



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet

Product Description: Dielectric Filter 3500MHz BW 200MHz Size7.48x4.42mm
TST Parts No.: TR0132AA0090

Customer Parts No.: _____

Customer signature required
Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Nina Chen *Nina Chen*

Approved by: _____ Kazuma Lee *Kazuma Lee*

Date: _____ 2023/07/07

1. Customer signed back is required before TST can proceed with sample build and receive orders.
2. Orders received without customer signed back will be regarded as agreement on the specifications.
3. Any specifications changes must be approved upon by both parties and a new revision of specifications shall be released to reflect the changes.



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Dielectric Filter 3500MHz BW 200MHz Size 7.48x4.42mm

MODEL NO.: TR0132AA0090

REV. NO.:1.0

A. Maximum Rating:

1. Input Power:2W
2. Operating Temperature: -40°C to +85°C
3. Storage Temperature: 0°C to +40°C
4. Moisture Sensitivity Level: 2a(MSL 2a)

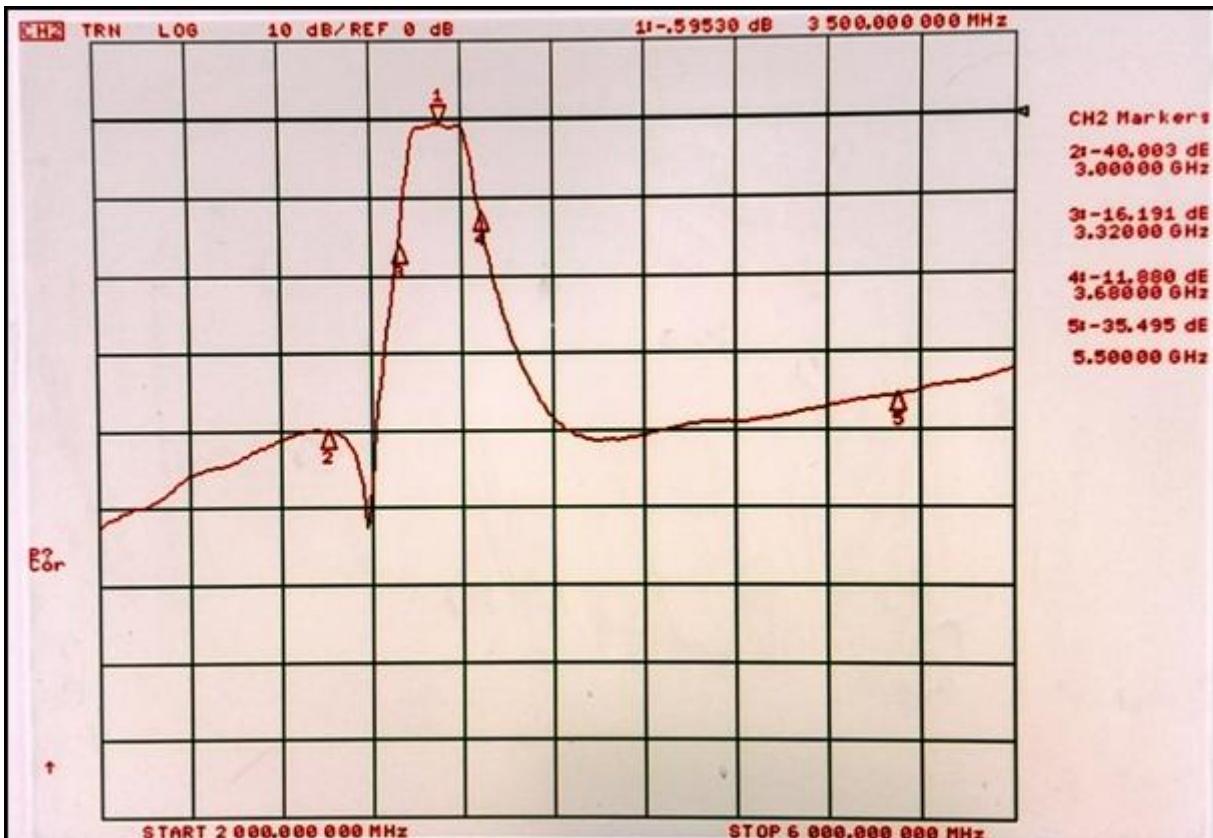
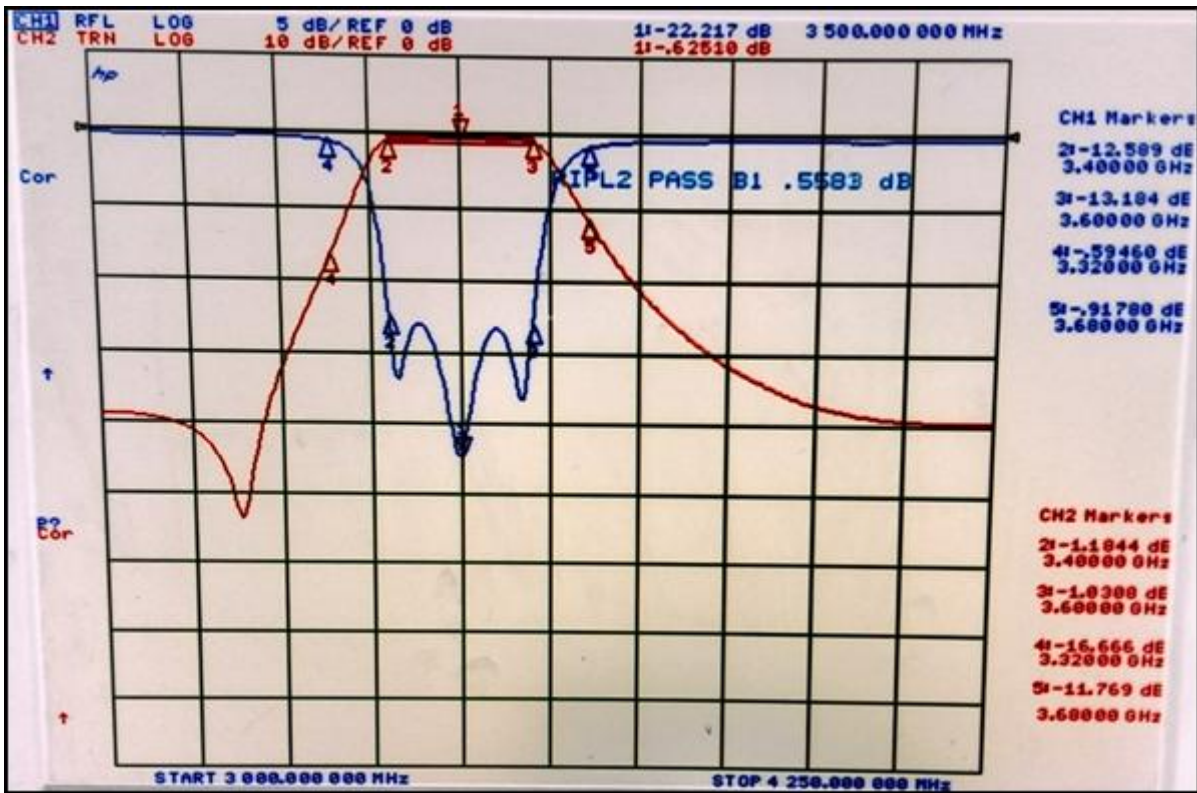
RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

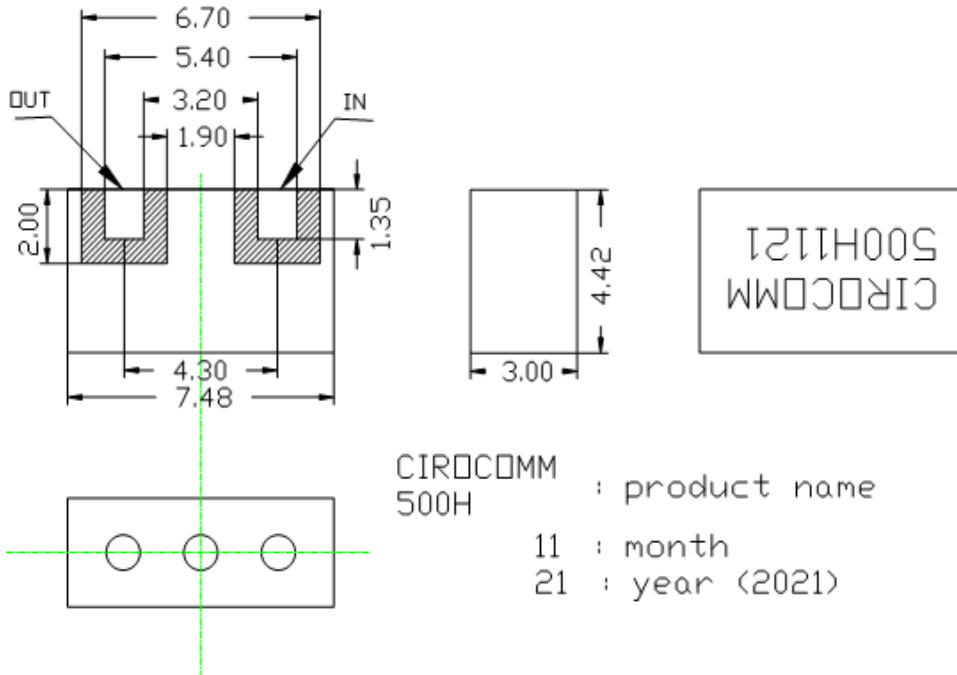
B. Electrical Characteristics:

ITEM		SPECIFICATION		
		Min	Typ	Max
INSERTION LOSS	3400~3600 MHz		1.5dB	2.0 dB
RIPPLE	3400~3600 MHz		0.8 dB	1.0 dB
RETURN LOSS	3400~3600 MHz	10 dB		
ATTENUATION	at 3320 MHz	10 dB		
	at 3680 MHz	10 dB		
ATTENUATION specifies the absolute value of attenuation.				

C. Frequency Characteristics:



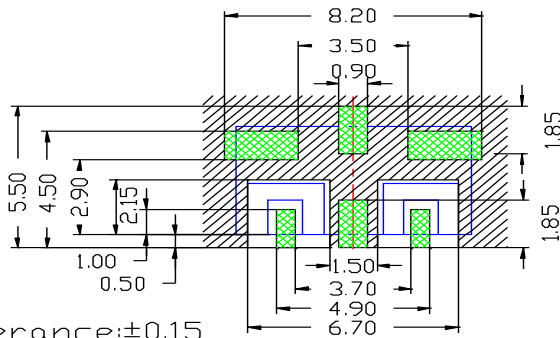
D. Dimension:



CIROCOMM : product name
 500H
 11 : month
 21 : year (2021)

Unit:mm
 Tolerance:±0.2

E. PCB Footprint:



Tolerance:±0.15

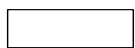


Conductive Material:
 Ground,connected to
 lower ground diameter of
 0.3mm and max.distance
 of 1.0mm



I/O Pads and LAND
 I/O must be connected to lineswith

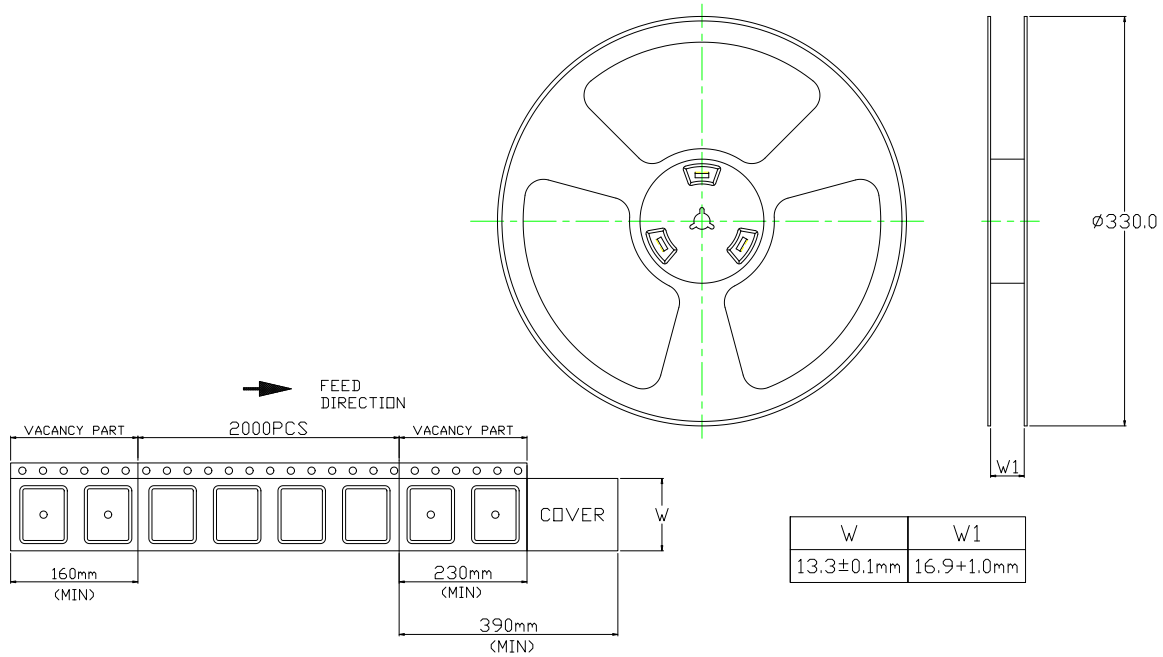
50Ω impedance.
 in the applicationa
 termination of 50Ω
 must be realized.



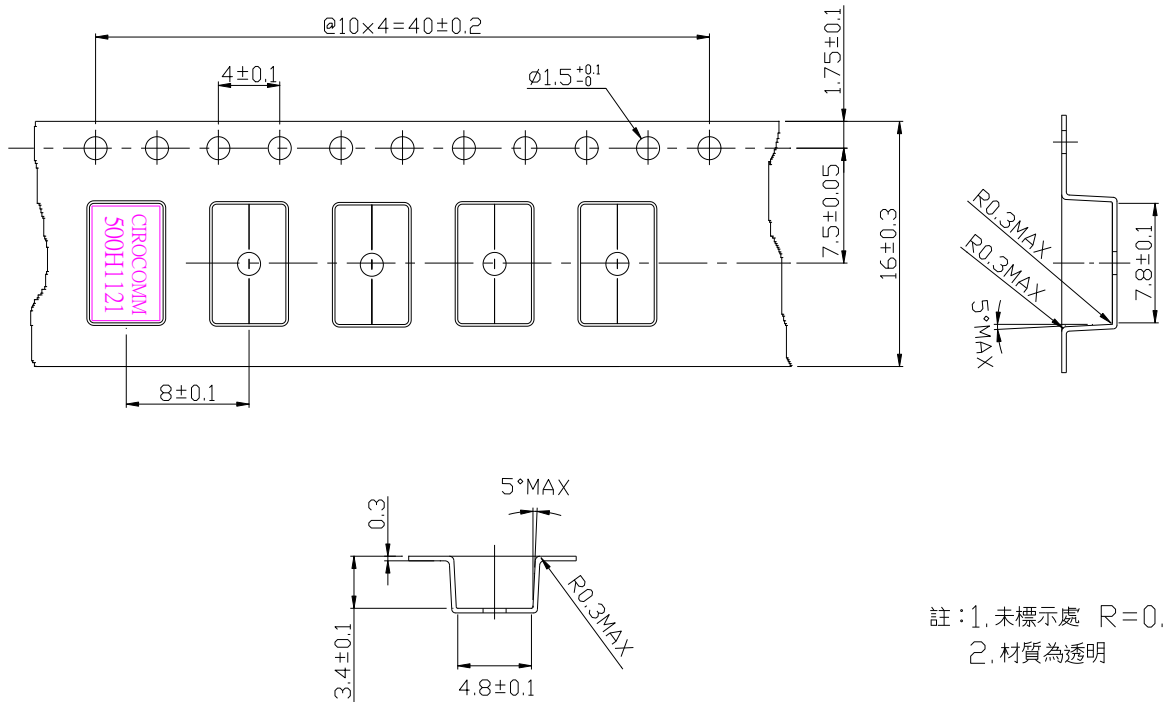
Solder Resist Without
 Pattern

F.Packing:

1.Reel Dimension:



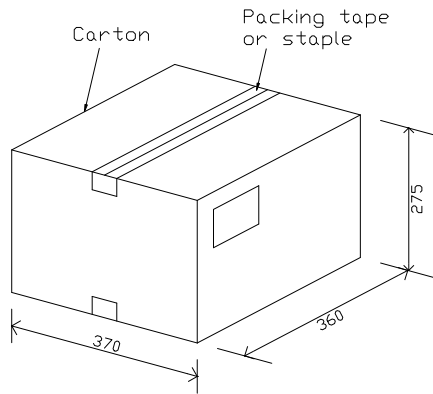
2.Tape Dimension:



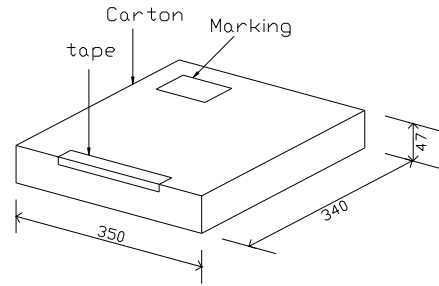
註: 1. 未標示處 R=0.3
2. 材質為透明

3.Package style:

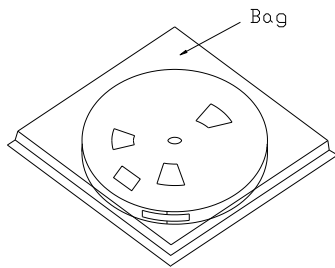
- 1. Outer Carton
Quanyity:10000PCS



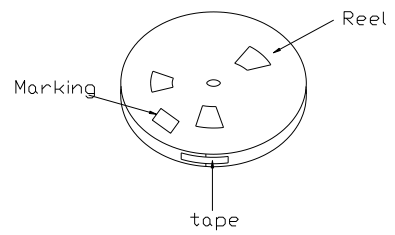
- 2. Inner Carton
Quanyity:2000PCS



- 3. Bag
Quanyity:2000PCS



- 4. Taping
Quanyity:2000PCS



Unit:mm

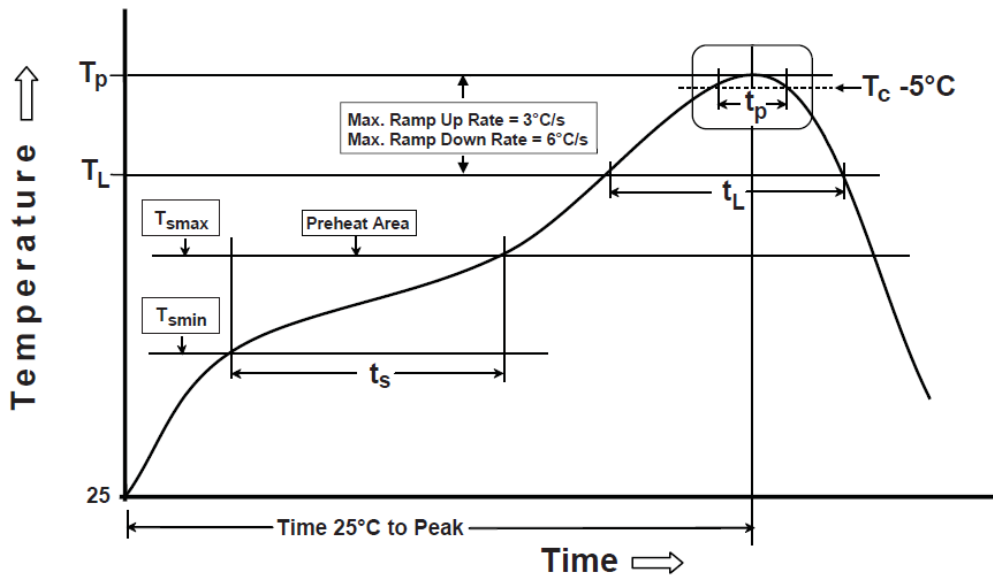
G. Recommended Reflow Profile:

Products can be assembled following Pb-free assembly. According to the Standard **IPC/JEDEC J-STD-020C**, the temperature profile suggested is as follow:

Phase	Profile features	Pb-Free Assembly (SnAgCu)
PREHEAT	-Temperature Min(Tsmin) -Temperature Max(Tsmax) -Time(ts) form (Tsmin to Tsmax)	150°C 200°C 60-120 seconds
RAMP-UP	Avg. Ramp-up Rate (Tsmax to TP)	3°C/second(max)
REFLOW	-Temperature(TL) -Total Time above TL (t L)	217°C 30-100 seconds
PEAK	-Temperature(TP) -Time(tp)	260°C 3 second
RAMP-DOWN	Rate	6°C / second max.
Time from 25°C to Peak Temperature		8 minutes max.
Composition of solder paste		96.5Sn/3Ag/0.5Cu
Solder Paste Model		SHENMAO PF606-P26

Note : All the temperature measure point is on top surface of the component, if temperature over recommend, it will make component surface peeling or damage.

The graphic shows temperature profile for component assembly process in reflow ovens



Soldering With Iron:

Soldering condition : Soldering iron temperature 270 ± 10 °C .

Apply preheating at 120°C for 2-3 minutes. Finish soldering for each terminal within 3 seconds, if soldering iron over temperature 270 ± 10 °C or 3 seconds, it will make component surface peeling or damage.

Soldering iron can not leakage of electricity.