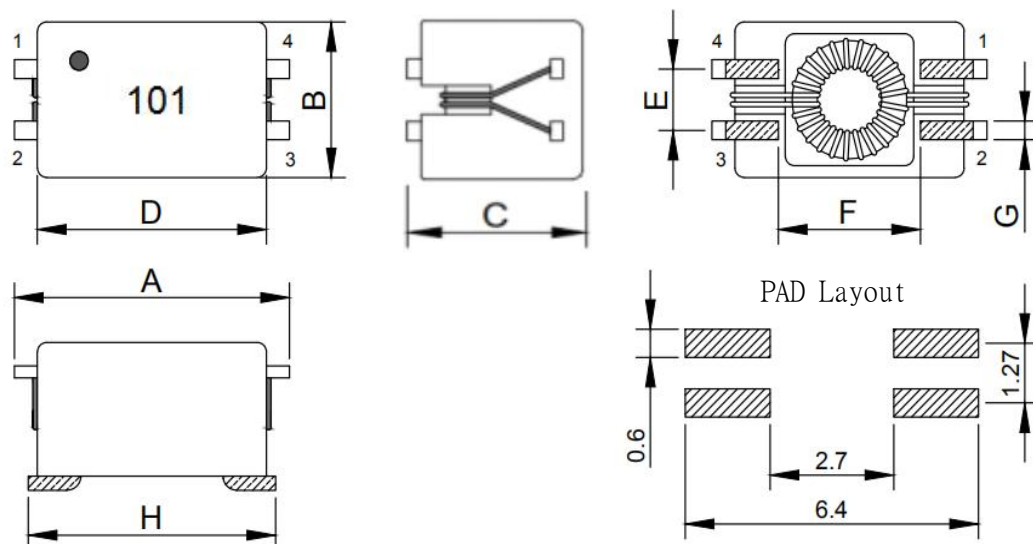


● 形状及尺寸/SHAPE AND DIMENSIONS (单位/Unit: mm)



A	B	C	D	E	F	G	H
6.0±0.3	3.3±0.3	3.3±0.3	5.0±0.3	1.3Typ	3.1Typ	0.4Typ	5.4Typ

● 产品识别/PRODUCT IDENTIFICATION:

GTCSM 0503S — 101 Y T

(1) (2) (3) (4) (5)

(1) Series

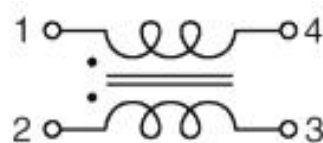
(2) Dimensions

(3) Inductance(4R5=4.5μH 510=51μH)

(4) TOL(Y= + 50%-30%)

(5) Packing

● 电路图/CIRCUIT DIAGRAM



● 注意事项/NOTE:

1. Marking为激光刻字
2. 首字正面对向CASE圆点
3. 绕线方式: 并绕

● 电气特性/ELECTRICAL CHARACTERISTIC

Part Number	Inductance 1-4=2-3 +50%-30% @10KHz/0.1V	DC Resistance 1-4=2-3 (Ω) Max	Rated Current (A) Max	Rated Voltage (V) Typ	Impedance (Ω) Typ	Hi-Pot 1,4-2,3 (Vdc) 3mA/1S	Marking
GTCSM0503S-110YT	11 μ H	0.18	0.3	80	800	250	110
GTCSM0503S-220YT	22 μ H	0.23	0.3	80	1500	250	220
GTCSM0503S-330YT	33 μ H	0.27	0.3	80	2000	250	330
GTCSM0503S-510YT	51 μ H	0.32	0.3	80	2500	250	510
GTCSM0503S-101YT	100 μ H	0.58	0.3	80	4000	250	101
GTCSM0503S-471YT	470 μ H	0.35	0.3	80	2200	250	471

Note:

(1).Rated Current: Temp.rise 40°C Typ

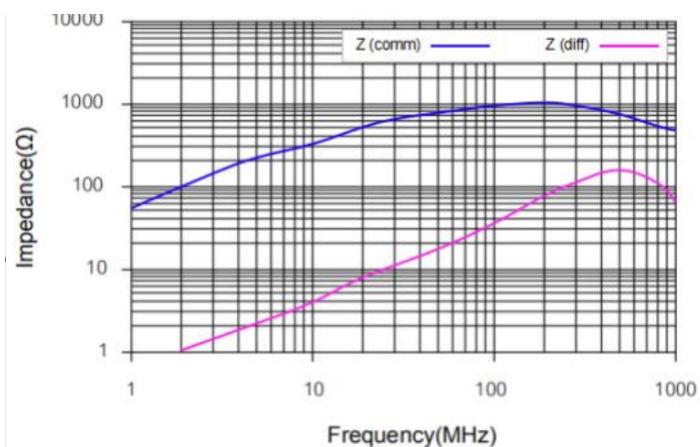
(2).Operating Temperature: -40°C up to +125°C

(3).Storage Temperature: 15°C up to 25°C, 65% RH max.

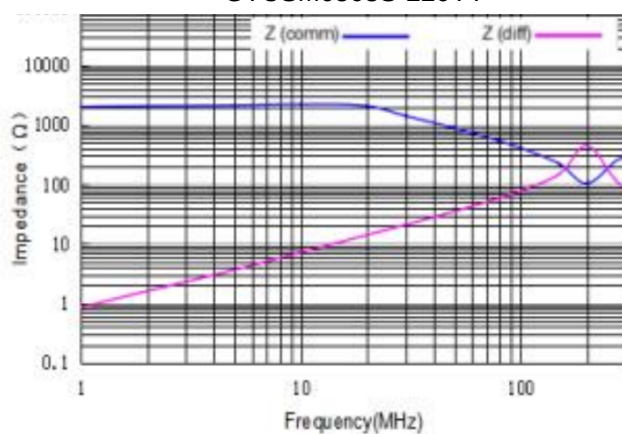
(4).The temperature of electrical characteristic test is 25°C indoor temperature

● 特征曲线/CHARACTERISTICS(REFERENCE)

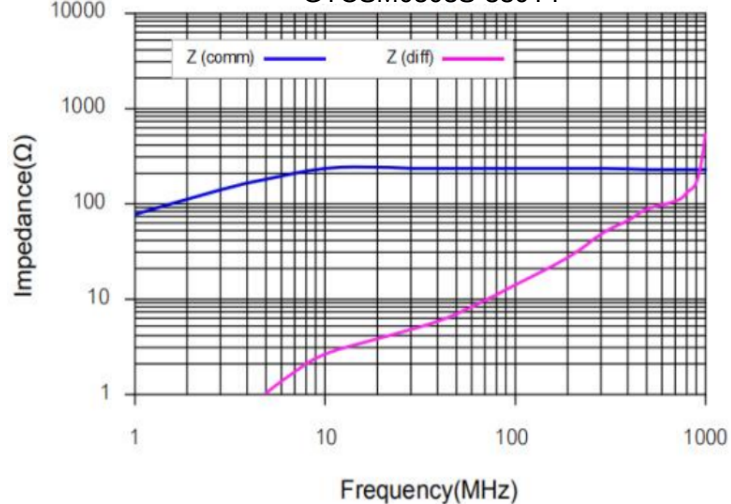
GTCSM0503S-110YT



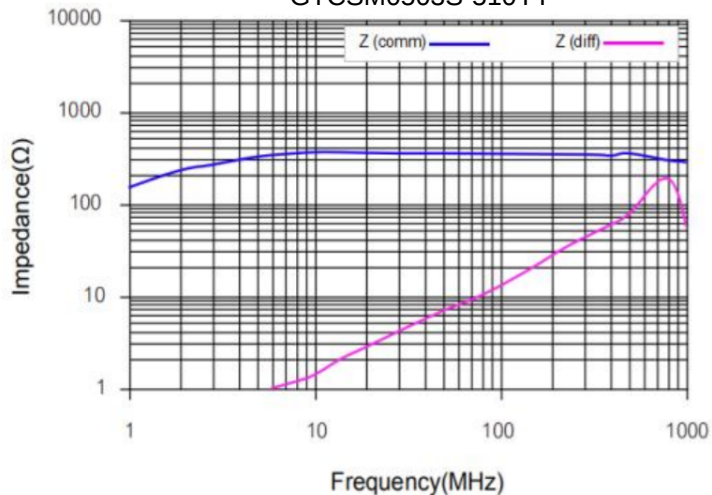
GTCSM0503S-220YT



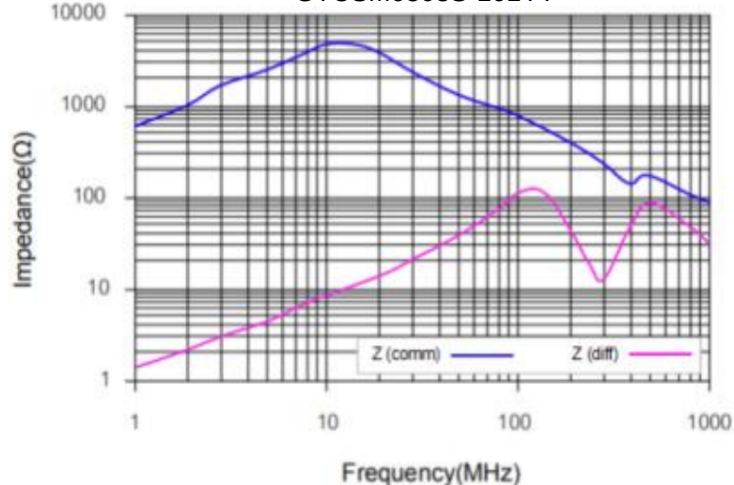
GTCSM0503S-330YT



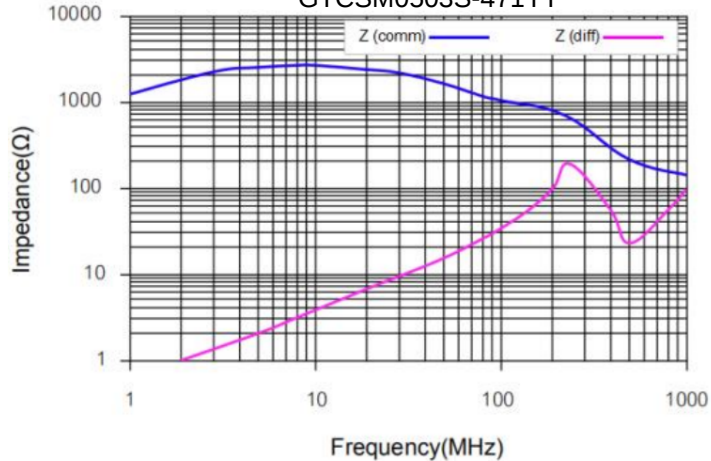
GTCSM0503S-510YT



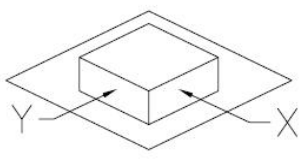
GTCSM0503S-101YT



GTCSM0503S-471YT

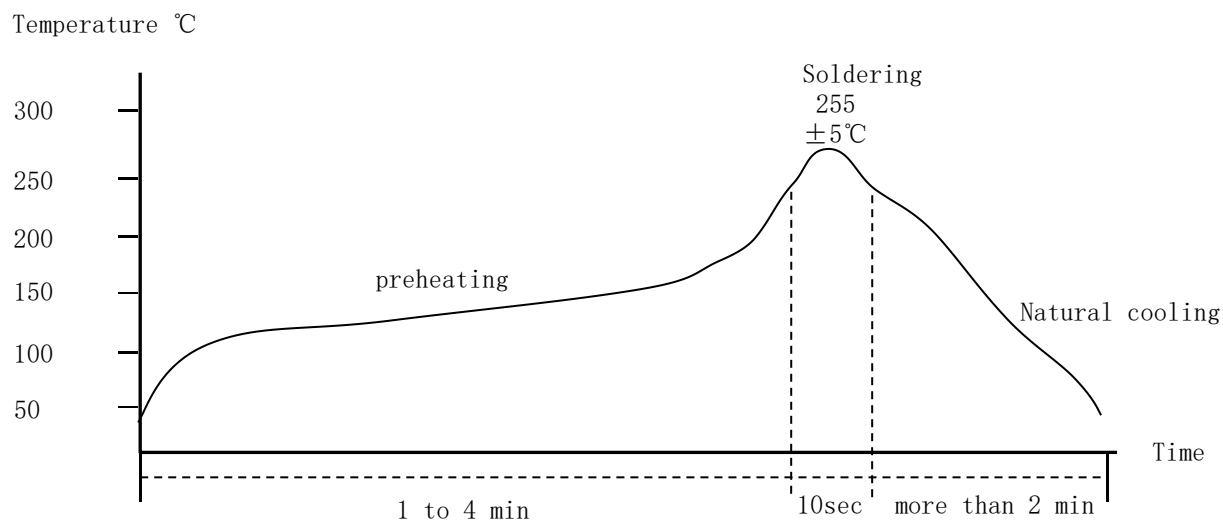


● 可靠性测试/RELIABILITY TESTING

Operating Temperature	- 40 to +125 °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 10 MΩ at 50V D.C . between wire and core
Dielectric Strength	Apply at 0.5KV 1mA for 3S between wire and core
Temperature characteristics	Inductance coefficient (0~2,000) × 10 / °C(- 40~ + 125 °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

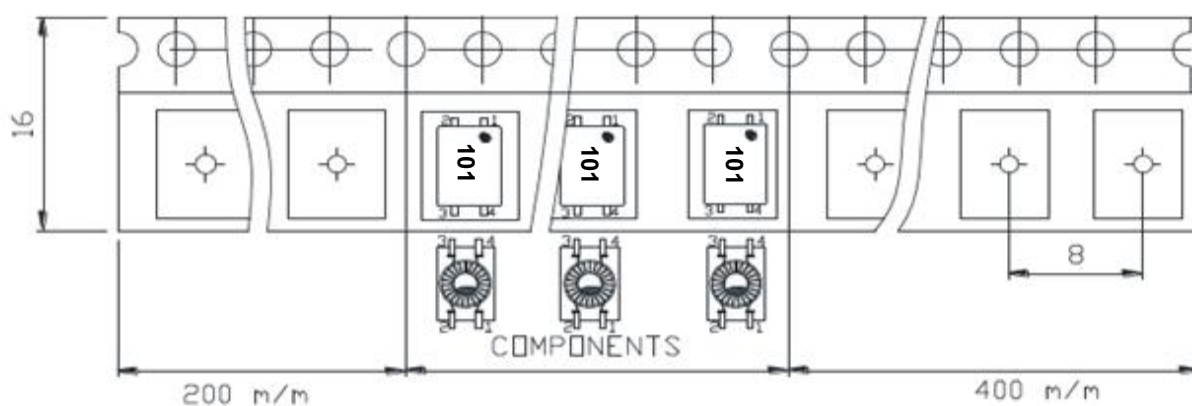


Temperature and humidity . After that , no mechanical and electrical defect should be found .

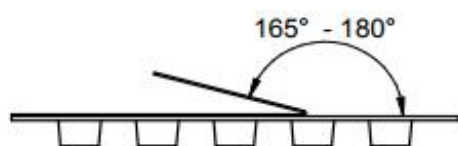
● 材料清单/MATERIAL LIST

NO.	ITEM	DESCRIPTION
1	CORE	FERRITE
2	CASE	PLASTIC+C5191(PIN)
3	WIRE	P180 Grd1
4	ADHESIVE	EPOXY RESIN
5	SOLDER	LEAD-FREE

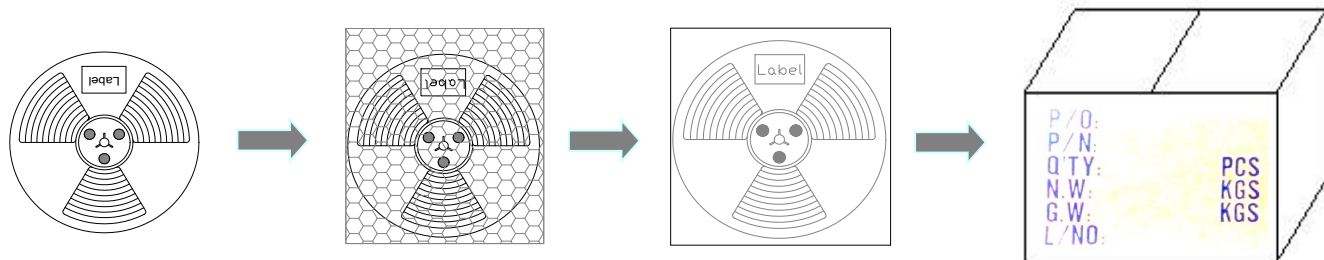
● 包装规格/PACKING SPECIFICATIONS



Transparent carrier and cover tape/透明载带和自粘上带，预留前40CM后20CM.



Tape width	Distance	Pull-of force
16 mm	8mm	10~120g



轮盘：13'（直径330mm）
数量：2000PCS/盘

PE袋
数量：2000PCS/袋

内盒
数量：6000PCS/盒

外箱，数量：30000PCS/箱
不足整箱用内盒或填充物
装满