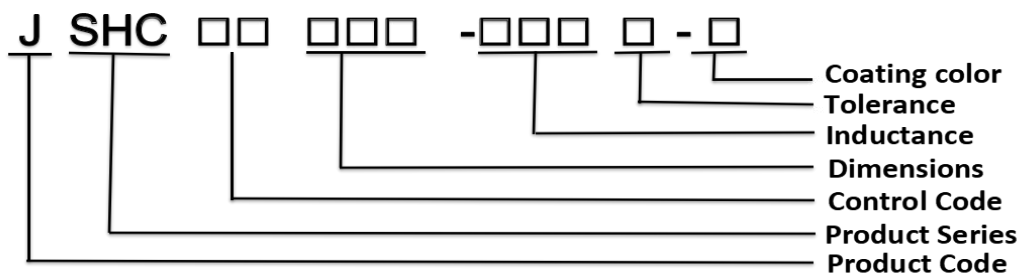
Features

- Products are lead-free, in line with RoHS directive, Halogen Free and REACH Compliance
- SMD surface mount inductor
- The integrated structure avoids noise
- Lowest DC impedance of the same size
- The current resistance inductance value drops to ensure smooth
- Up to 5MHz application frequency
- Fully enclosed magnetic shielding structure can effectively reduce electromagnetic interference

Applications

- DC-DC converters
- Power modules
- CONSUME
- Laptop, MOTHERBOARD, INDUSTRY
- Communication networks, Internet of Things and other electronic devices

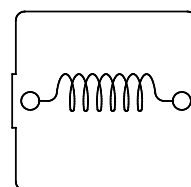
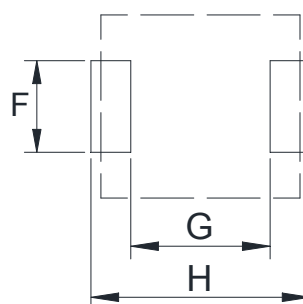
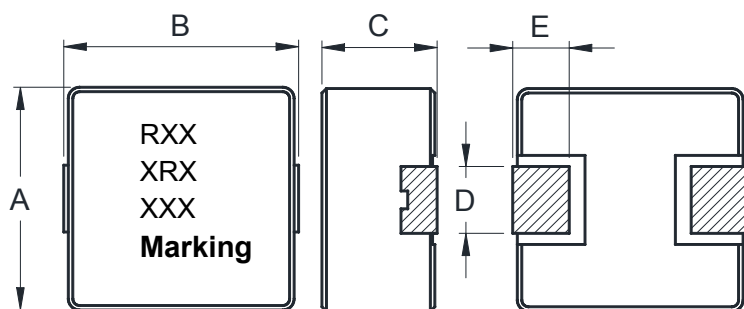
Product Identification



Appearance and dimensions

Reference PCB pattern

Schematic



Dimensions in mm

A	B	C	D	E	F	G	H
10.6Max	11.6Max	4.0Max	3.0±0.5	2.0±0.5	4.8Ref	5.0Ref	12.0Ref

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Electrical Characteristics

Part Number	Inductance	Tolerance	Test Frequency	RDC	Isat	Irms
	(uH)	(±%)	(KHz)	(mΩ)Max	(mA) Typical	(mA)Typical
JSHC1040H-R22M-K	0.22	20	100	1	60.0	35.0
JSHC1040H-R68M-K	0.68	20	100	3	31.0	23.0
JSHC1040H-1R0M-K	1.0	20	100	4.1	28.0	18.0
JSHC1040H-2R2M-K	2.2	20	100	9	20.0	12.0
JSHC1040H-3R3M-K	3.3	20	100	13.5	16.0	10.0
JSHC1040H-4R7M-K	4.7	20	100	16.5	13.0	9.5
JSHC1040H-6R8M-K	6.8	20	100	30	12.0	8.0
JSHC1040H-220M-K	22	20	100	66	6.0	3.5

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- All data is tested on 25°C ambient temperature.
- Inductance is tested at 100kHz, 1.0V.
- Heat rating current: The value of DC current when product temperature rise is $\Delta T40^{\circ}\text{C}$ ($T_a=25^{\circ}\text{C}$).
- Saturation current: The value of DC current when the inductance decreases approximately 30% of its.

Special remind: Circuit design, component placement, frequency, cooling system and etc.
all will affect the product temperature. Please verify the actual product temperature in the final application.

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	(uH)	(±%)	(KHz)	(mΩ)Max	(mA) Typical	(mA)Typical
JSHC1040H-R22M-GT	0.22	20	100	1	60.0	35.0
JSHC1040H-R33M-GT	0.33	20	100	1.4	51.0	27.0
JSHC1040H-R47M-GT	0.47	20	100	1.8	39.0	26.0
JSHC1040H-R68M-GT	0.68	20	100	3	32.0	23.0
JSHC1040H-1R0M-GT	1.0	20	100	3.3	29.0	19.0
JSHC1040H-1R5M-GT	1.5	20	100	3.6	27.0	21.0
JSHC1040H-2R2M-GT	2.2	20	100	9	25.0	12.0
JSHC1040H-3R3M-GT	3.3	20	100	13.5	16.0	10.0
JSHC1040H-4R7M-GT	4.7	20	100	16.5	19.0	7.0
JSHC1040H-5R6M-GT	5.6	20	100	25	14.0	8.0
JSHC1040H-6R8M-GT	6.8	20	100	28	13.0	7.0
JSHC1040H-8R2M-GT	8.2	20	100	30	10.0	6.0
JSHC1040H-100M-GT	10	20	100	30	8.5	7.5
JSHC1040H-220M-GT	22	20	100	66	7.0	5.0
JSHC1040H-330M-GT	33	20	100	155	4.5	3.0
JSHC1040H-680M-GT	68	20	100	205	3.5	2.0

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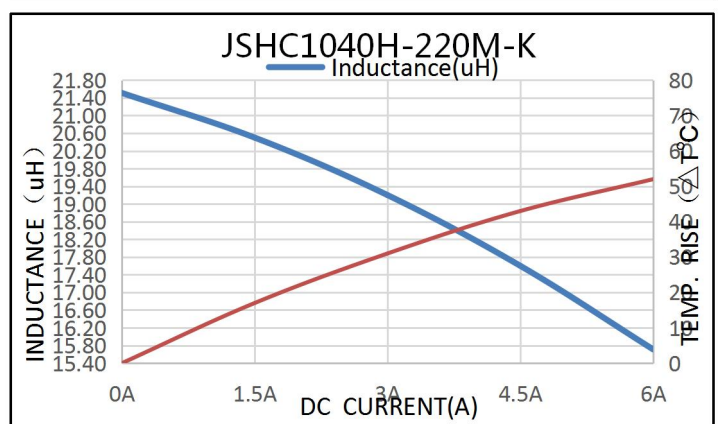
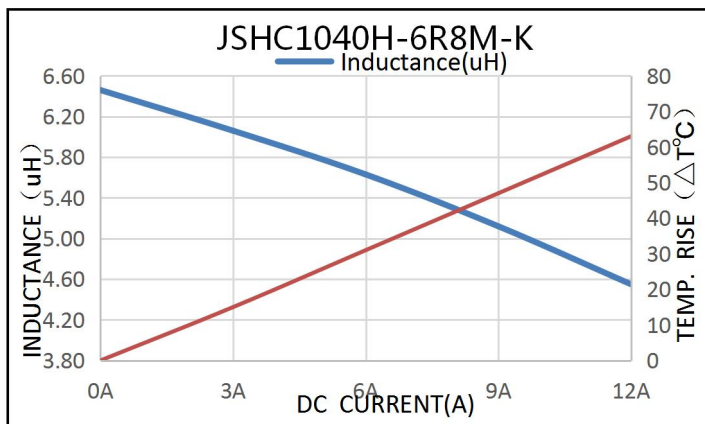
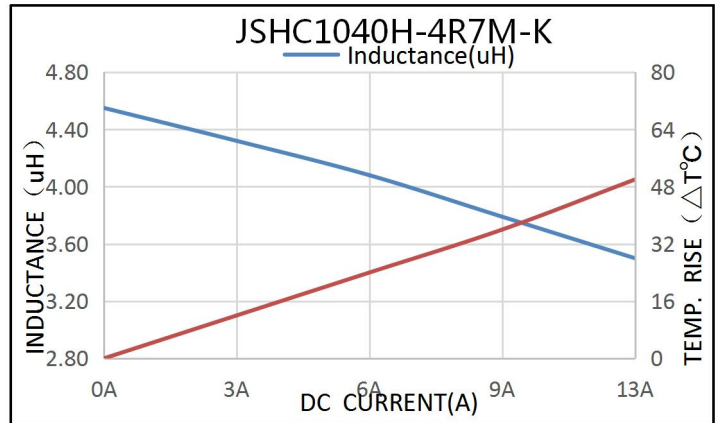
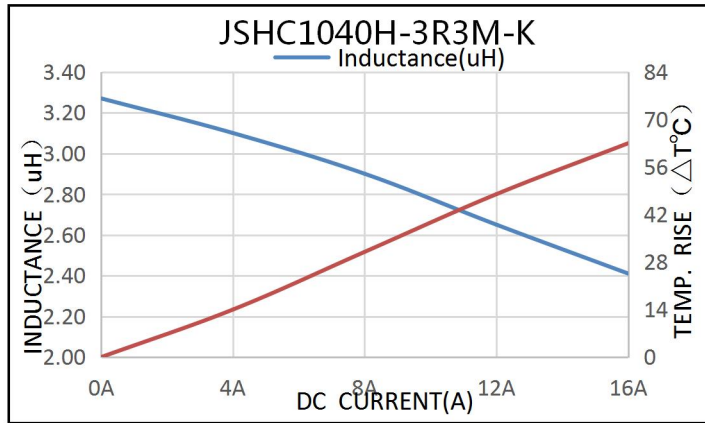
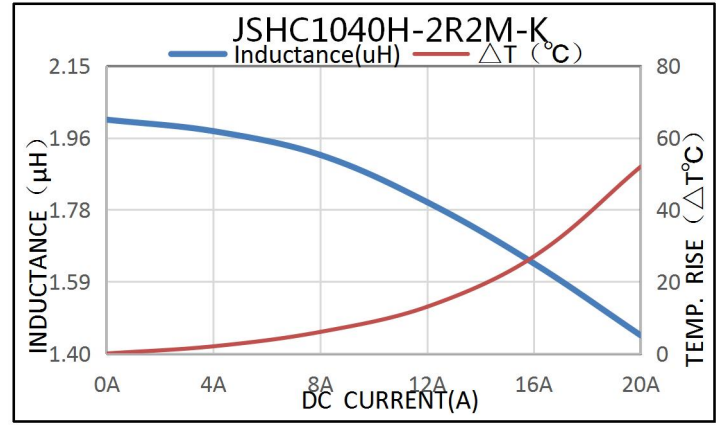
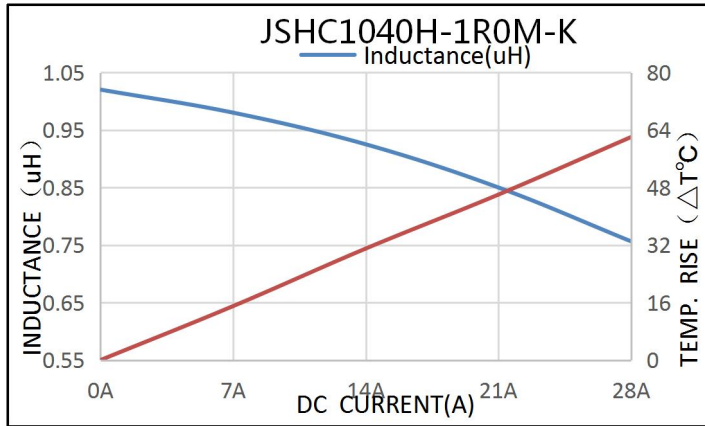
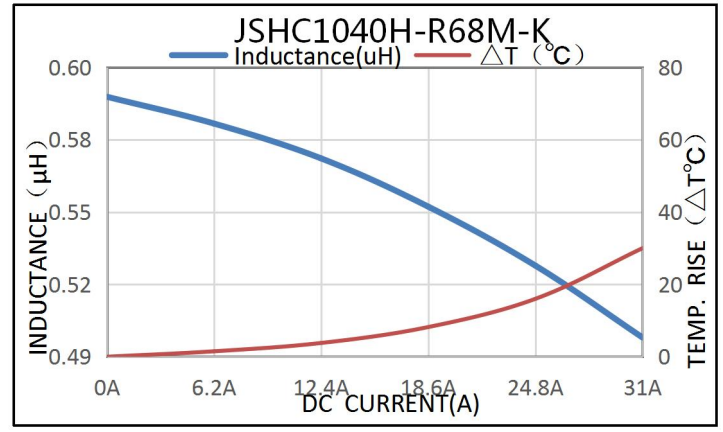
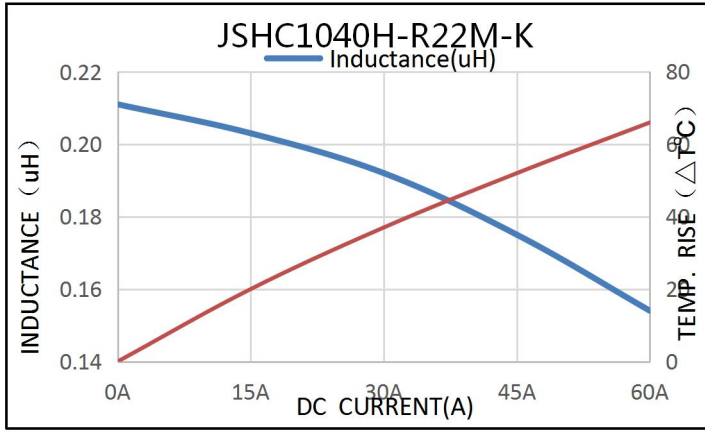
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	(uH)	(±%)	(KHz)	(mΩ)Max	(mA) Typical	(mA)Typical
JSHC1040H-150M-GH	15	20	100	48	7.0	4.0
JSHC1040H-470M-GH	47	20	100	145	4.0	3.0
JSHC1040H-101M-GH	100	20	100	300	3.0	1.0

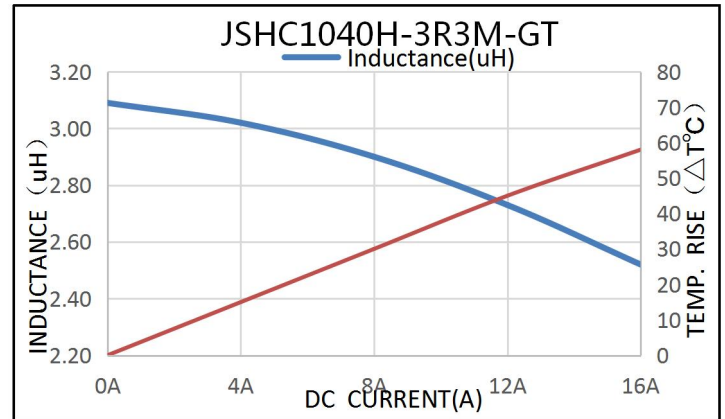
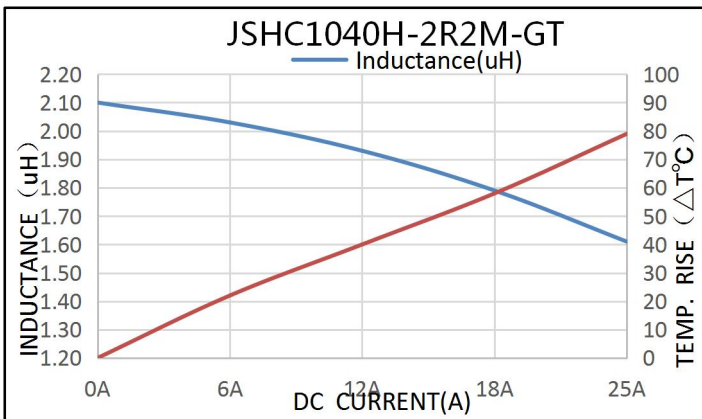
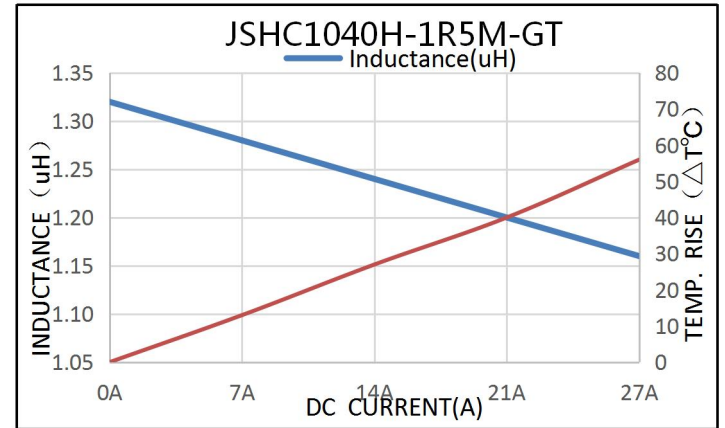
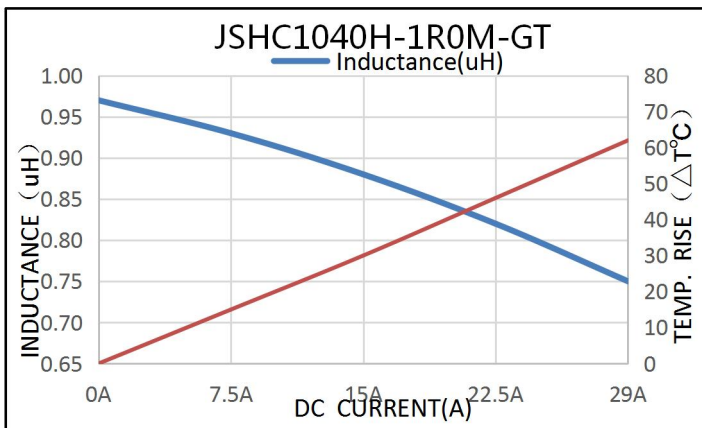
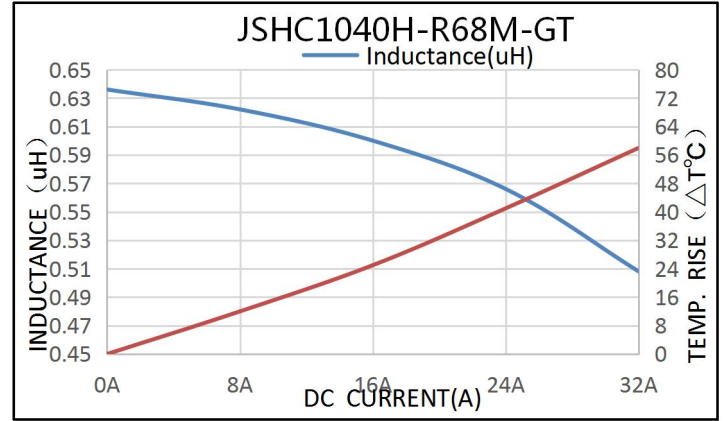
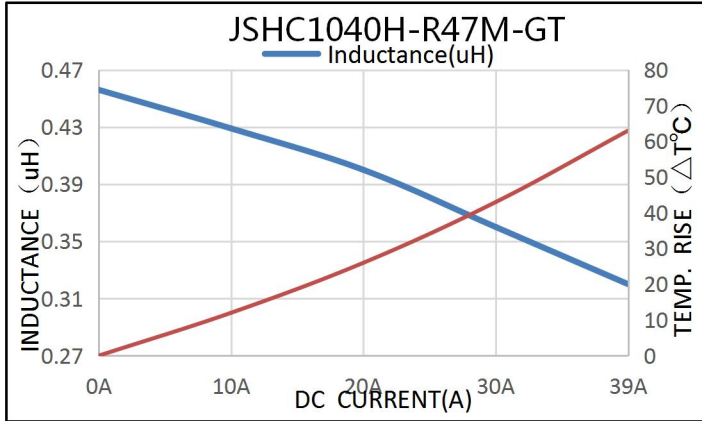
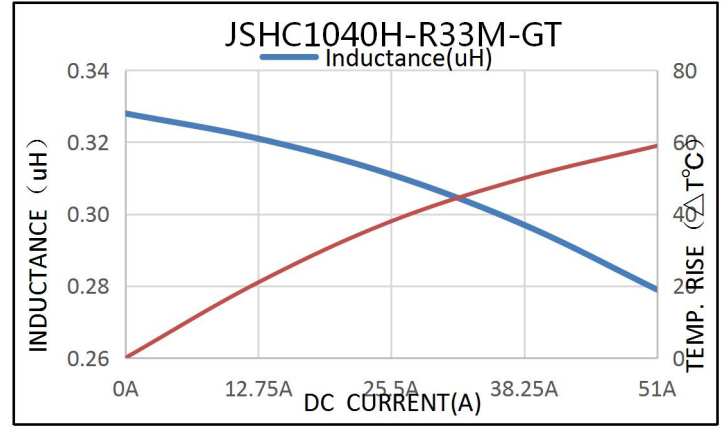
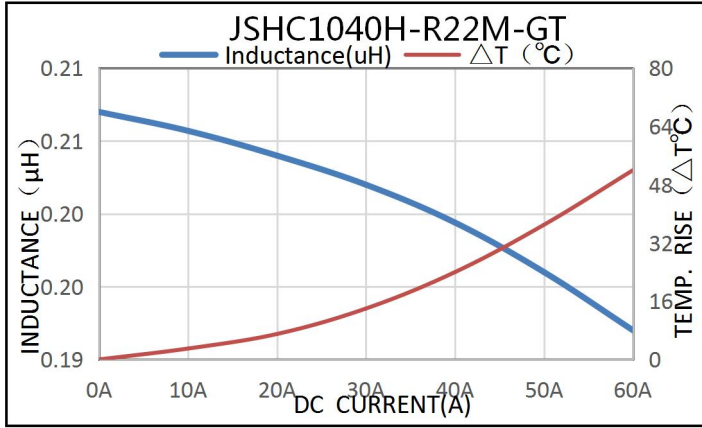
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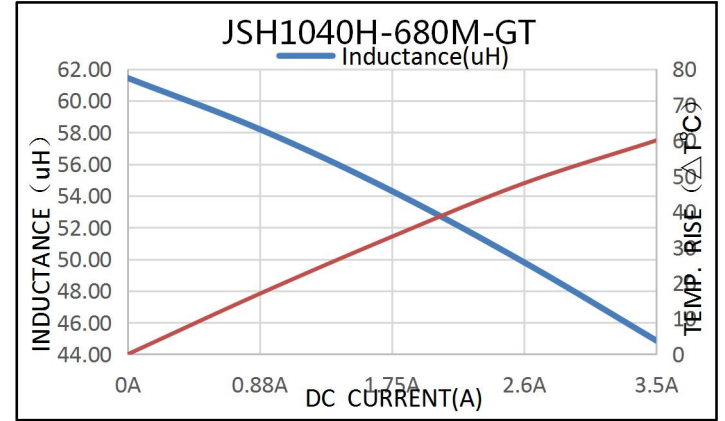
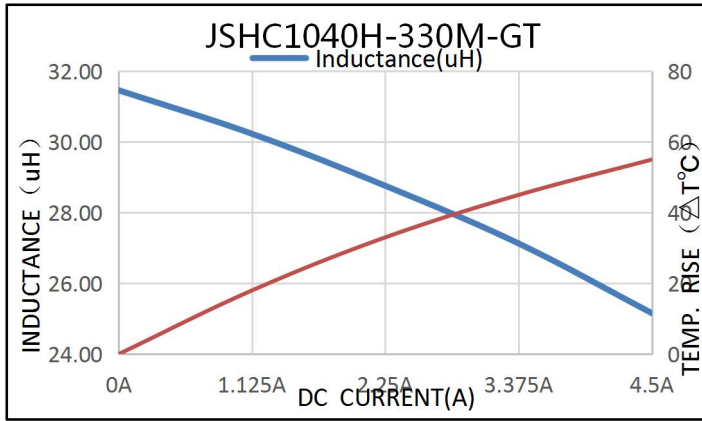
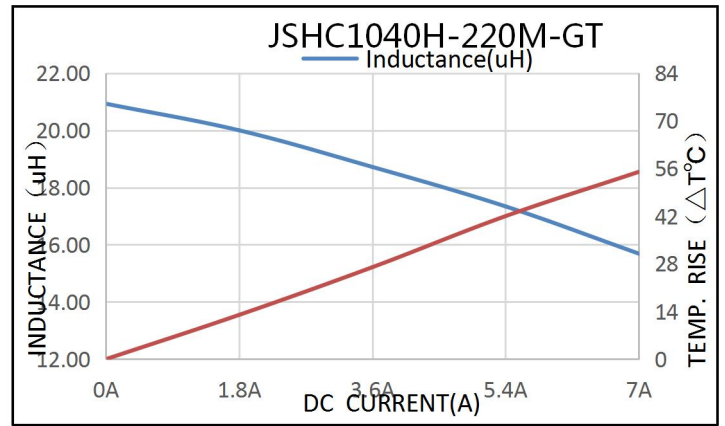
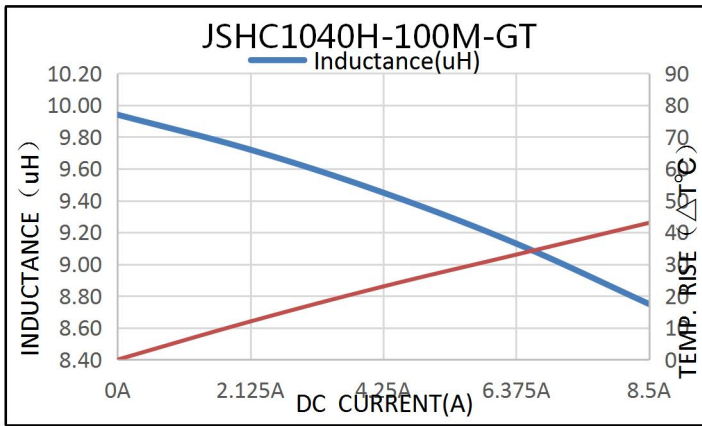
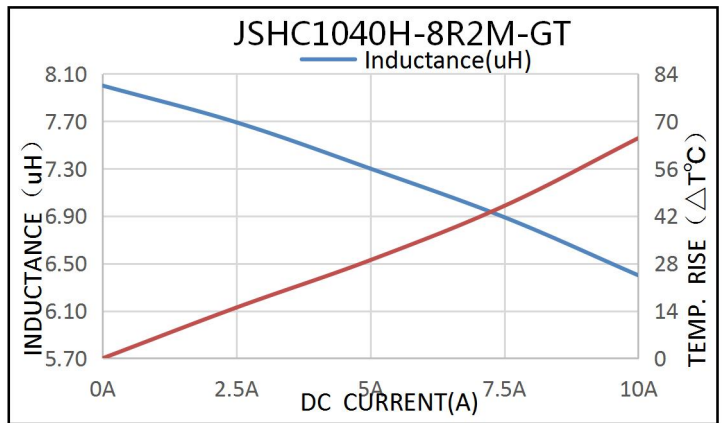
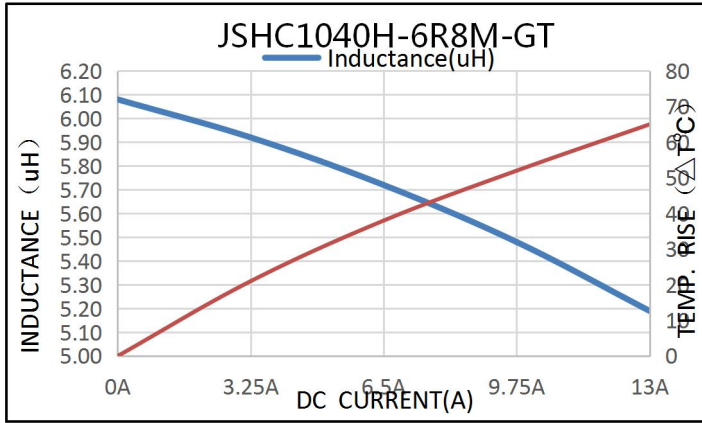
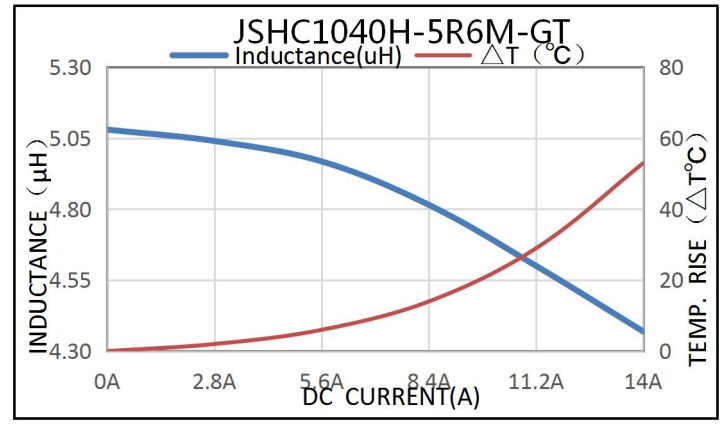
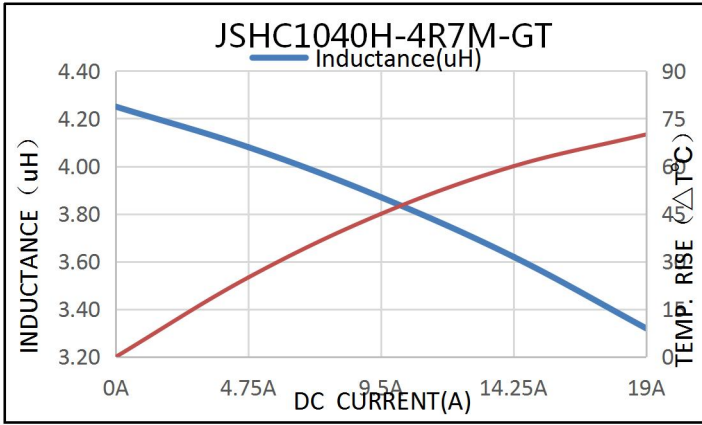
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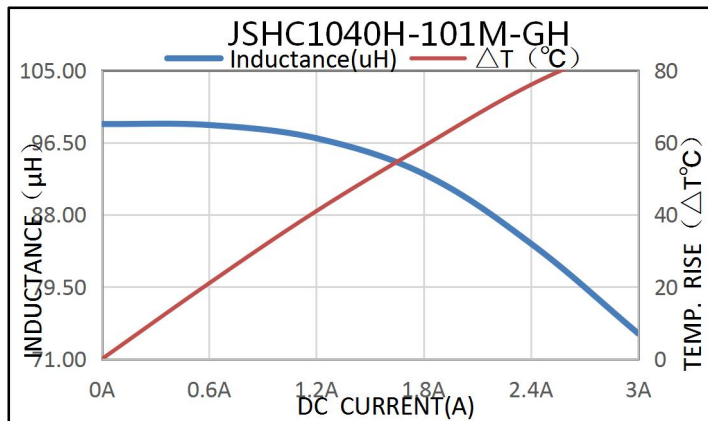
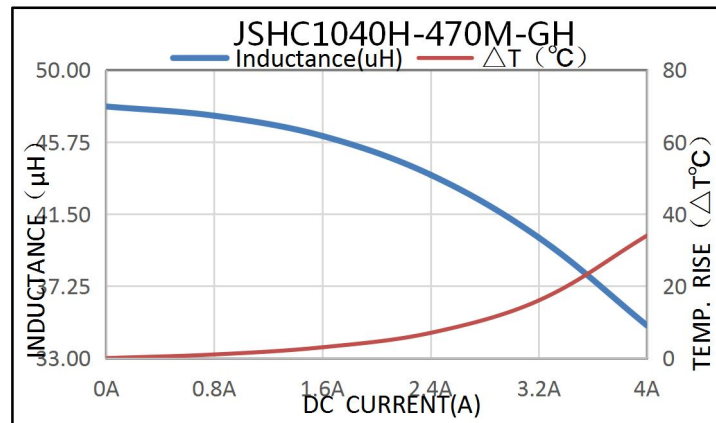
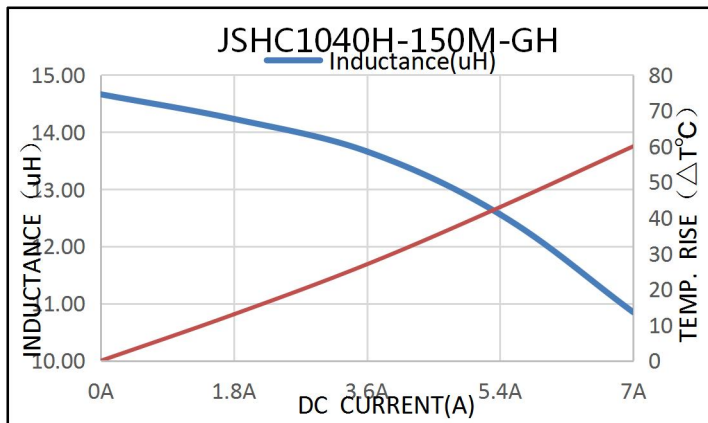
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Heat rating current VS saturation current curv







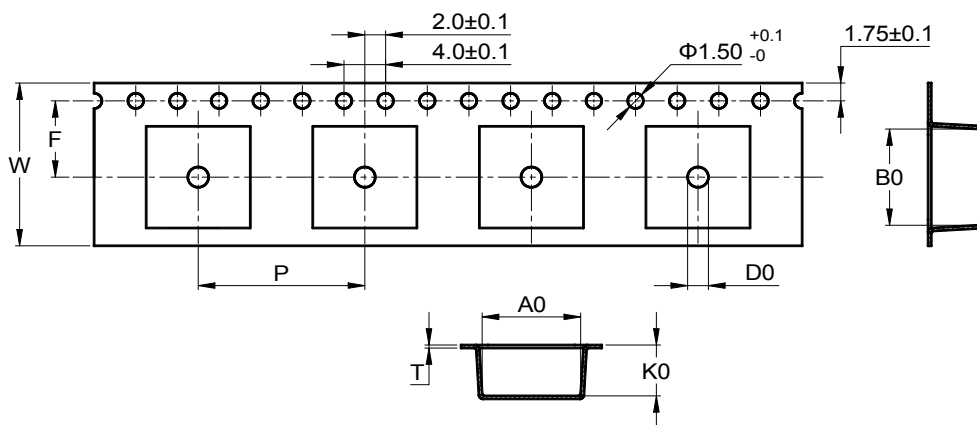


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Packaging Specifications

Carrier tape dimensions

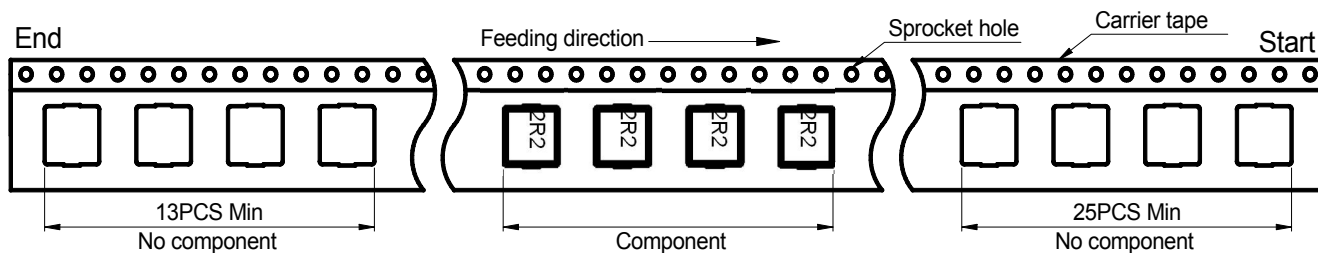
A0	10.6±0.2
B0	12.0±0.2
K0	4.3±0.15
W	24.0±0.3
P	16.0±0.1
F	11.5±0.1
T	0.40±0.05
D0	1.5±0.10



※ 包装参照国际标准 IEC 60286-3。

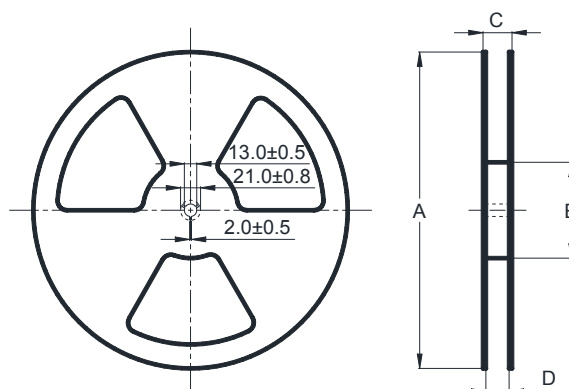
Packaging is referred to the international standard IEC 60286-3.

Packaging direction

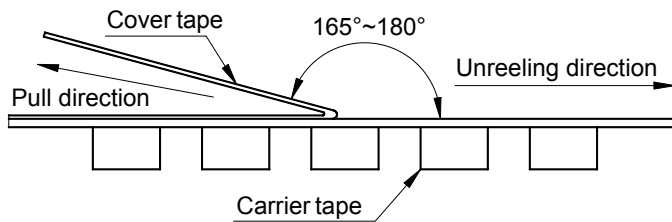
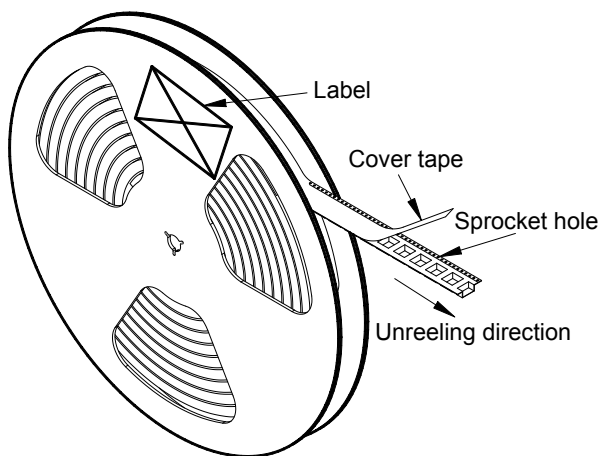


Reel dimensions

A	330 ± 2.0
B	100 Min
C	28.0Max
D	14.5 Min



Cover tape peel-off condition



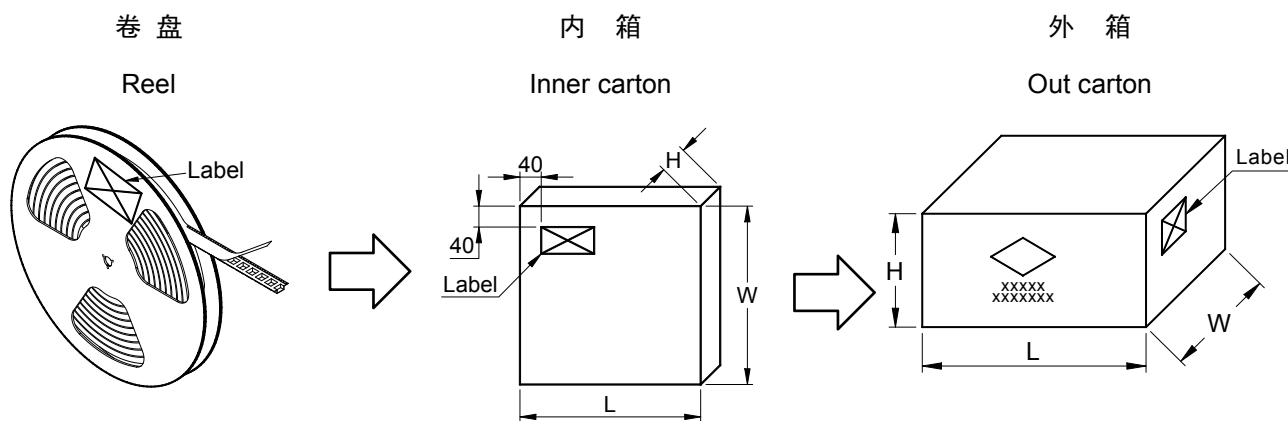
※ 盖带剥离力度为 0.1~1.3N。

Cover tape peel-off force will be 0.1 to 1.3N.

※ 参考剥离速度 300±10mm/分钟。

Reference peel-off speed 300±10mm/min.

Carton dimensions and packaging quantity



■ 内包装箱 (L×W×H)：340×340×66mm
Inner Carton

■ 外包装箱 (L×W×H)：360×360×215mm
Out Carton

SHC1040	每盘 包装数量 Per Reel Quacity	内箱 包装数量 Inner Carton Quacity	外箱 包装数量 Out Carton Quacity
	1,000 pcs	(1,000×2) = 2,000 pcs	(2,000×3) = 6,000 pcs