



# TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,  
Taoyuan, 324, Taiwan, R.O.C.

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## Product Specifications Approval Sheet

Product Description: Dielectric Filter 2595MHz BW 160MHz Size 15.9x6.3 mm  
TST Parts No.: TR0118AA0090

Customer Parts No.: \_\_\_\_\_

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

Checked by: \_\_\_\_\_ Nina Chen *Nina Chen*

Approved by: \_\_\_\_\_ Kazuma Lee *Kazuma Lee*

Date: \_\_\_\_\_ 2023/04/17

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 2595MHz BW 160MHz Size 15.9x6.3mm

MODEL NO.: TR0118AA0090

REV. NO.:1.0

### A. Maximum Rating:

1. Input Power:10W
2. Operating Temperature: -40°C to +85°C
3. Storage Temperature: 0°C to +40°C
4. Moisture Sensitivity Level: 2a(MSL 2a)

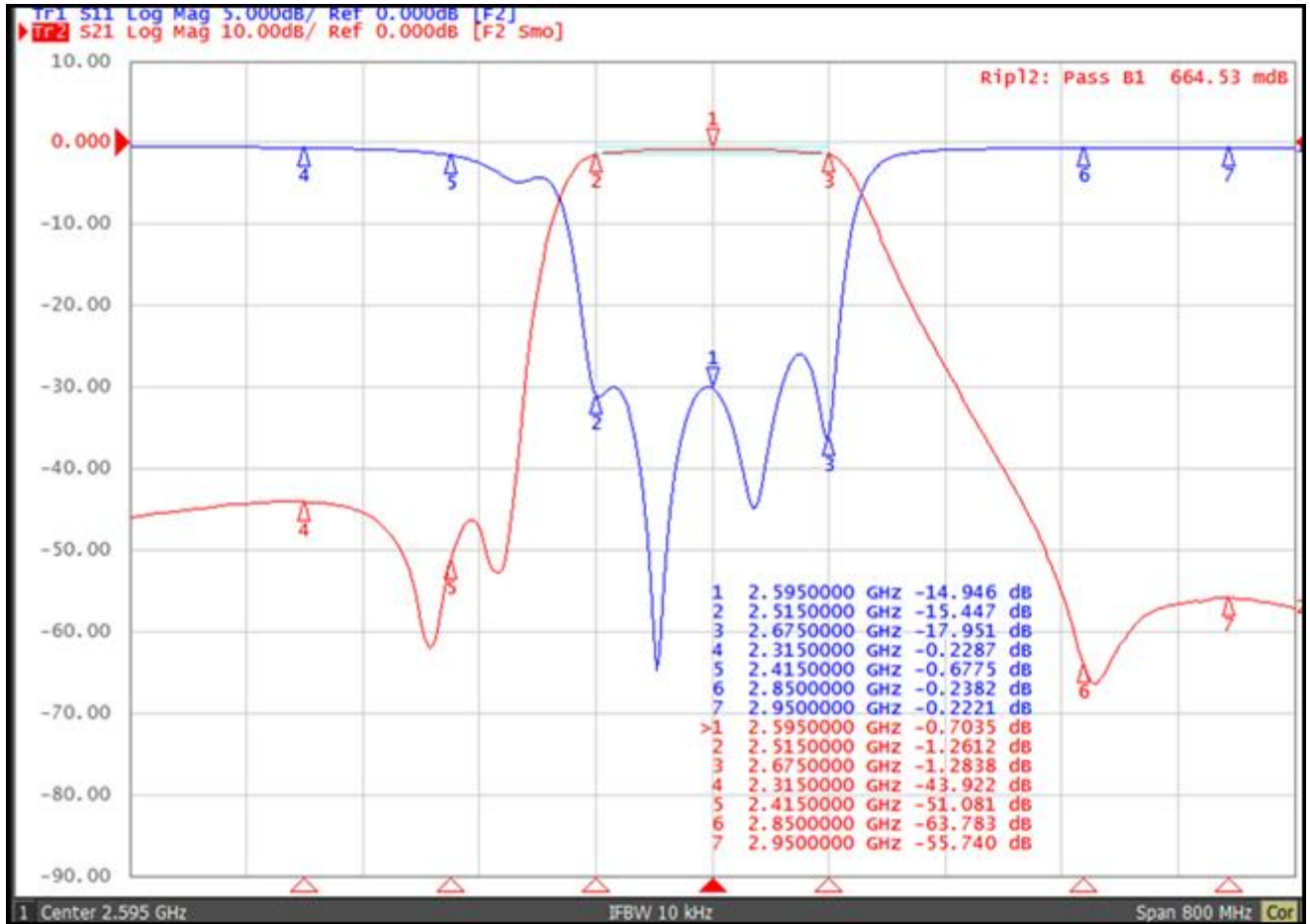
RoHS Compliant  
Lead free  
Lead-free soldering

**Electrostatic Sensitive Device (ESD)**

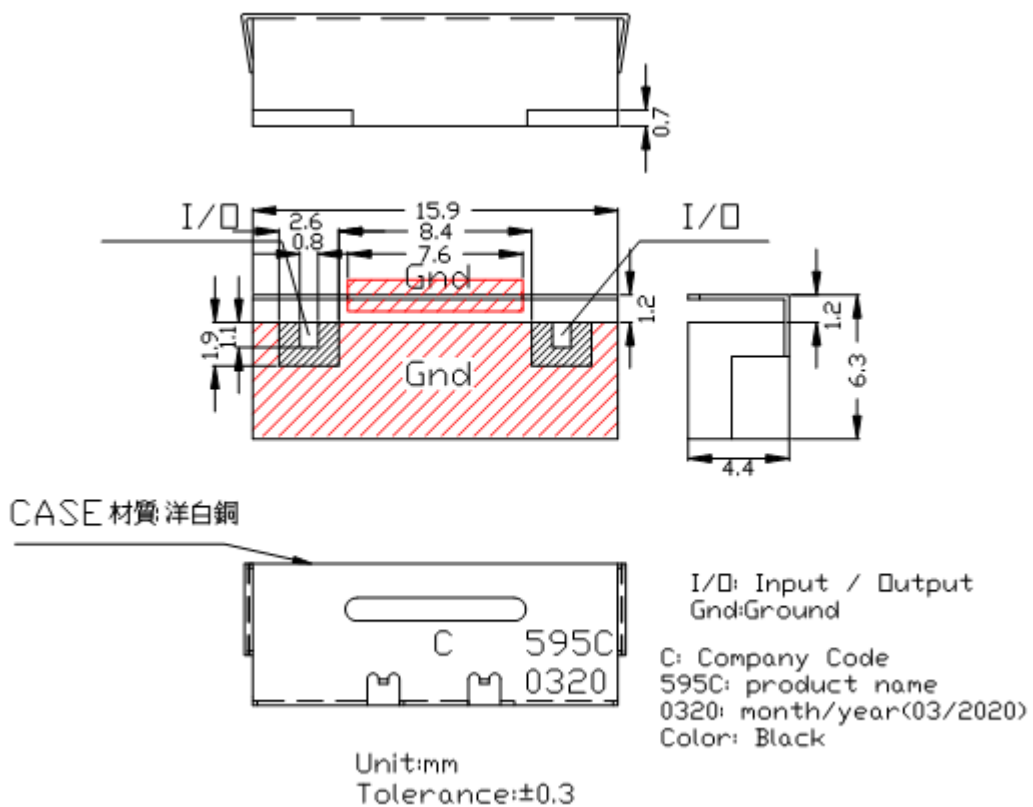
### B. Electrical Characteristics:

ITEM		SPECIFICATION	
		Min	Max
INSERTION LOSS	2515~2675 MHz		1.5 dB
RIPPLE	2515~2675 MHz		1.0 dB
RETURN LOSS	2515~2675 MHz	10 dB	
ATTENUATION	at 2315~2415 MHz	40 dB	
	at 2850~2950 MHz	50 dB	
ATTENUATION specifies the absolute value of attenuation.			

### C. Frequency Characteristics:

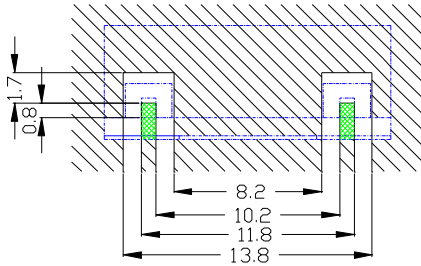


### D. Dimension:

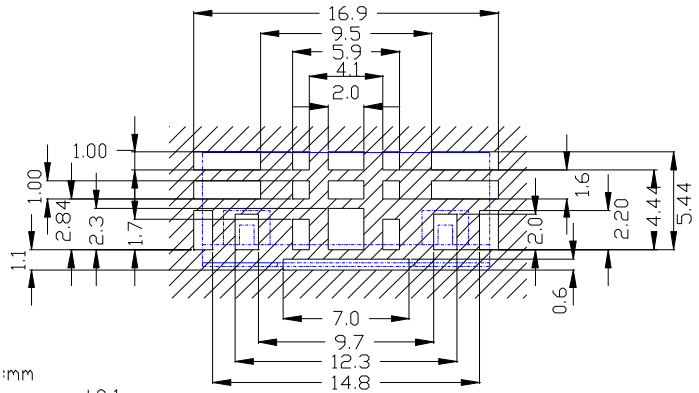


## E. PCB Footprint:

3-2-1  
Conductive Material Patten



3-2-2  
Solder resist Patten



unit:mm  
Tolerance:±0.1



Conductive Material:  
Ground,connected to  
lower ground diameter of  
0.3mm and max.distance  
of 3.0mm.

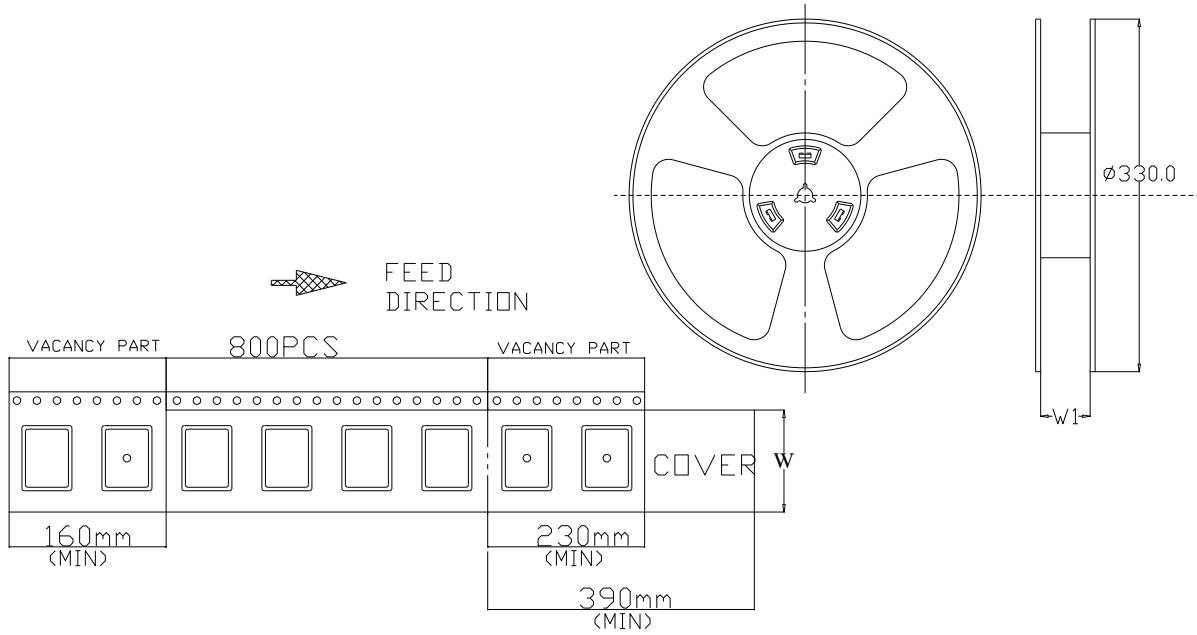


covered with solder  
resist.

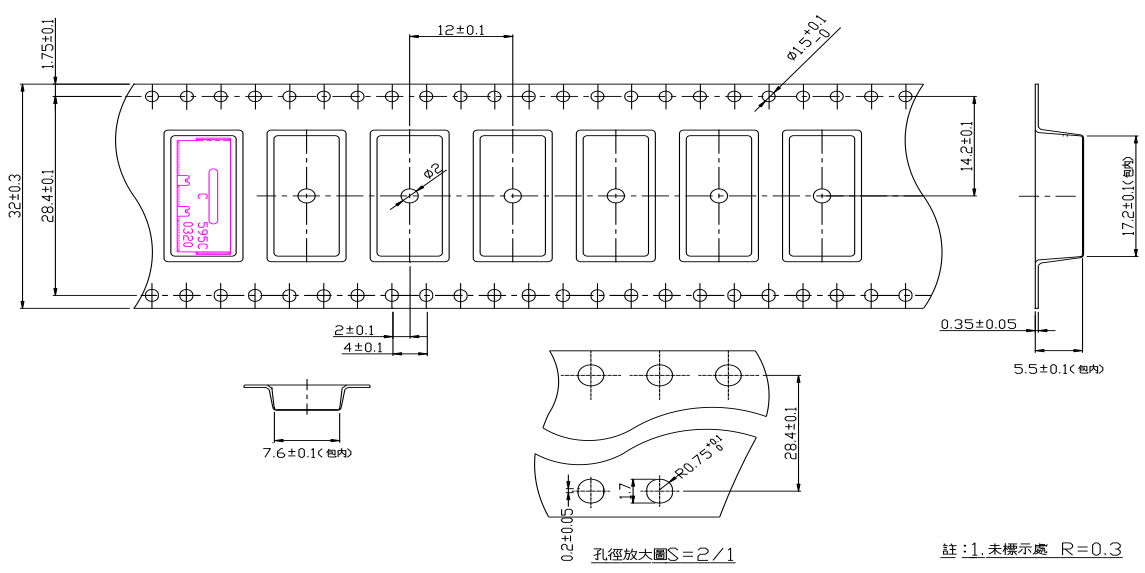


I/O Pads must be  
connected to lines with  
50Ω impedance.  
in the application a  
termination of 50Ω  
must be realized.

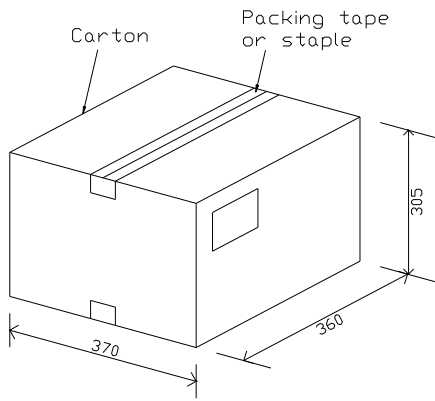
**F.Packing:**



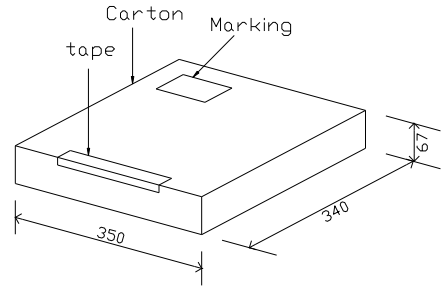
W	W1
25.5±0.1mm	33±1.0mm



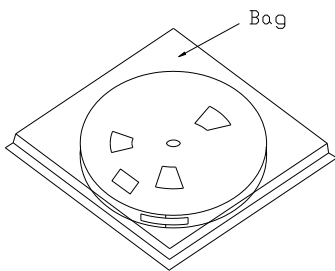
1. Outer Carton  
Quanyity:3200PCS



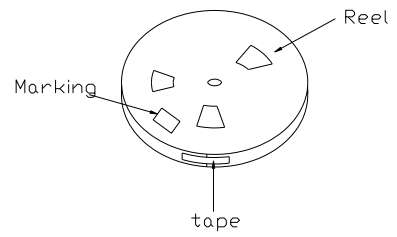
2. Inner Carton  
Quanyity:800PCS



3. Bag  
Quanyity:800PCS



4. Taping  
Quanyity:800PCS



Unit:mm

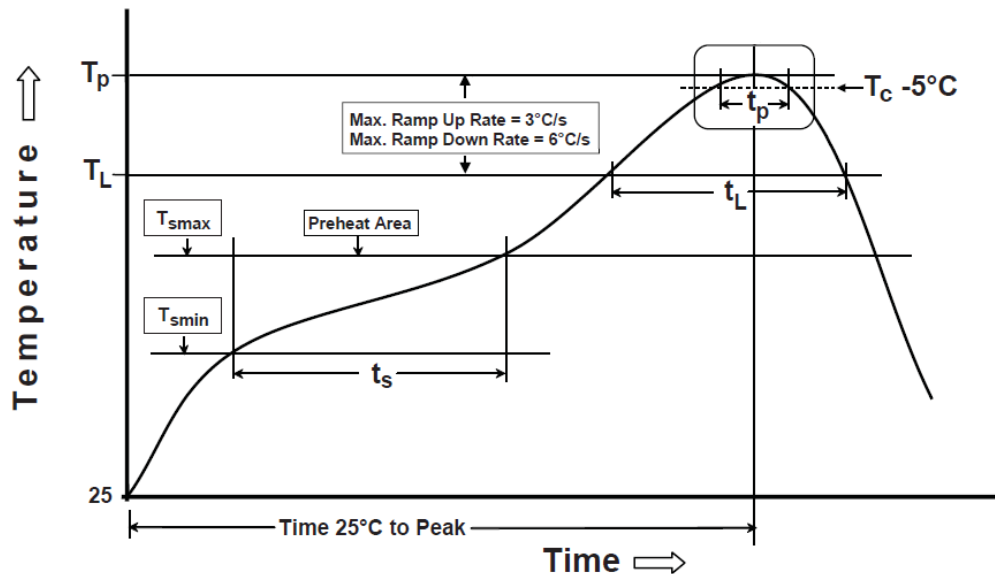
### G. Recommended Reflow Profile:

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( $T_{smin}$ ) -Temperature Max( $T_{smax}$ ) -Time( $t_s$ ) form ( $T_{smin}$ to $T_{smax}$ )	150°C 200°C 60-120 seconds
RAMP-UP	Avg. Ramp-up Rate ( $T_{smax}$ to $T_P$ )	3°C/second(max)
REFLOW	-Temperature( $T_L$ ) -Total Time above $T_L$ ( $t_L$ )	217°C 30-100 seconds
PEAK	-Temperature( $T_P$ ) -Time( $t_p$ )	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  $270 \pm 10$  °C.

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

Soldering iron can not leakage of electricity.