

TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Name: Diel	lectric filter 663MH	z size11.4x10.75mm
TST Parts No.: TRO	0030A	
Customer Parts No.	.:	
Customer signature	required	
Company:		
Division:		
Approved by :		
Checked by:		Hana Pu Lin
Approved by:	Andy Yu	Andy In
Date:	2020/05/30	

- 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 663MHz size 11.4x10.75mm

MODEL NO.: TR0030A REV. NO.:1

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

Electrostatic Sensitive Device (ESD)

5. Input/output impedance: 50 Ω

6. Moisture Sensitive Level: Level 2a (MSL2a)

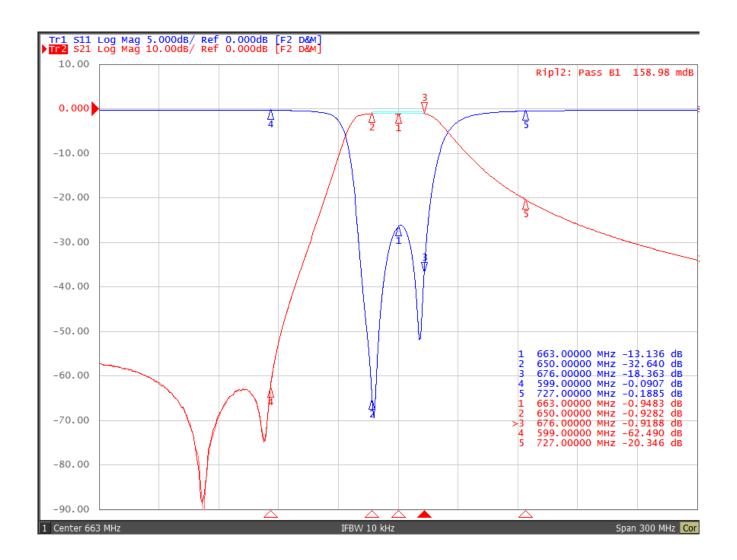
B. ELECTRICAL CHARACTERISTICS:

No	ITEM		SPECIFICATION	
NO.			Min	Max
1	CENTER FREQUENCY		663MHz	
2	PASS BAND WIDTH		650 ~ 676MHz	
3	PASS BAND INSERTION LOSS			1.5 dB
4	PASS BAND RIPPLE			0.6 dB
5	PASS BAND RETURN LOSS		10 dB	
6	STOP-BAND ATTENUATION	599MHz	40 dB	
		727MHz	15 Db	

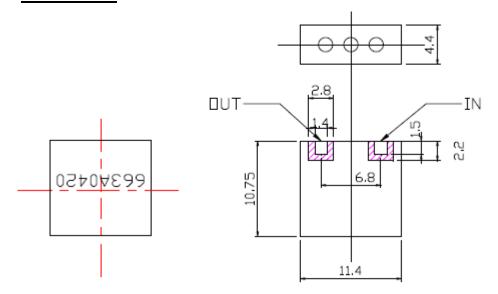
Item NO.6 specifies the absolute value of attenuation.

*Data is measured on Cirocomm EVB board

C. FREQUENCY CHARACTERISTICS:



D. **DIMENSION**:



unit: mm Tolerance:±0.3

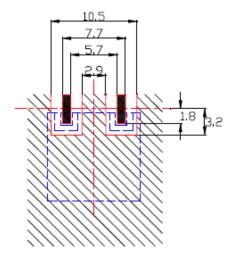
unit: mm 663A : product name(J663A)

04 : month

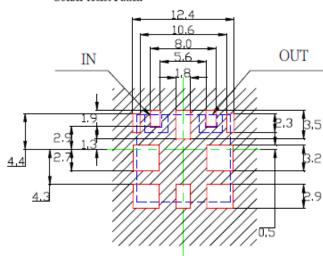
20 : year (2020)

E. PCB FOOTPRINT:

Conductive Material Patten



Solder resist Patten



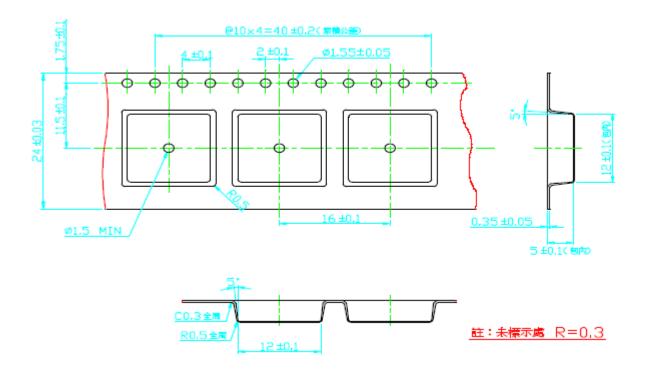
Conductive Material:
Ground, connected to
lower ground diameter

lower ground diameter of 0.6mm and max.distance of 3.0 mm.

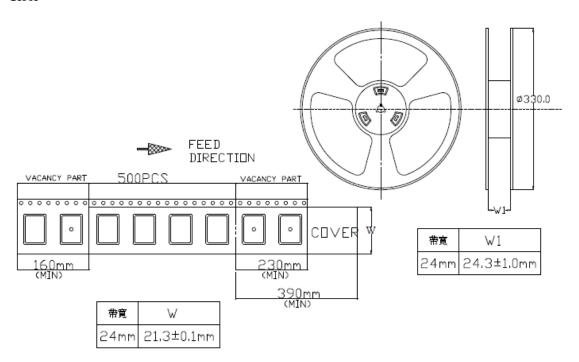
I/O Pads must be connected to lineswith 50Ω impedance. in the application a termination of 50Ω must be realized.

unit: mm Tolerance: ±0.1 covered with solder resist.

F. PACKING:



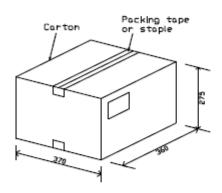
Reel



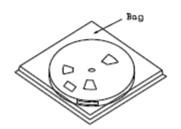
Package style

Moisture Sensitivity Level: Level 2a (MSL2a)

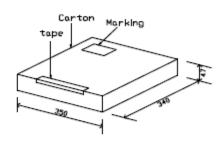
 Duter Carton QuanyIty:2500PCS



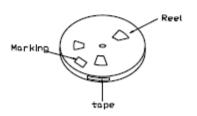
Bag Quanylty:500PCS



Inner Carton QuanyIty:500PCS



 Taping Quanylty:500PCS



Unlt:mm

G. RECOMMENDED REFLOW PROFILE:

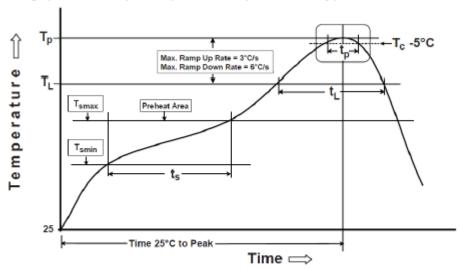
Recommended Reflow Soldering Profile

Cirocomm 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°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 ℃.

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.