

### TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District, Taoyuan, 324, Taiwan, R.O.C. TEL: 886-3-4690038 FAX: 886-3-4697532 E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

# **Product Specifications Approval Sheet**

Product Description: Dielectric Filter 4700MHz Size15.9x4.5mm BW 600MHz TST Parts No.: TR0064AA0092

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

Customer signature required		
Company:		
Company		
Division:		
Approved by		
Approved by :		
Date:		
		Alter Class
Checked by:	Nina Chen	Nina chen
		Kouma Lee
Approved by:	Kazuma Lee	Alina Chen Kasuma Jee
Date:	2022/04/20	

- 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 4700MHz Size15.9x4.5mm BW 600MHz

MODEL NO.: TR0064AA0092

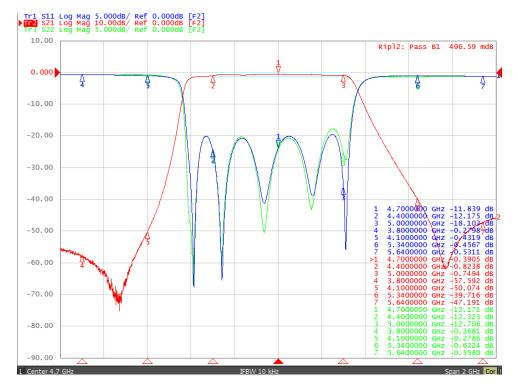
#### A. Maximum Rating:

- 1. Input Power Level: 10W CW
- 2. Operating Temperature: -40°C to +105°C
- 3. Storage Temperature: -40°C to +85°C
- 4. Moisture Sensitivity Level: 2a

#### B. Electrical Characteristics:

Item		Unit	Specification
Center Frequency	4400~5000 MHz	MHz	4700
Insertion Loss		dB	2.0(max)
Amplitude Ripple		dB	1.5(max)
Return Loss		dB	8(Min)
Attenuation	3800~4100 MHz	dB	40(min)
	5340~5640 MHz	dB	30(min)

#### C. Freqency Characteristics:



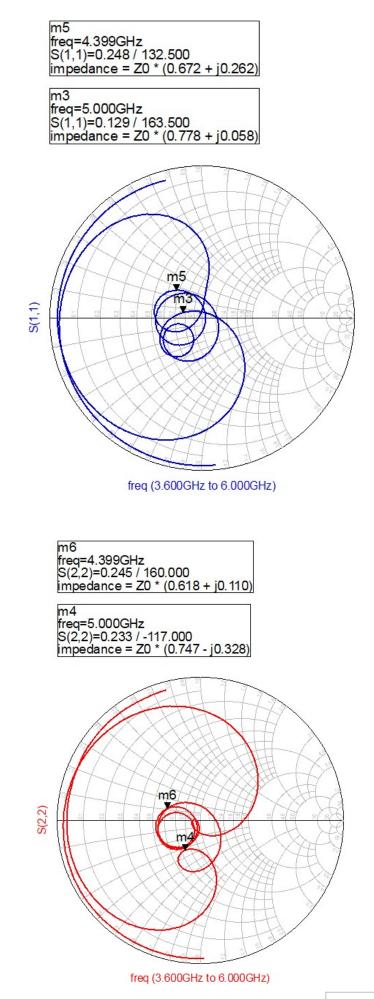
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**TST DCC** Release document

REV. NO.:1.0

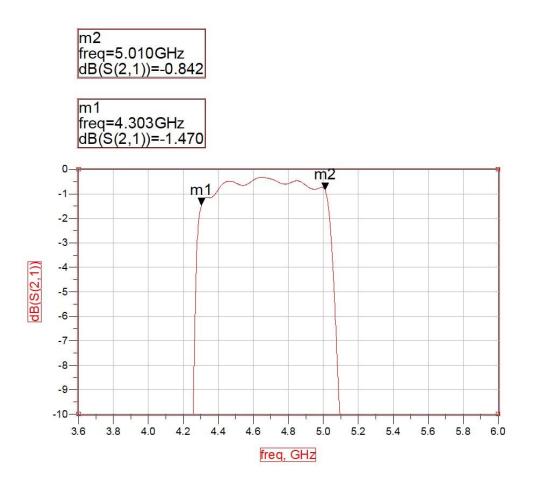
RoHS Compliant Lead free Lead-free soldering

2

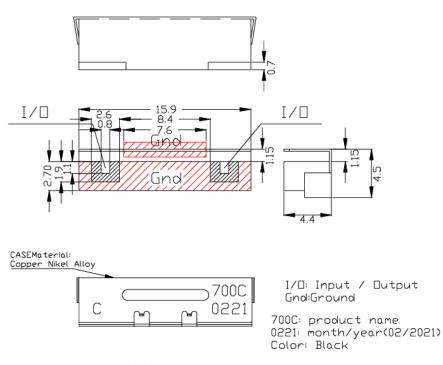


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**TST DCC** Release document



**D. Dimension:** 

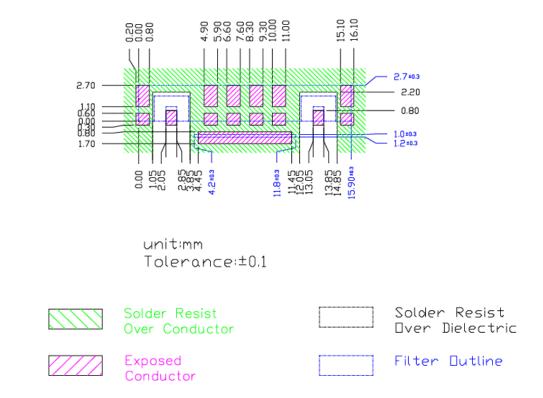


Unit:mm Tolerance:±0.3

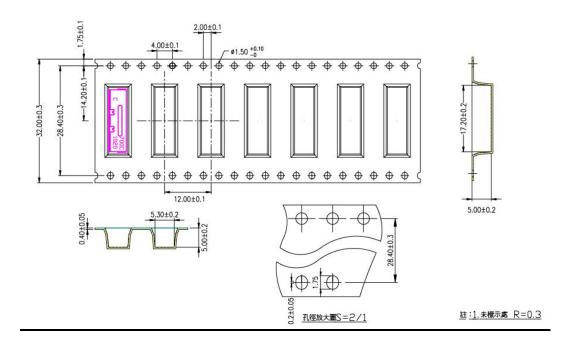
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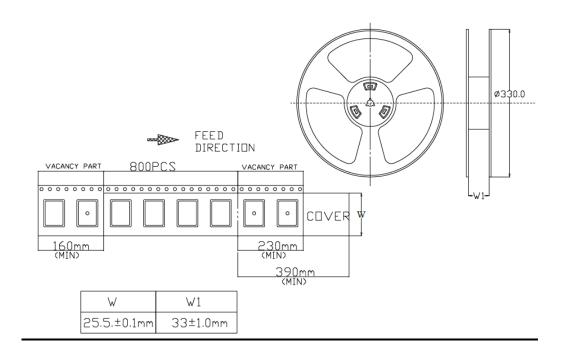
TST DCC Release document

#### E. PCB Footprint:

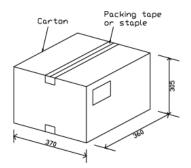


#### F.Packing:





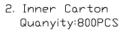
1. Outer Carton Quanyity:3200PCS

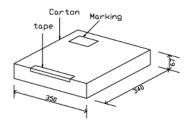


Bag

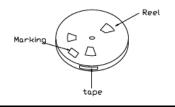
 $\diamond$ 

3. Bag Quanyity:800PCS





 Taping Quanyity:800PCS



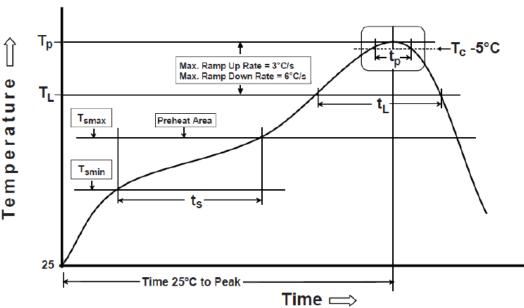
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#### G. Recommended Reflow Profile:

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℃ 30-100 seconds
PEAK	-Temperature(TP) -Time(tp)	260℃ 3 second
RAMP-DOWN	Rate	$6^{\circ}$ 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  $120^{\circ}$ C for 2-3 minutes. Finish soldering for each terminal within 3 seconds, if soldering iron over temperature  $270\pm10^{\circ}$ C or 3 seconds, it will make component surface peeling or damage. Soldering iron can not leakage of electricity.

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