

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: <u>tstsales@mail.taisaw.com</u> Web: <u>www.taisaw.com</u>

Product Specifications Approval Sheet

Product Name: Dielectric filter 3450MHz size15.9x4.4mm

TST Parts No.: TR0039AA0095

Customer Parts No.:_____

Customer signature	e required	
Company:		
Division:		
Approved by :		
Date:		
Checked by:	Hong pu Lin	Hong Pu Lin
Approved by:	Andy Yu	Andy An
Date:	2020/10/25	

- 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 3450MHz size 15.9x4.4mm

MODEL NO.: TR0039AA0095

A. MAXIMUM RATING:

- 1. Input Power Level: 10W max.
- 2. DC Voltage : 0 V
- 3. Operating Temperature: -40 ℃ to +85 ℃
- 4. Storage Temperature:-40 ℃ to +85 ℃
- 5. Input/output impedance: 50 Ω
- 6. Moisture Sensitive Level: Level 2a (MSL2a)

B. ELECTRICAL CHARACTERISTICS:

RoHS Compliant Lead-free soldering

REV. NO.:1

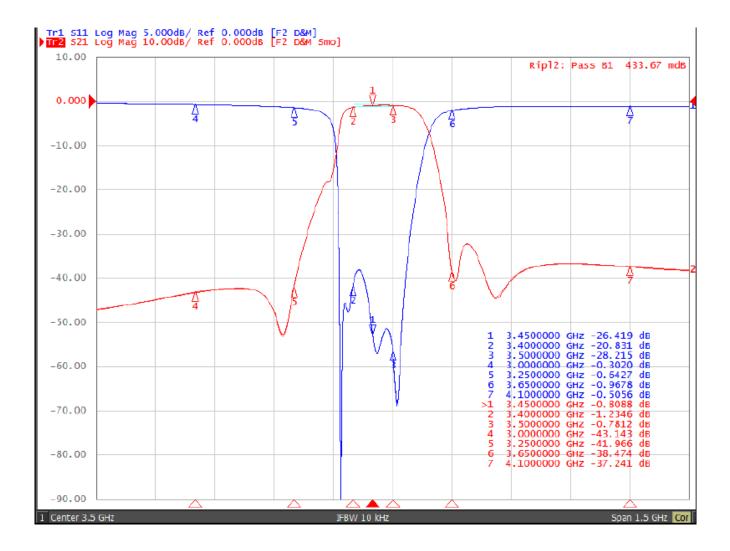
Electrostatic Sensitive Device (ESD)

	ITEM		SPECIFICATION		
NO.			Min	Тур	Max
1	CENTER FREQUENCY		3450MHz		
2	PASS BAND WIDTH		3400 ~ 3500MHz		
3	PASS BAND INSERTION LOSS			1.6dB	2.0dB
4	PASS BAND RIPPLE			0.6dB	1.0dB
5	PASS BAND RETURN LOSS		10 dB		
6	STOP-BAND ATTENUATION	3000~3250MHz	35 dB		
		3650~4100MHz	30 dB		
Item NO.4 specifies the absolute value of attenuation					

%Data is measured on Cirocomm EVB board

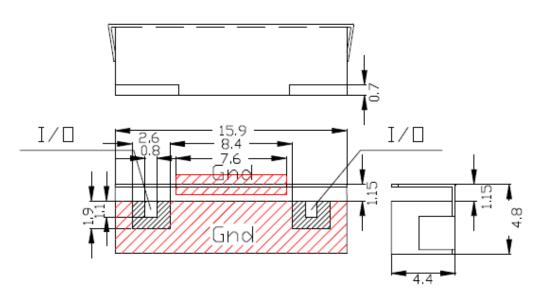
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C. FREQUENCY CHARACTERISTICS:

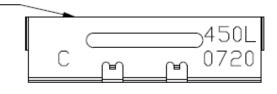


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D. DIMENSION:



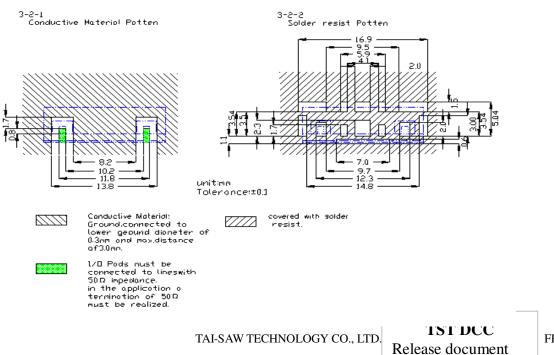
`ASE 材質 洋白銅



Unit:mm Tolerance:±0.3 I/D: Input / Dutput Gnd:Ground

C: Company Code 450L: product name(J3450L) 0720: month/year(07/2020) Color: Black

E.PCB FOOTPRINT:



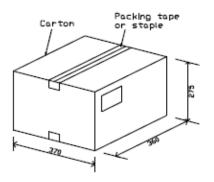
FR-71S03-02

F. PACKING:

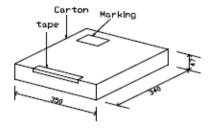
Package style

Moisture Sensitivity Level: Level 2a (MSL2a)

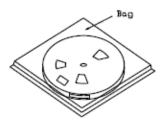
 Duter Carton Quanylty:2500PCS



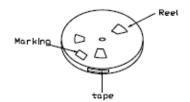
2. Inner Carton Quanylty:500PCS



3. Bag Quanylty:500PCS



 Taping Quanylty:500PCS



Unlt:mm

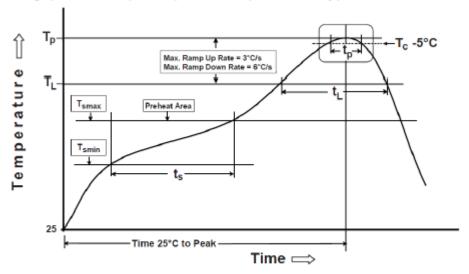
G. RECOMMENDED REFLOW PROFILE:

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°C 30-100 seconds		
PEAK	-Temperature(TP) -Time(tp)	260℃ 3 second		
RAMP-DOWN	Rate	6℃ / 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 $270\pm10^{\circ}$ C or 3 seconds, it will make component surface peeling or damage. Soldering iron can not leakage of electricity.