



# 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 Name: Dielectric Filter 3500MHz size15.9x6.2mm

TST Parts No.: TR0038AA0095

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

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

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

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

Date: \_\_\_\_\_ 2022/11/01

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 size 15.9x6.2mm

MODEL NO.: TR0038AA0095

REV. NO.:3

### A. MAXIMUM RATING:

1. Input Power Level: 1W max.
2. DC Voltage : 0 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature:-40°C to +85°C
5. Input/output impedance: 50 Ω
6. Moisture Sensitive Level: Level 2a (MSL2a)

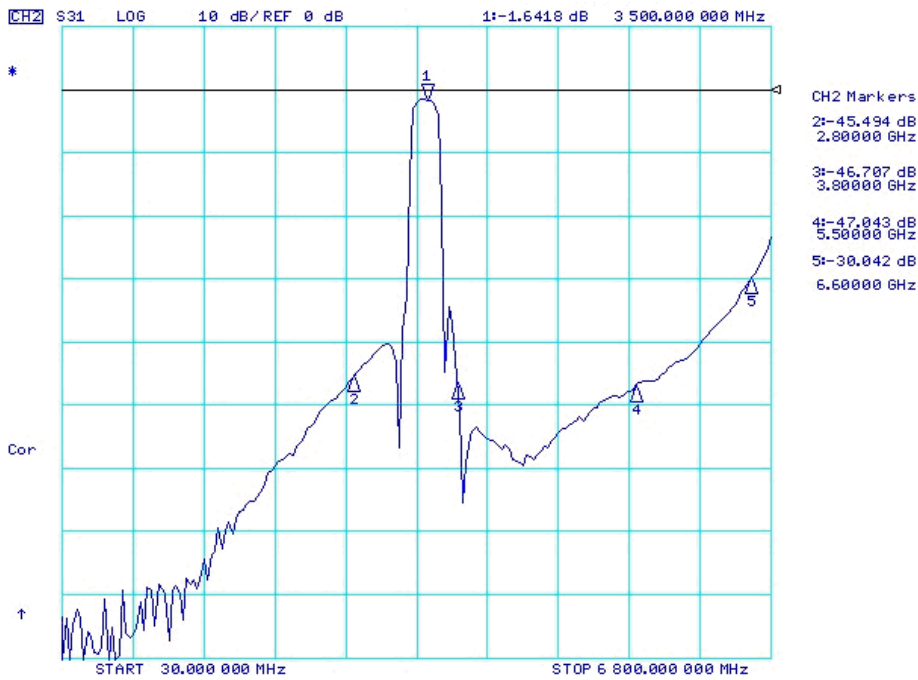
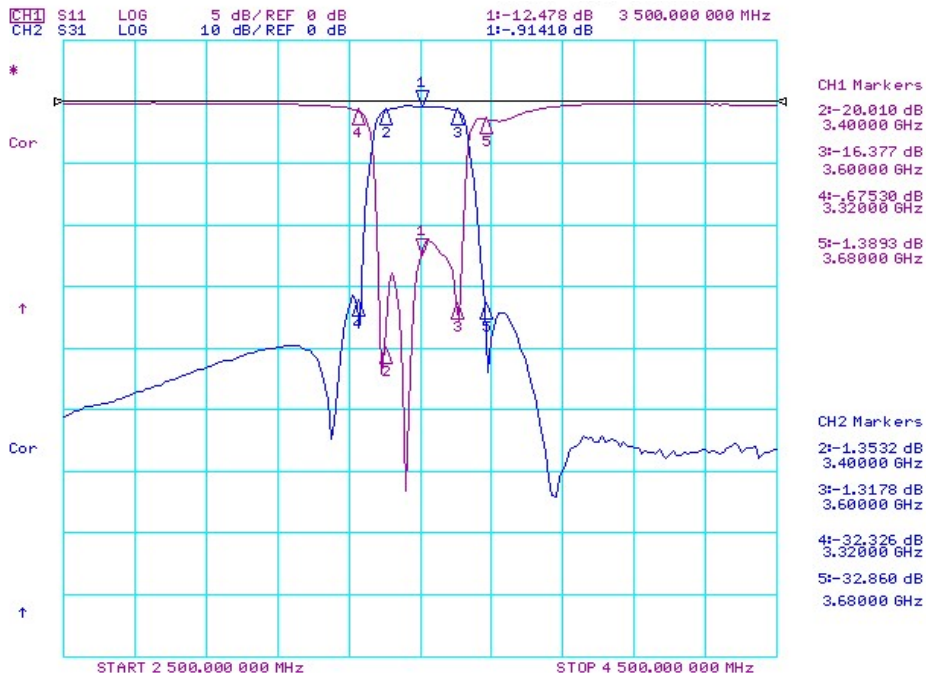
RoHS Compliant  
Lead free  
Lead-free soldering

**Electrostatic Sensitive Device (ESD)**

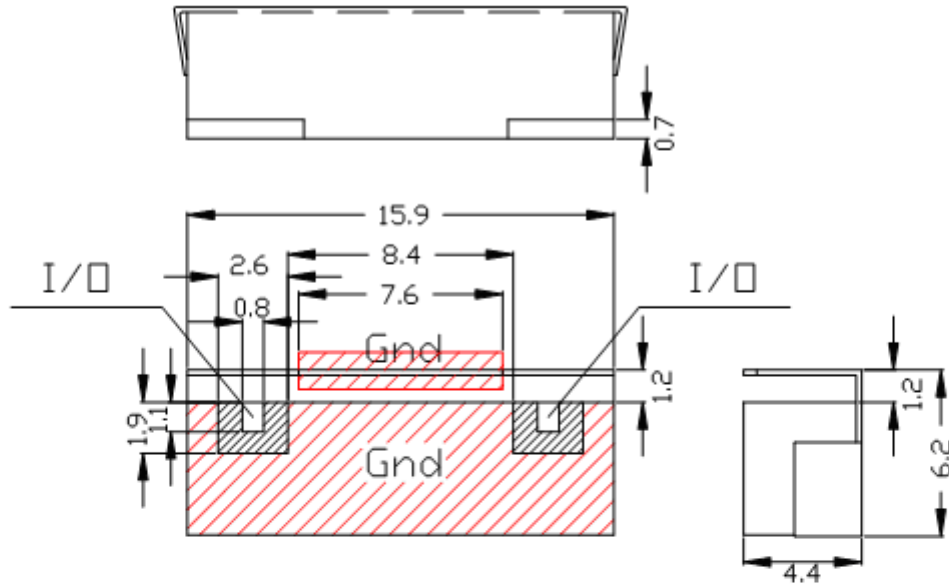
### B. ELECTRICAL CHARACTERISTICS:

NO.	ITEM	SPECIFICATION		
		Min	Typ	Max
1	CENTER FREQUENCY	3500MHz		
2	PASS BAND WIDTH	3400~3600MHz		
3	PASS BAND INSERTION LOSS		1.8dB	2.0dB
4	PASS BAND RIPPLE		0.7dB	1.0dB
5	PASS BAND RETURN LOSS	10 dB	13dB	
6	STOP-BAND ATTENUATION	3320MHz	25 dB	32dB
		3680MHz	25 dB	32dB
Item NO.4 specifies the absolute value of attenuation				

### C. FREQUENCY CHARACTERISTICS:



**D. DIMENSION:**



CASE 材質: 洋白銅

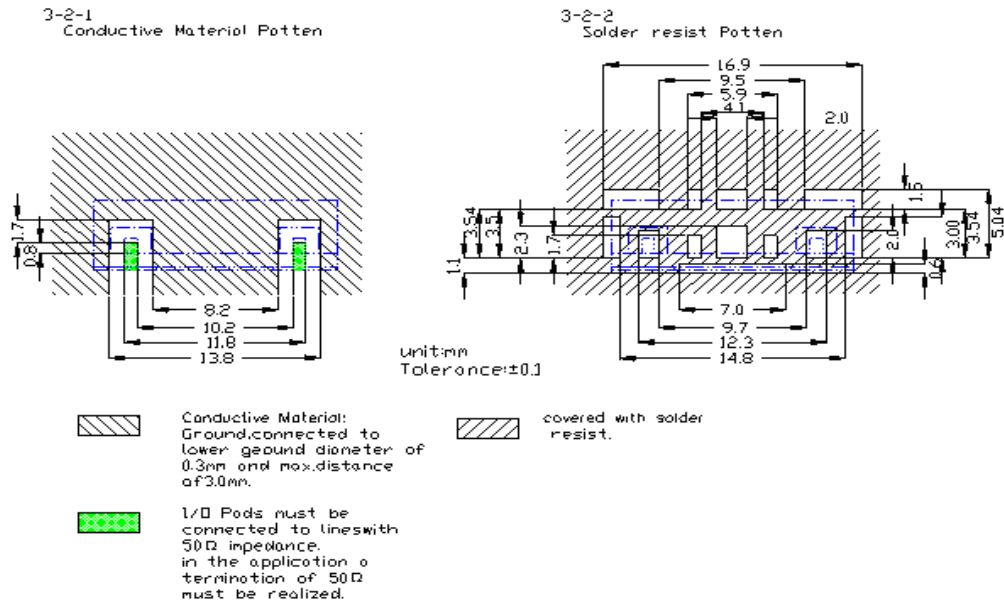


I/O: Input / Output  
Gnd: Ground

500F: product name  
1629: year/week (2016 29th week)  
Color: Black

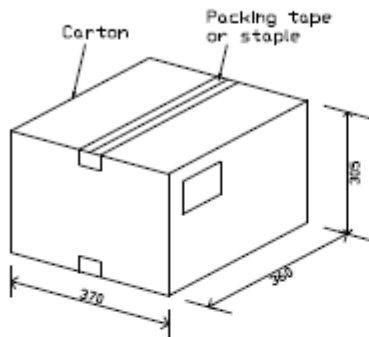
Unit:mm  
Tolerance:±0.3

## E. PCB FOOTPRINT:

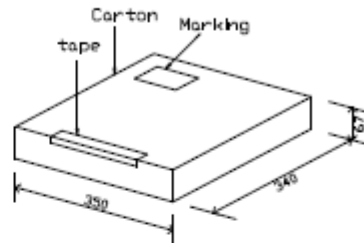


## F. PACKING:

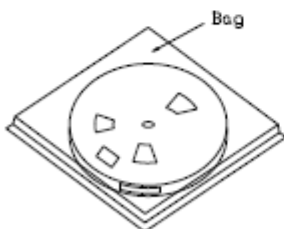
1. Outer Carton  
Quantity: 3200PCS



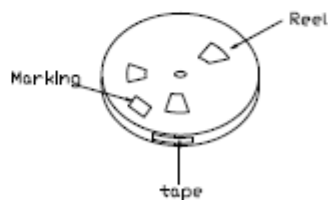
2. Inner Carton  
Quantity: 800PCS



3. Bag  
Quantity: 800PCS



4. Taping  
Quantity: 800PCS



Unit:mm

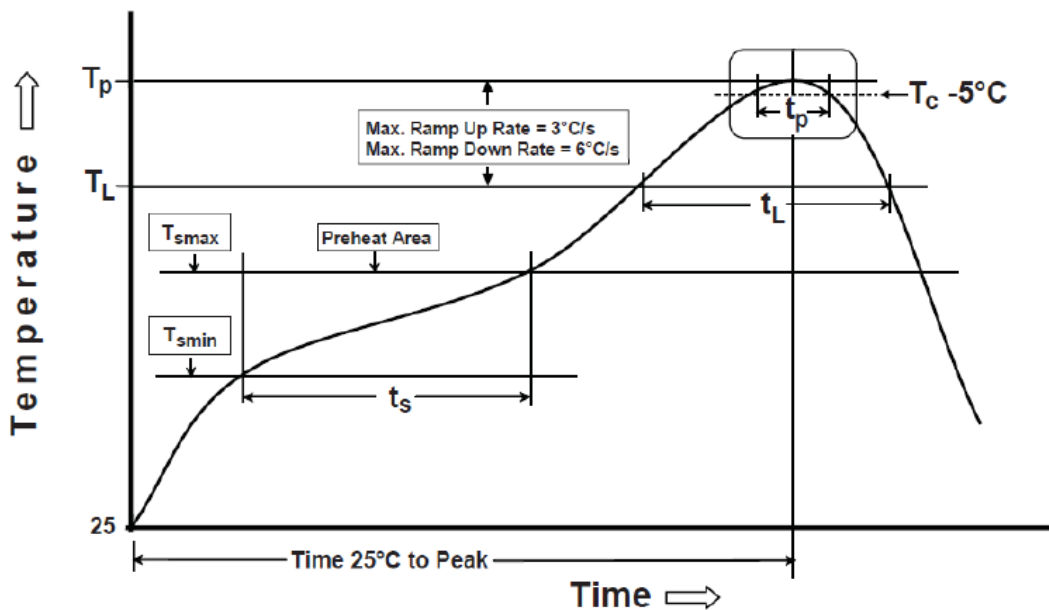
**G. RECOMMENDED REFLOW PROFILE:**

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(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.