

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;

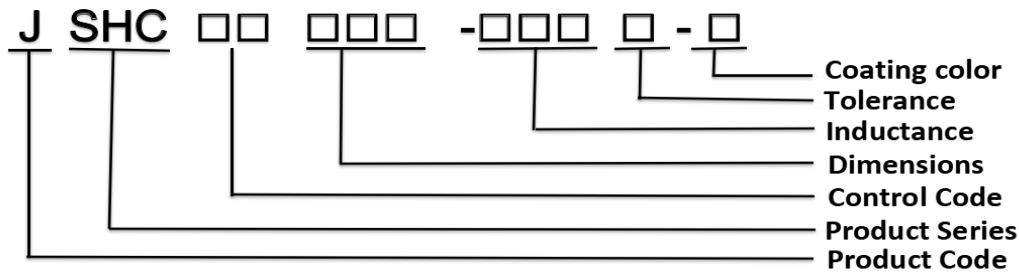
Features

- 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

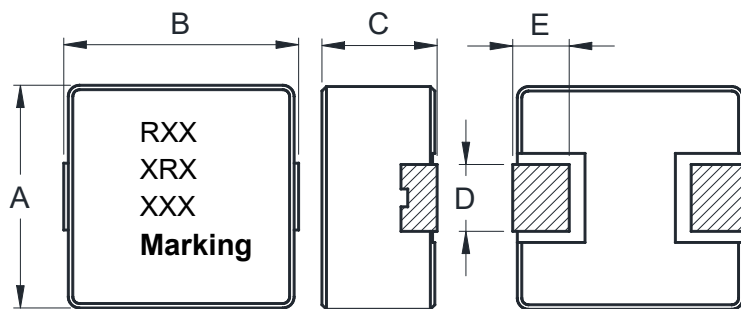
Applications

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

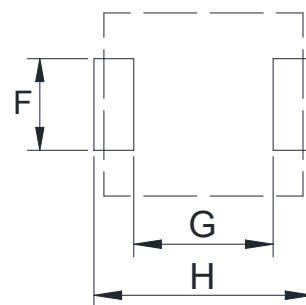
Product Identification



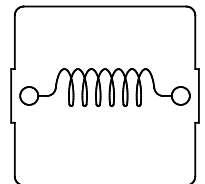
Appearance and dimensions



Reference PCB pattern



Schematic



Dimensions in mm

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

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Electrical Characteristics

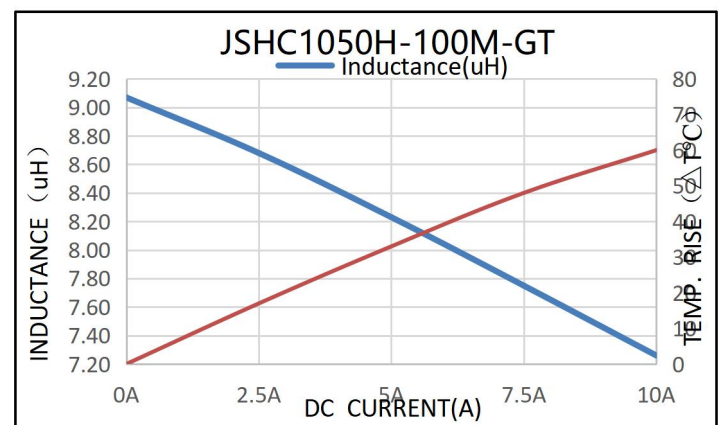
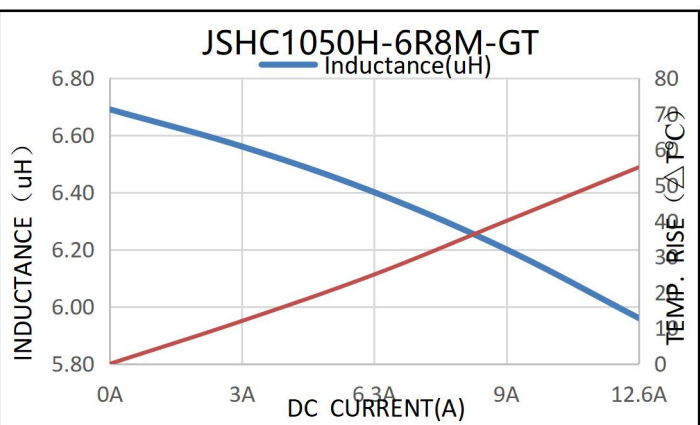
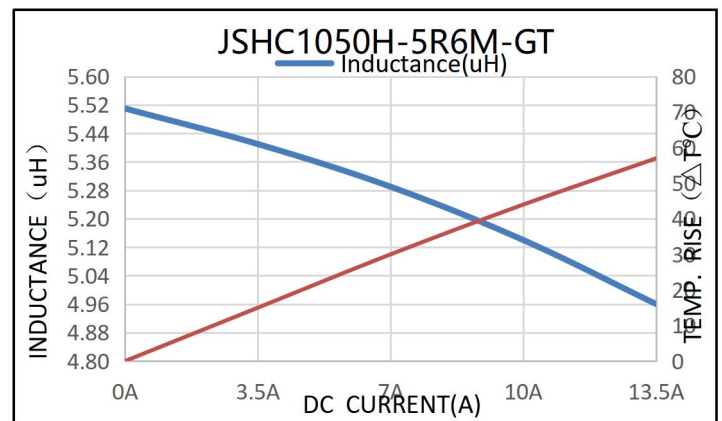
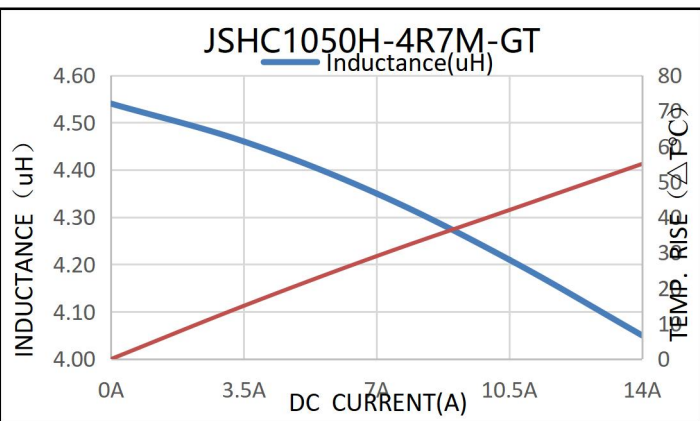
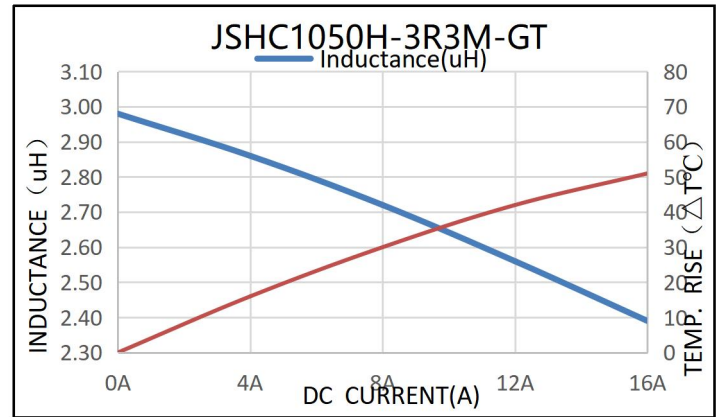
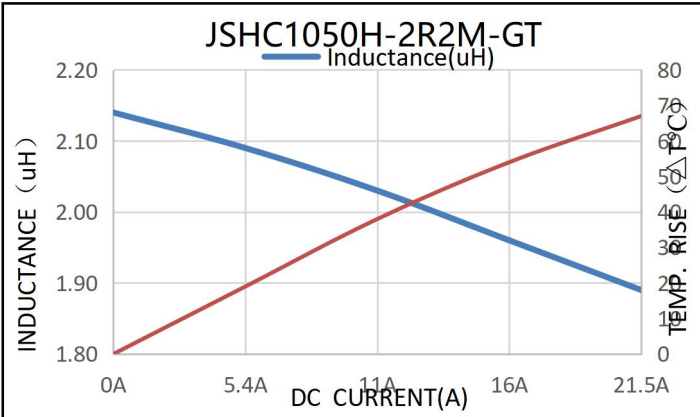
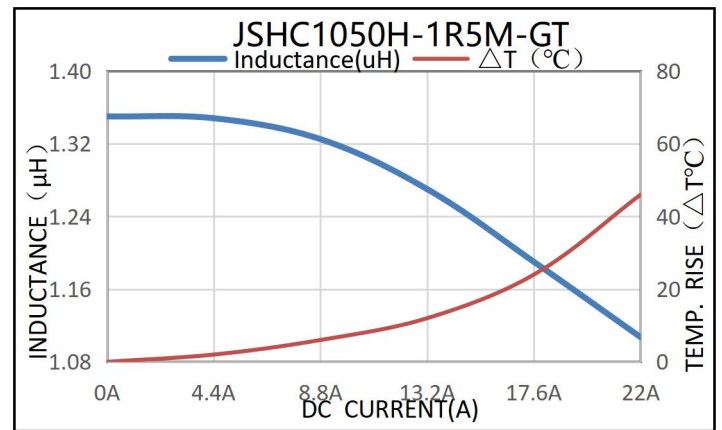
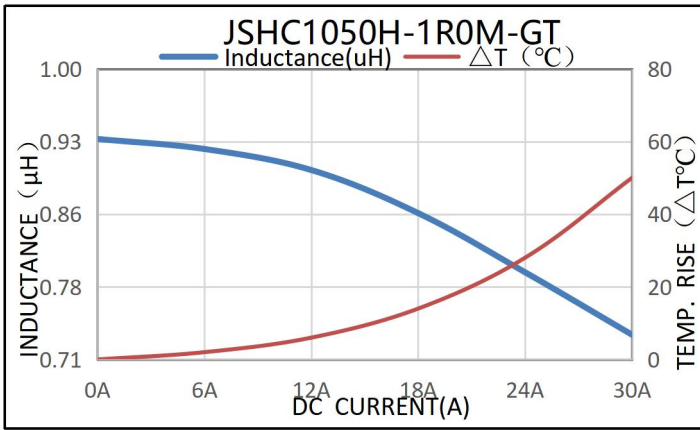
Part Number	Inductance	Tolerance	Test Frequency	RDC(m Ω)	Isat(A)	Irms(A)
	(μ H)	(\pm %)	(KHz)	Max(Typical)	Typical(Max)	Typical(Max)
JSHC1050H-1R0M-GT	1.0	20	100	2.8(2.52)	30.0(27)	18.0(16.2)
JSHC1050H-1R5M-GT	1.5	20	100	6(5.4)	22.0(19.8)	14.0(12.6)
JSHC1050H-2R2M-GT	2.2	20	100	8.5(7.65)	21.5(19.35)	12.0(10.8)
JSHC1050H-3R3M-GT	3.3	20	100	11(9.9)	16(14.4)	10.0(9)
JSHC1050H-4R7M-GT	4.7	20	100	17(15.3)	14.0(12.6)	9.0(8.1)
JSHC1050H-5R6M-GT	5.6	20	100	20(18)	13.0(11.7)	8.5(7.65)
JSHC1050H-6R8M-GT	6.8	20	100	25(22.5)	12.6(11.34)	9.0(8.1)
JSHC1050H-100M-GT	10	20	100	38(34.2)	10.0(9)	6.0(5.4)
JSHC1050H-150M-GT	15	20	100	50(45)	9.0(8.1)	5.0(4.5)
JSHC1050H-220M-GT	22	20	100	60(54)	7.0(6.3)	4.5(4.05)
JSHC1050H-330M-GT	33	20	100	105(94.5)	6.0(5.4)	3.5(3.15)
JSHC1050H-470M-GT	47	20	100	135(121.5)	4.0(3.6)	3.0(2.7)
JSHC1050H-680M-GT	68	20	100	250(225)	3.5(3.15)	3.0(2.7)

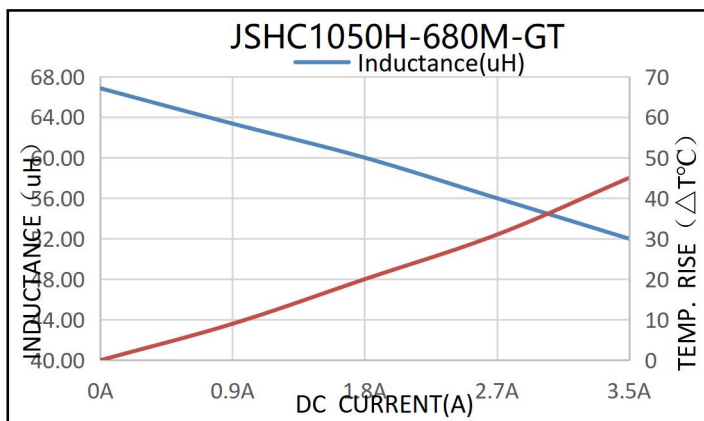
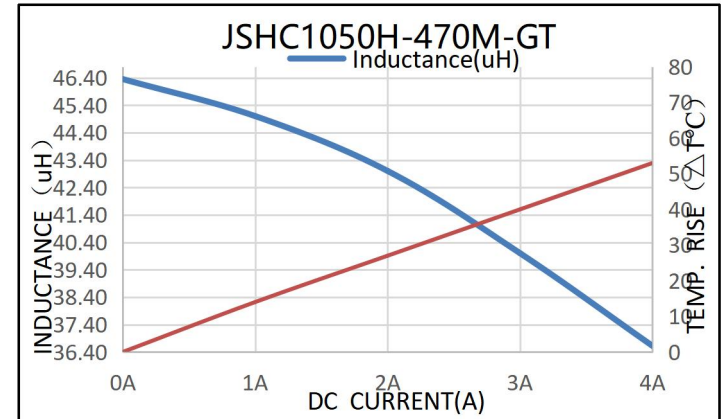
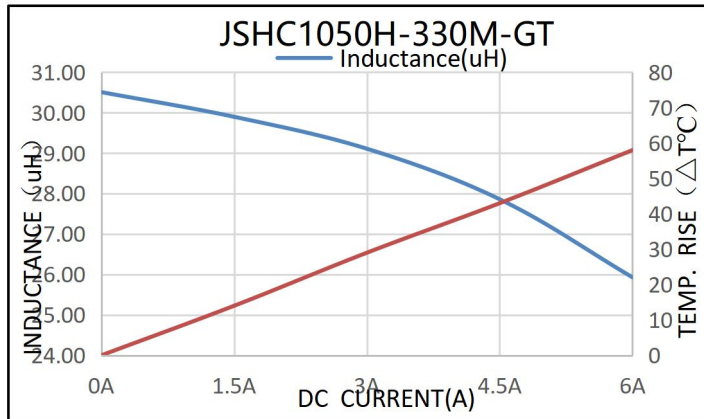
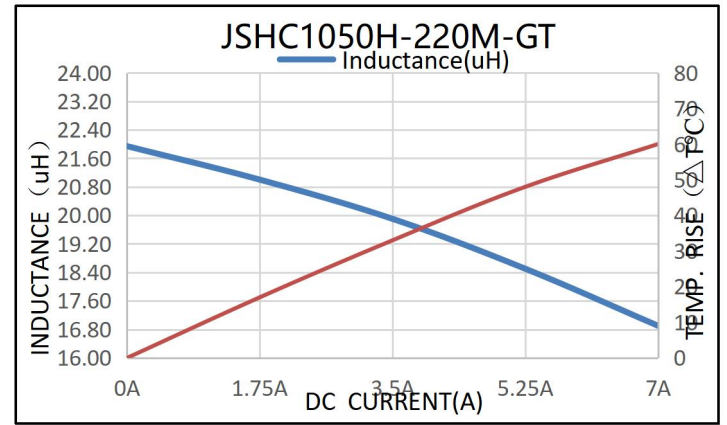
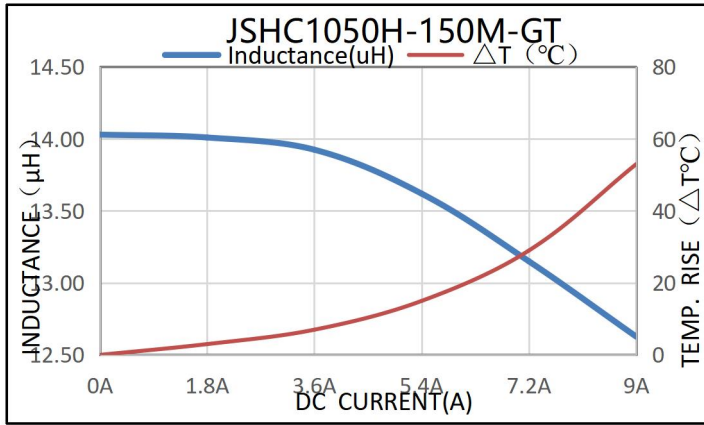
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- 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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Heat rating current VS saturation current curv



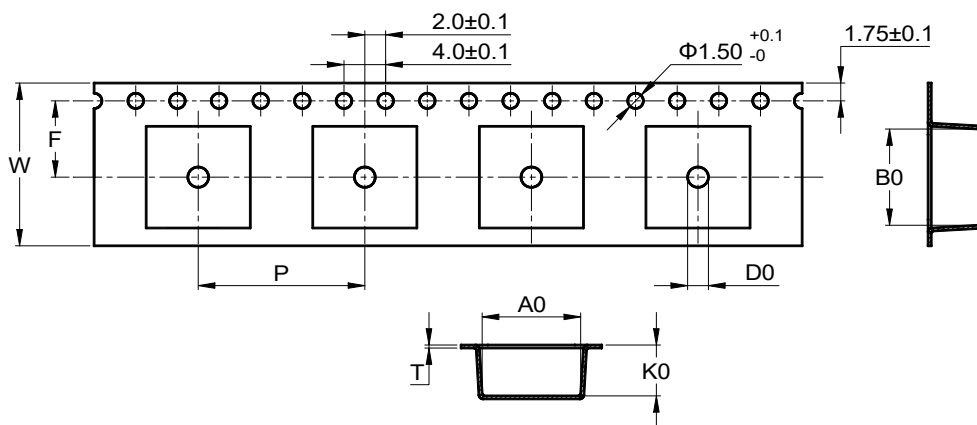


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Packaging Specifications

Carrier tape dimensions

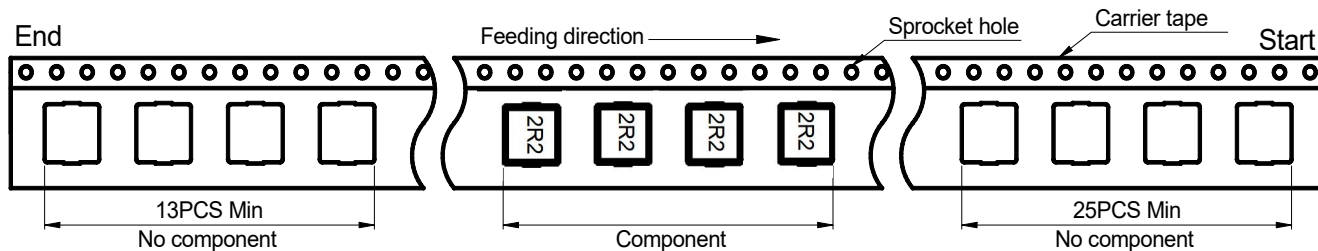
A0	10.6±0.2
B0	12.1±0.2
K0	5.4±0.1
W	24.0±0.3
P	16.0±0.1
F	11.5±0.1
T	0.40±0.05
D0	1.5±0.10



※ 包装参照国际标准 IEC 60286-3。

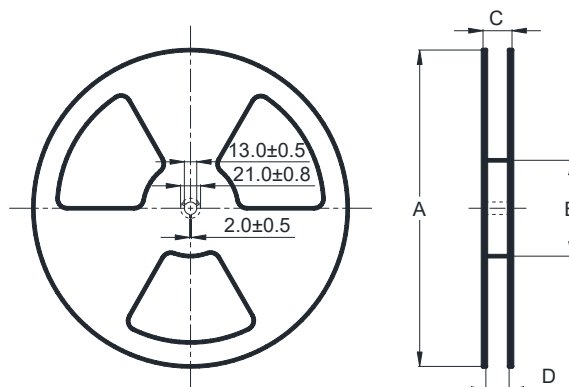
Packaging is referred to the international standard IEC 60286-3.

Packaging direction

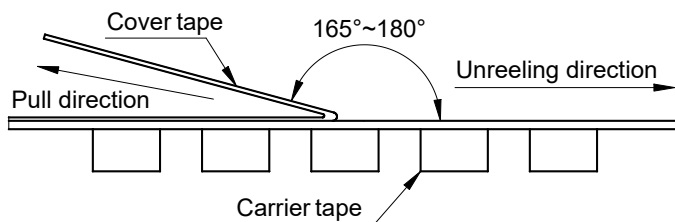
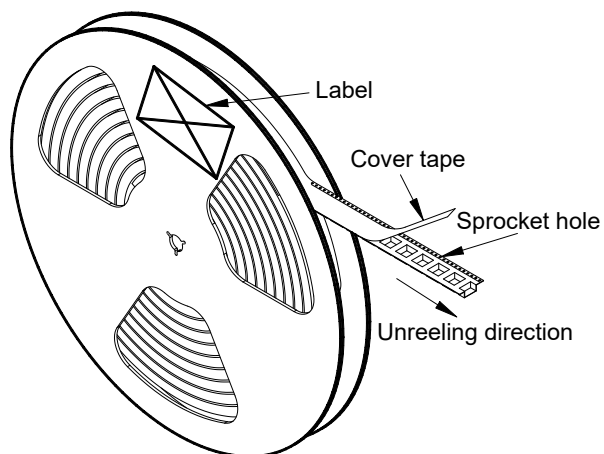


Reel dimensions

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



Cover tape peel-off condition



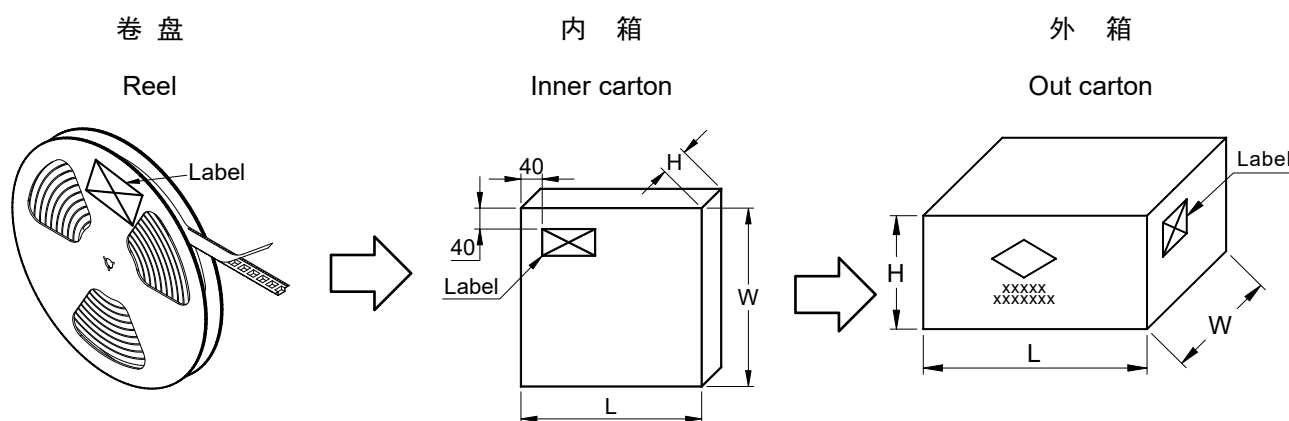
※ 盖带剥离力度为 0.1~1.3N。

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

SHC1050	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
	800 pcs	(800×2) = 1,600 pcs	(1,600×3) = 4,800 pcs