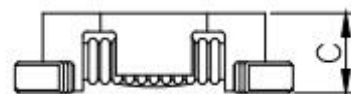
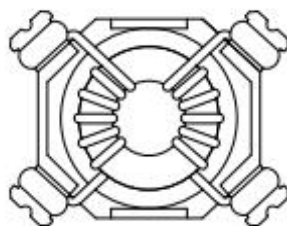
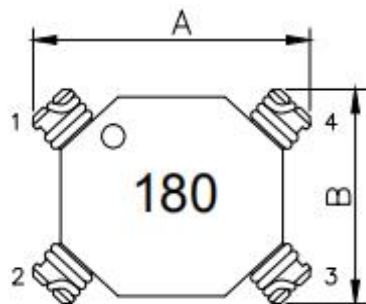
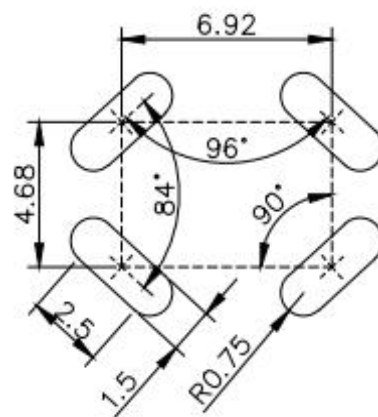


● 形状及尺寸/SHAPE AND DIMENSIONS (单位/Unit: mm)



A	B	C
9.4 Max	7.2 Max	2.6 Max

Pad Layout



● 产品识别/PRODUCT IDENTIFICATION:

GTCSM 0903C — 180 D T
(1) (2) (3) (4) (5)

- (1) Series
- (2) Dimensions
- (3) Inductance
- (4) TOL:D min
- (5) Packaging Code: Taping Reel

● 注意事项/NOTE: 印字颜色: 白色

● 电路图/CIRCUIT DIAGRAM



● 电气特性/ELECTRICAL CHARACTERISTIC

Part Number	Inductance 1-2=4-3 @100KHz/0.1V	Leakage Inductance @100KHz/0.1V	DC Resistance 1-2=4-3 (m Ω)	Rated Current 1-2=4-3 (A)Max.	Hi-Pot 1,2-3,4 (Vdc) 3mA/1S
GTCSM0903C-4R5DT	4.5uH Min	0.05uH Typ	9.0Typ.	5.5	500
GTCSM0903C-8R0DT	8.0uH Min	0.09uH Typ	4.0Typ.	5.7	500
GTCSM0903C-120DT	12.6uH Min	0.14uH Typ	12Typ. 20Max.	4.1	500
GTCSM0903C-180DT	18uH Min	0.20uH Typ	8.9Typ.	3.8	500
GTCSM0903C-200DT	20uH Min	0.25uH Typ	9.3Typ.	3.7	500
GTCSM0903C-250DT	25uH Min	0.28uH Typ	10.0Typ.	3.6	500
GTCSM0903C-330DT	32.8uH Min	0.36uH Typ	13.8Typ.	3.1	500
GTCSM0903C-410DT	41.5uH Min	0.45uH Typ	19.0	2.6	500
GTCSM0903C-470DT	47uH Min	0.52uH Typ	23.0	2.5	500
GTCSM0903C-510DT	51.2uH Min	0.56uH Typ	26.0	2.2	500
GTCSM0903C-620DT	62uH Min	0.68uH Typ	35.0	1.9	500
GTCSM0903C-730DT	73.7uH Min	0.81uH Typ	48.0	1.65	500
GTCSM0903C-101DT	100uH Min	1.1uH Typ	70.0	1.35	500
GTCSM0903C-131DT	131uH Min	1.45uH Typ	100.0	1.15	500
GTCSM0903C-161DT	166uH Min	1.83uH Typ	138.0	1.0	500
GTCSM0903C-201DT	205uH Min	2.25uH Typ	186.0	0.85	500

(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.

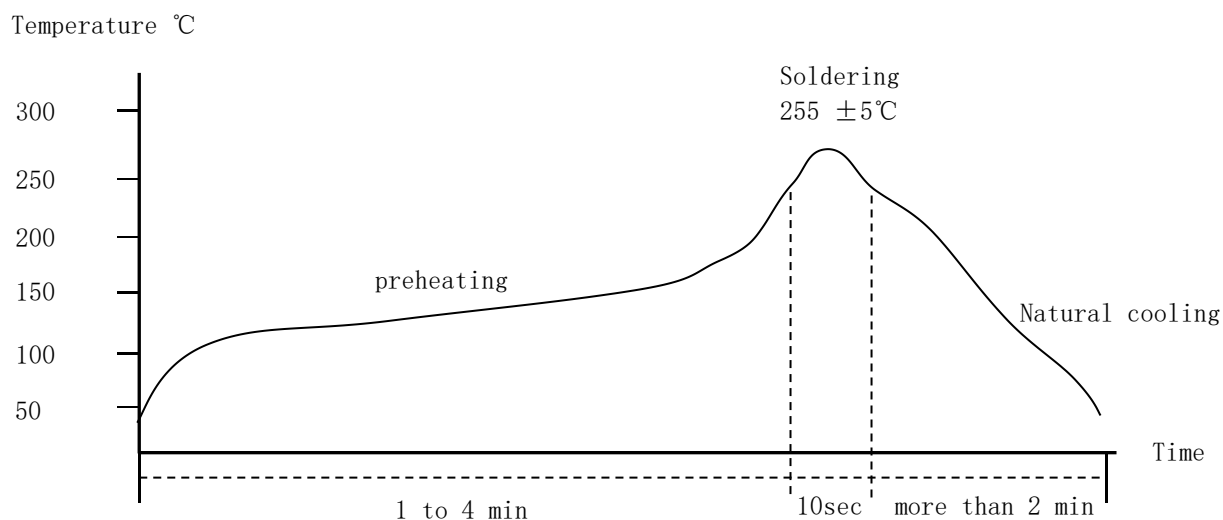
(4).The temperature of electrical characteristic test is 25 °C indoor temperature

● 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 3mA for 1S 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

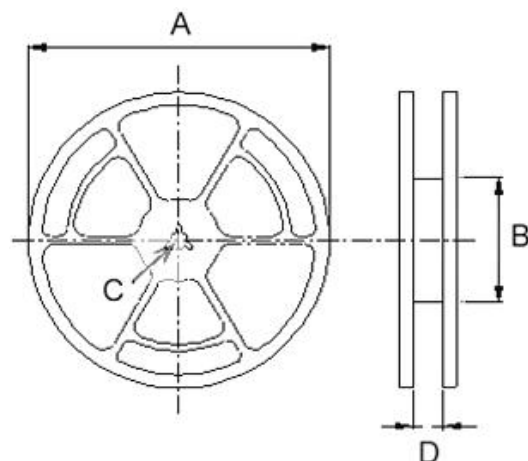
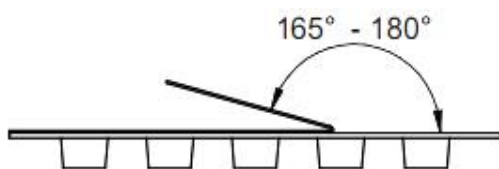
IR Reflow profile



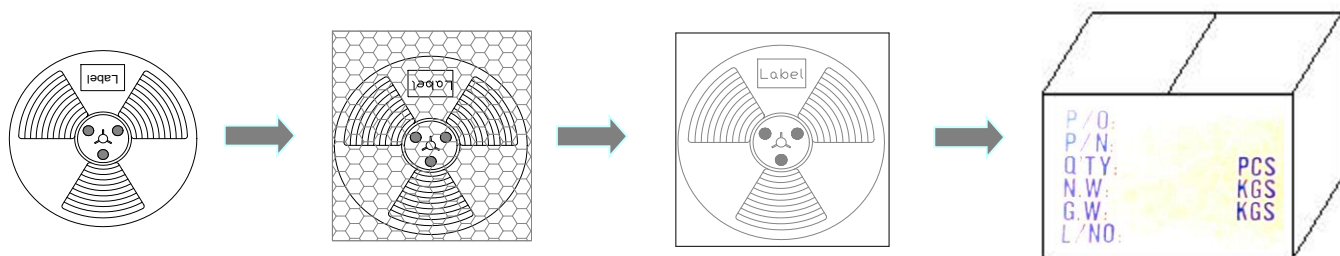
Temperature and humidity . After that , no mechanical and electrical defect should be found .

[illegible]

Tape width	Distance	Pull-of force
16 mm	12 mm	20~120g



Reel Dimensions (Unit: mm)				Quantity
A	B	C	D	Pcs/Reel
330	100	13	16.5	2000



外箱，数量：18000PCS/箱
不足整箱用内盒或填充物装满