

Specification for Approval

Date: 2024/1/1

Customer: _____

BYTEK P/N: BCM9050C-SERIES

CUSTOMER P/N: _____

DESCRIPTION: _____

QUANTITY: _____ pcs

REMARK:		
Customer Approval Feedback		

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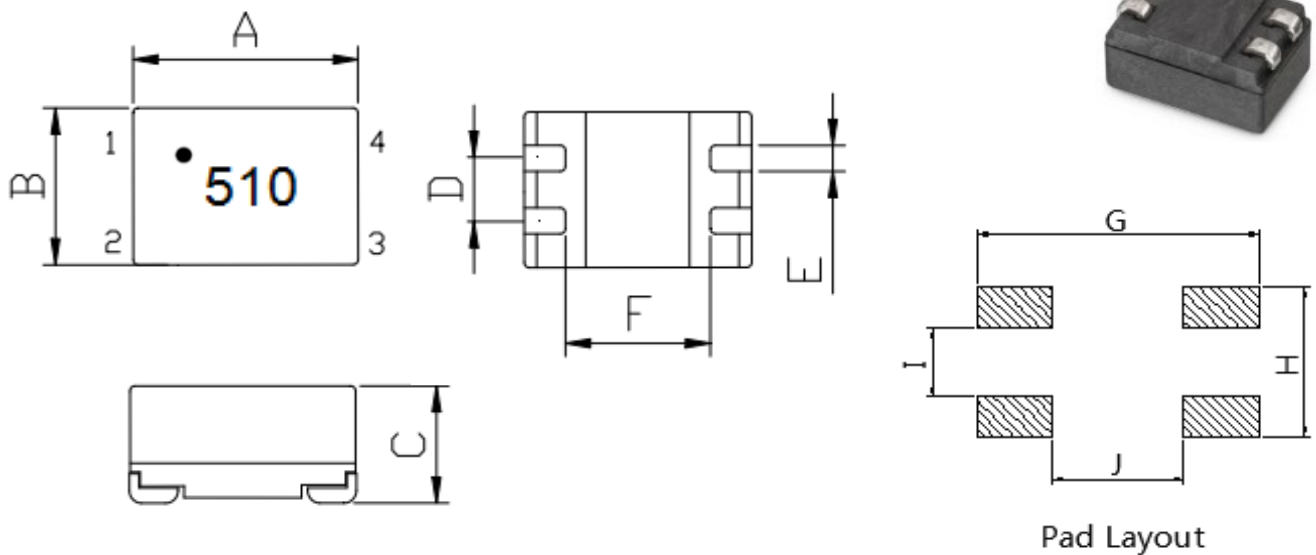
Sales Dep.

APPROVED	CHECKED
谢林阳	李昱珩

R&D Center

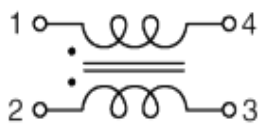
APPROVED	CHECKED	DRAWN
文睿	谢庆芬	兰静

一.外观图/DIMENSION (单位/UNIT: mm)



ITEM	A	B	C	D	E	F	G	H	I	J
DIM	9.2	6.0	5.0	2.54	1.00	5.70	9.5	3.74	1.34	5.5
TOLE	±0.3	±0.3	±0.3	±0.2	±0.1	Typ	Typ	Typ	Typ	Typ

二.电路图/CIRCUIT DIAGRAM



三.注意事项/NOTE:

- 1.印字: Gulim 6.5#,白色/激光打标
- 2.平整度: 0.1MM MAX

四.电气特性/ELECTRICAL CHARACTERISTIC

Part Number	Inductance L1=L2 (uH)		DC Resistance N1,N2(Ω)	Rated Current (A)Max.	Impedanc e (Ω) Min	Freq. range (MHz)	Rated Volt. (Vdc)Max.	IR (Ω) Min.
BCM9050C-100Y-02	10 +50%/-30%	1KHz/0.1V	0.08 Max.	1.6	300	20~200	50	10M
BCM9050C-250Y-02	25 +50%/-30%	1KHz/0.1V	0.16 Max.	1.0	600	5~100	50	10M
BCM9050C-400Y-02	40 +50%/-30%	1KHz/0.1V	0.25 Max.	0.9	800	5~100	50	10M
BCM9050C-510Y-02	51 +50%/-30%	1KHz/0.1V	0.32 Max.	0.8	1000	5~50	50	10M
BCM9050C-251Y-02	250 ±50%	100KHz/5mV	0.13 Max.	1.2	600	5~50	50	10M
BCM9050C-471Y-02	470 ±50%	100KHz/5mV	0.14 Max.	1.1	800	1~50	50	10M
BCM9050C-501Y-02	500 ±50%	100KHz/5mV	0.15 Max.	1.0	900	1~40	50	10M
BCM9050C-102Y-02	1000 ±50%	100KHz/5mV	0.31 Max.	0.8	1000	1~30	50	10M
BCM9050C-202Y-02	2000 ±50%	100KHz/5mV	0.42 Max.	0.6	3000	1~10	50	10M

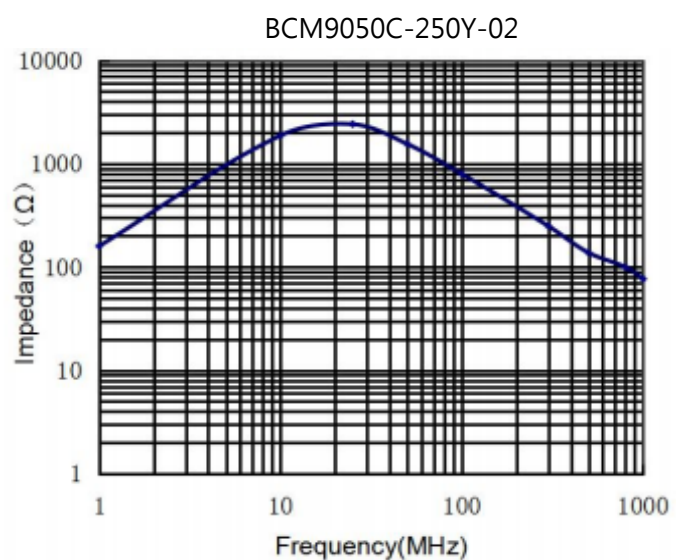
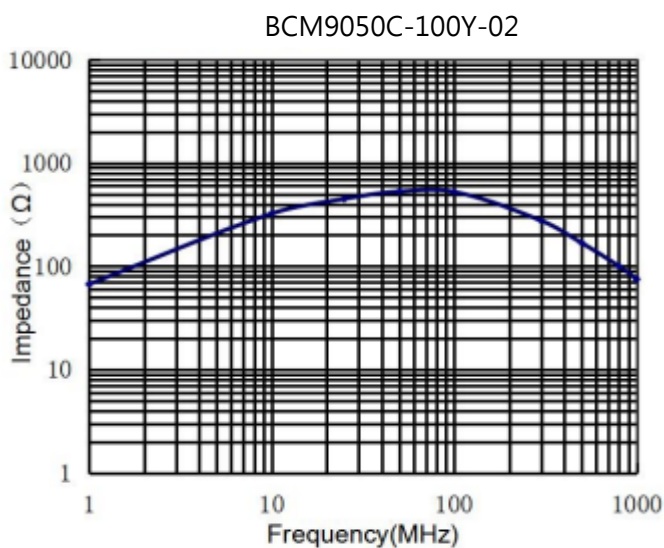
Part Number	Inductance L1=L2 (uH)		DC Resistance N1,N2(Ω)	Rated Current (A)Max.	Impedanc e (Ω) Min	Freq. range (MHz)	Rated Volt. (Vdc)Max	IR (Ω) Min.
BCM9050C-472Y-02	4700 ±50%	100KHz/5mV	0.90 Max.	0.4	3000	0.5~5	50	10M
BCM9050C-652Y-02	6500 ±50%	100KHz/5mV	1.05 Max.	0.3	4000	0.3~2	50	10M

- (1).Rated Current: Temp.rise 40°C Typ
- (2).Operating Temperature: -20°C up to +80°C
- (3).Storage Temperature: -20°C up to +40°C, 75% RH max.

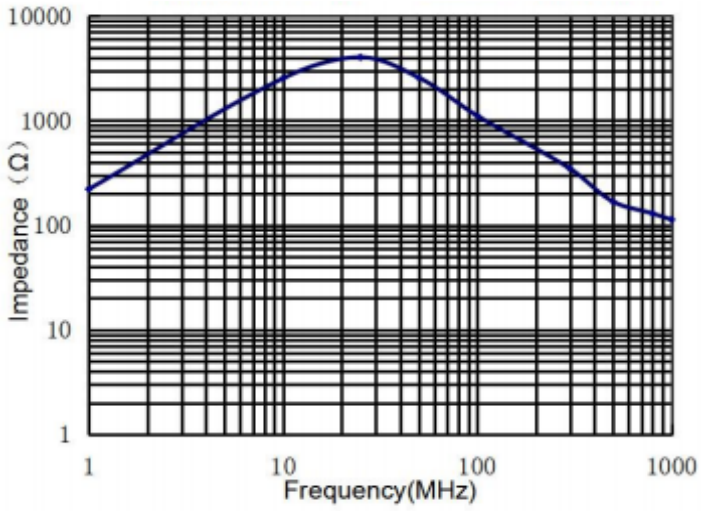
五.材料清单/MATERIAL LIST

NO.	ITEM	DESCRIPTION
1	CORE	FERRITE
2	CASE	LCP SC-0186
3	WIRE	P180 Grd1
4	ADHESIVE	XNR-3614
5	TIN	Sn100%
6	INK	WHITE

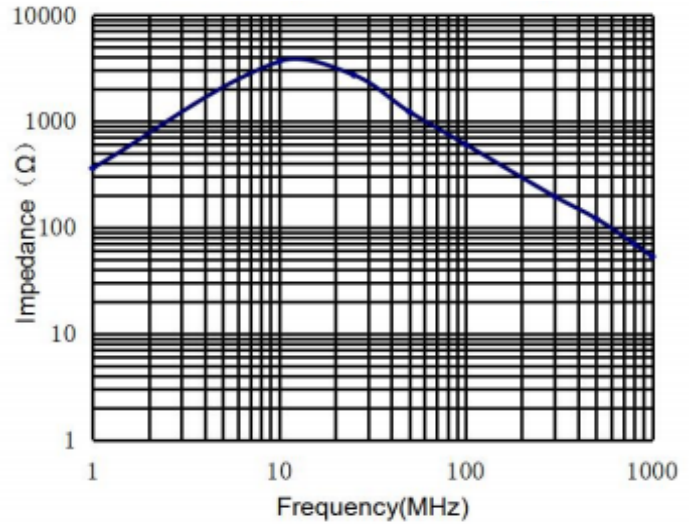
六.特征曲线/CHARACTERISTICS(REFERENCE)



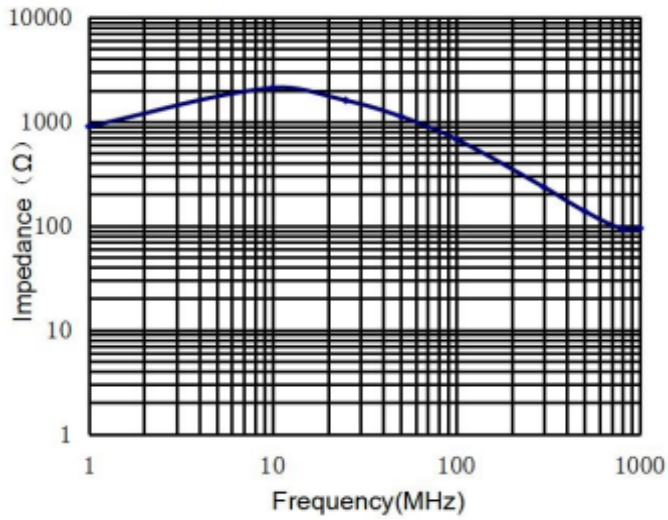
BCM9050C-400Y-02



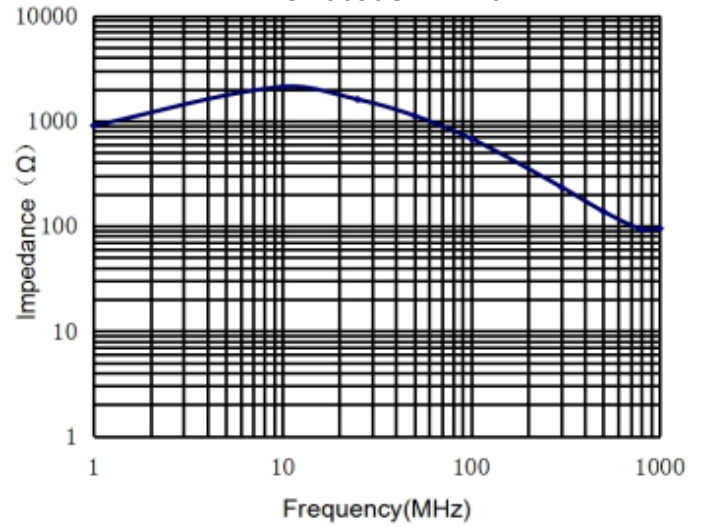
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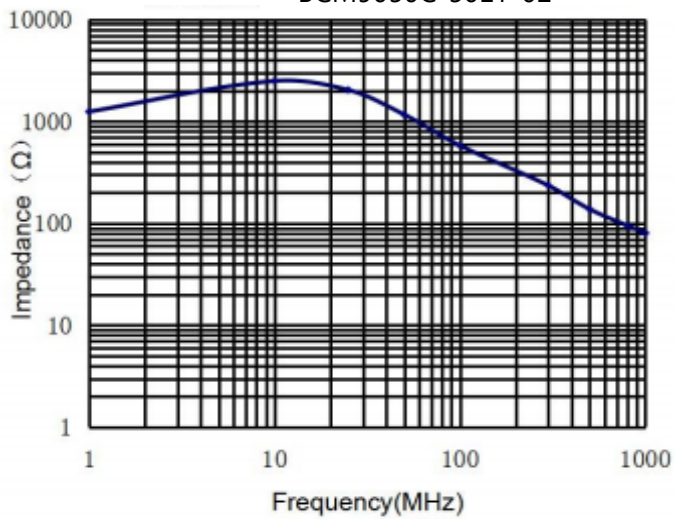
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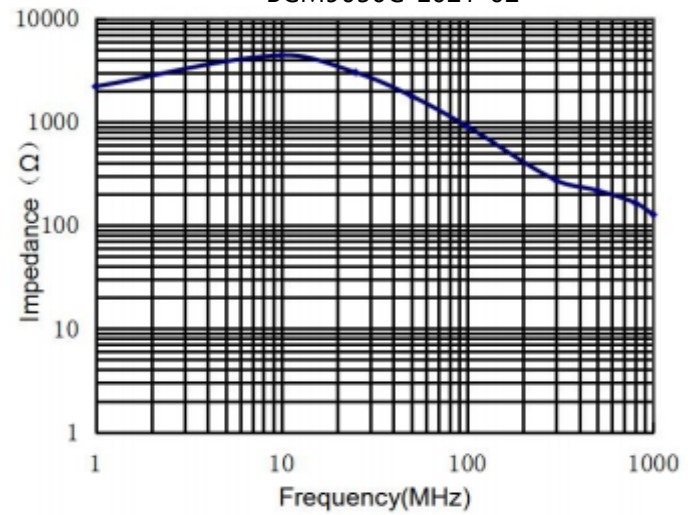
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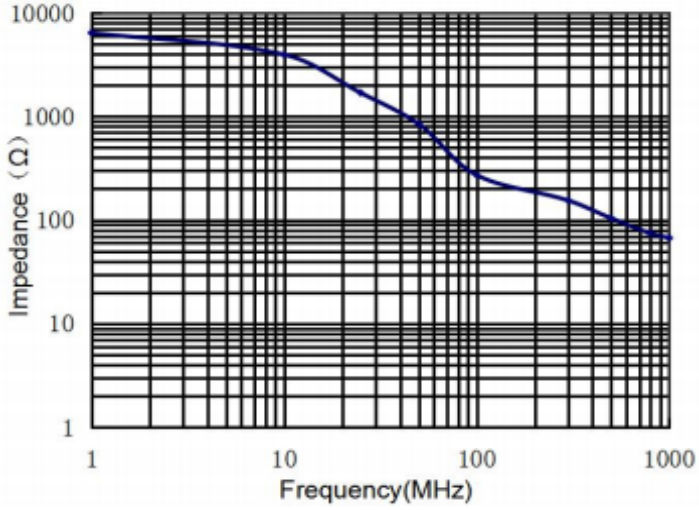
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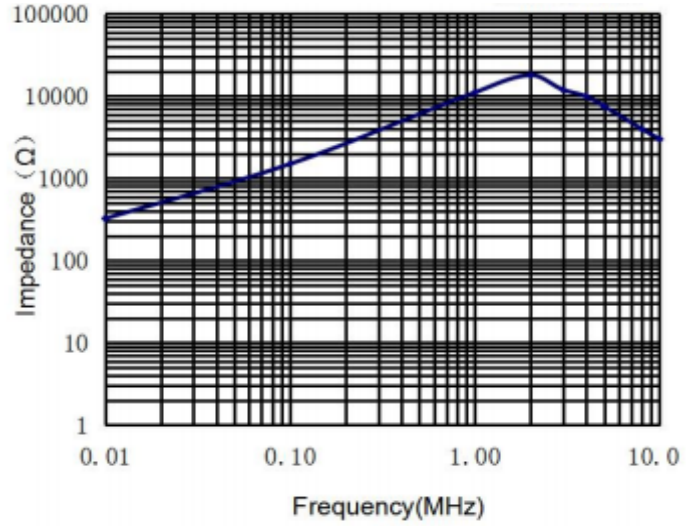
BCM9050C-102Y-02



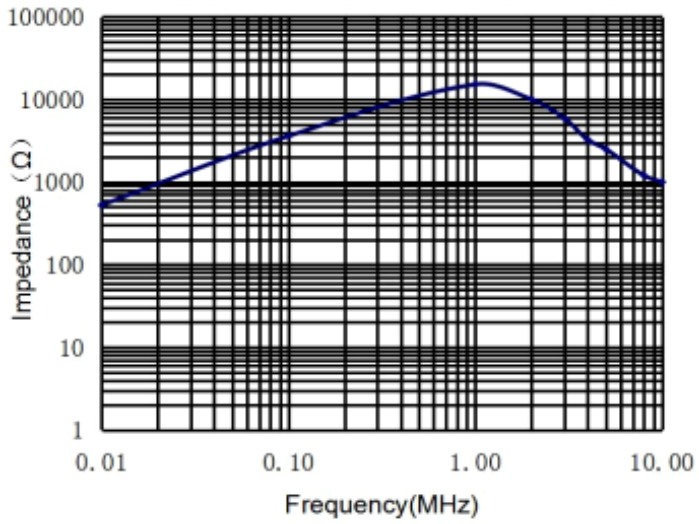
BCM9050C-202Y-02



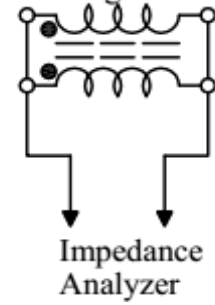
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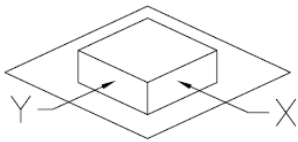
BCM9050C-652Y-02



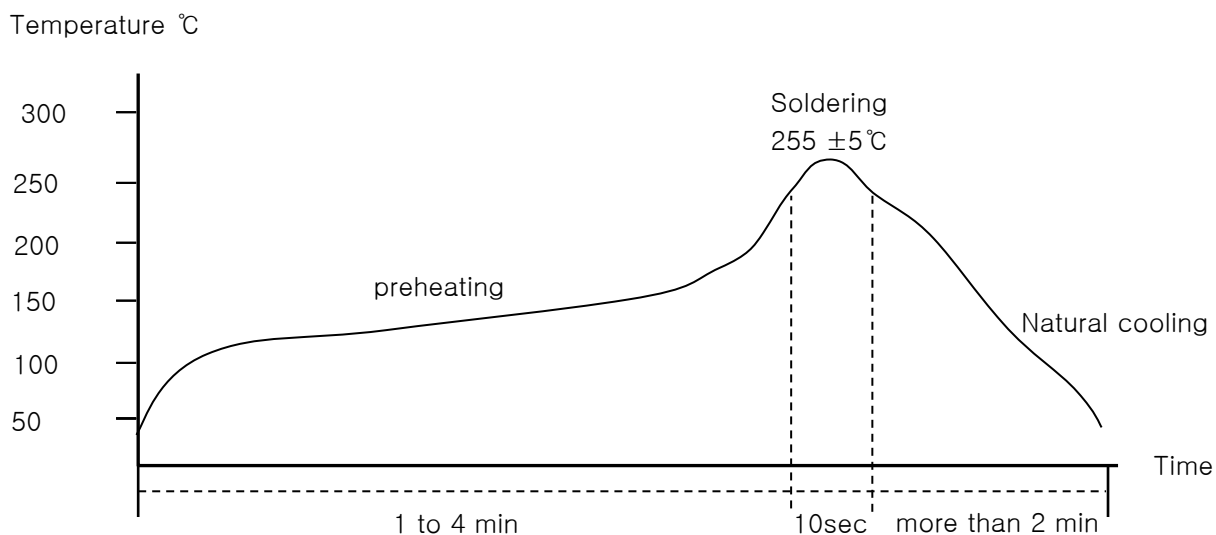
Measuring circuit :



七.可靠性测试/RELIABILITY TESTING

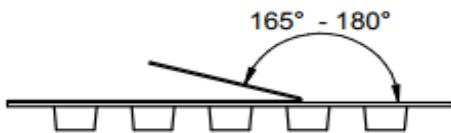
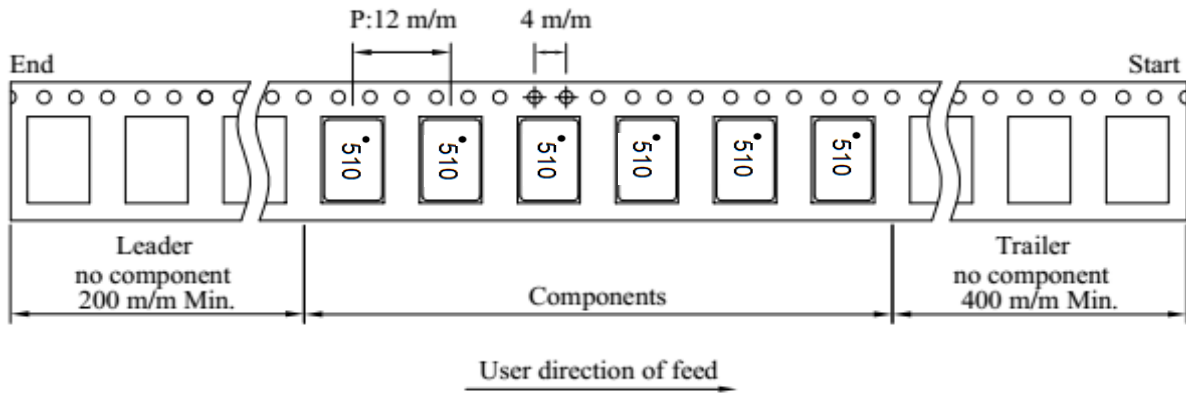
Operating Temperature	- 20 to +80 °C (Contain Heating coil)
Appearance Inspection	No external defects by visual inspection
Terminal Strength 	After soldering , between copper plaet and terminals of coils , push in two directions of X , Y with standing 10N(1.02kg) for10+/-2 sec. Terminal should not peel off. (Refer to figure at right)
Heat endurance of reflow soldering	Refer to figure
Insulating resistance	Over 100 MΩ at 100V D.C . between wire and core
Dielectric Strength	Apply at 0.5KV 3mA for 1 minute between wire and core
Temperature characteristics	Inductance coefficient (0~2,000) × 10 / °C(- 20~ + 80 °C)
Humidity characteristics	Inductance deviation within ± 10% , after 96 hours in 90~95% relative humidity at 40 ± 2 °C and 1 hours drying under normal condition
A test is made under the above mentioned condition , and it is kept for 2 hours in the normal	

IR Reflow profile

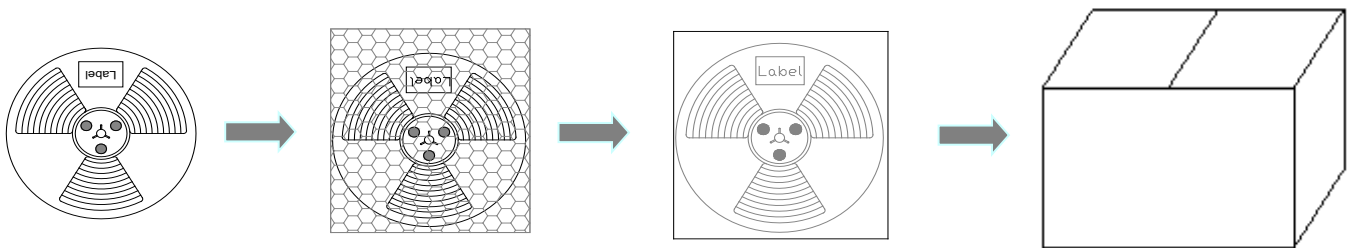


Temperature and humidity . After that , no mechanical and electrical defect should be found .

八.包装规格/PACKING SPECIFICATIONS (单位/UNIT: mm)



Tape width	Distance	Pull-of force
16 mm	12 mm	10~120g



轮盘: 13'(直径330mm)

PE袋

内盒
数量: 3000PCS/盒

外箱, 数量: 15000PCS/箱
不足整箱用内盒或填充物装满