



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet

Product Name: Dielectric Filter 4700MHz Size15.9x4.5mm BW 200MHz

TST Parts No.: TR0037AA0095

Customer Parts No.: _____

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

Checked by: _____ Nina Chen *Nina Chen*

Approved by: _____ Kazuma Lee *Kazuma Lee*

Date: _____ 2022/11/23

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 Size 15.9x4.5mm BW 200 MHz

MODEL NO.: TR0037AA0095

REV. NO.:2

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)

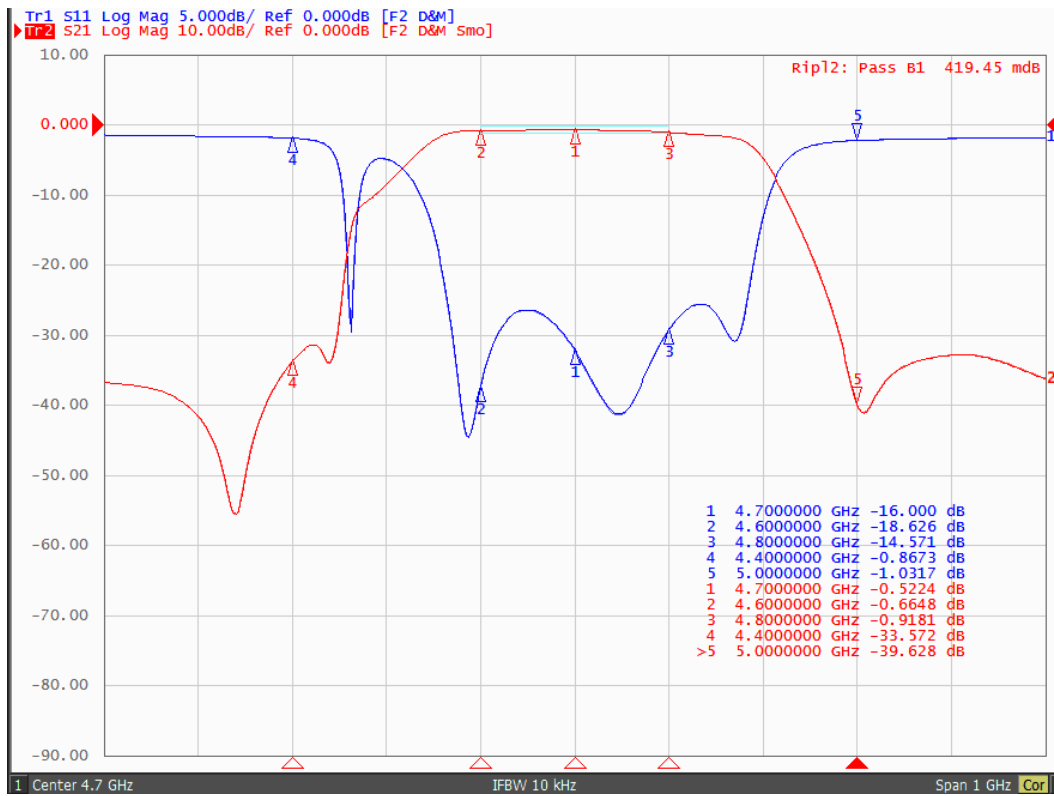
RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

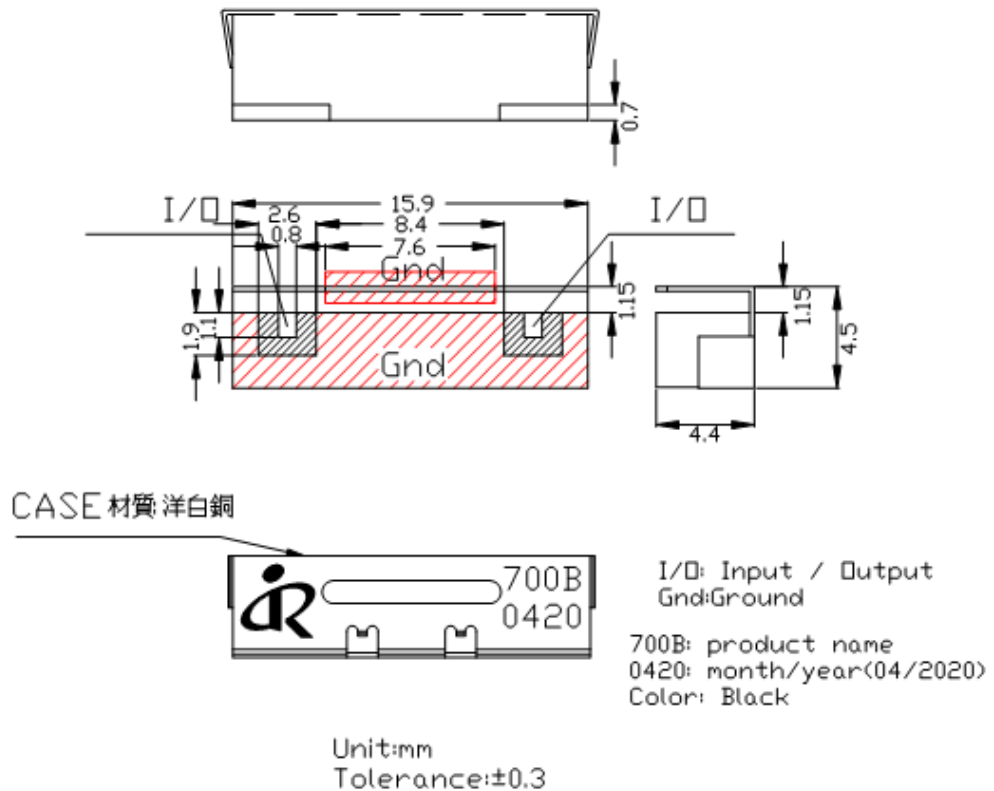
B. ELECTRICAL CHARACTERISTICS:

NO.	ITEM	SPECIFICATION	
		Min	Max
1	CENTER FREQUENCY	4700MHz	
2	PASS BAND WIDTH	4600 ~ 4800MHz	
3	PASS BAND INSERTION LOSS		1.5dB
4	PASS BAND RIPPLE		1.0 dB
5	PASS BAND RETURN LOSS	10 dB	
6	STOP-BAND ATTENUATION	4400MHz	30 dB
		5000MHz	30 dB
Item NO.4 specifies the absolute value of attenuation			

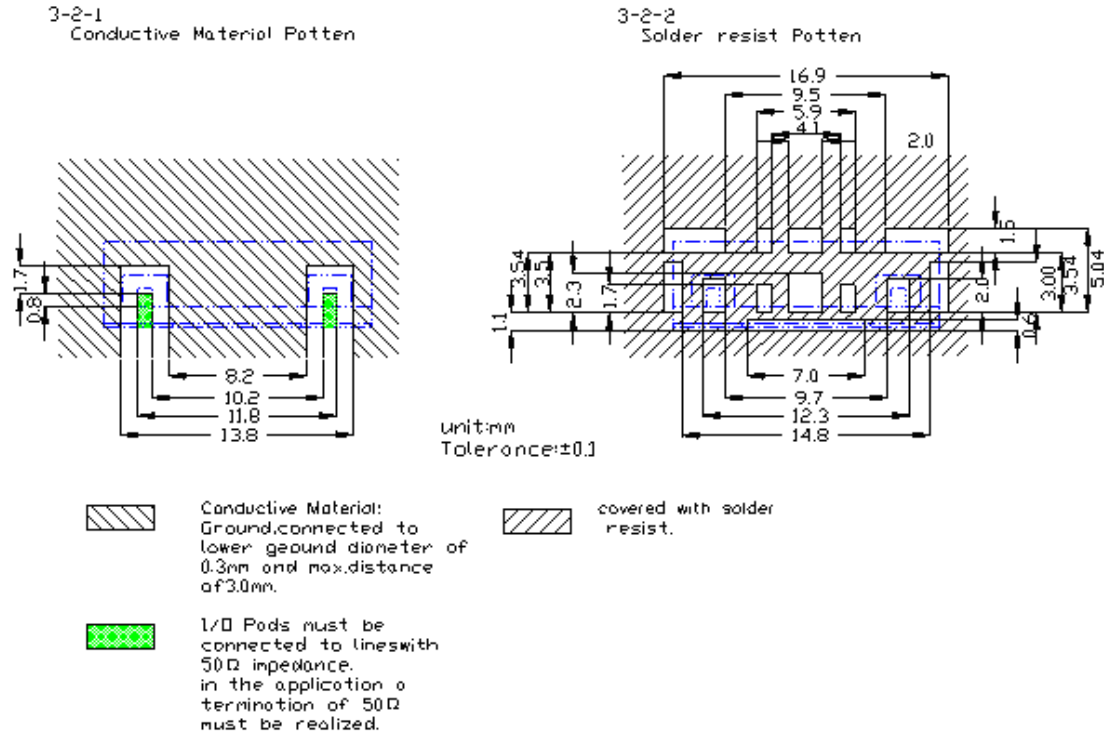
C. FREQUENCY CHARACTERISTICS:



D. DIMENSION:

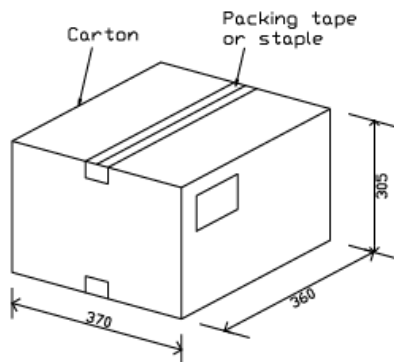


E. PCB FOOTPRINT:

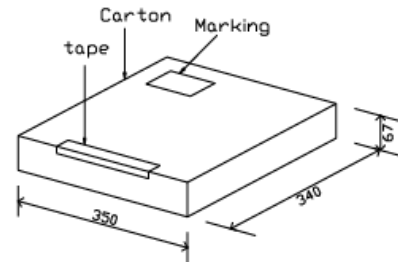


F. PACKING:

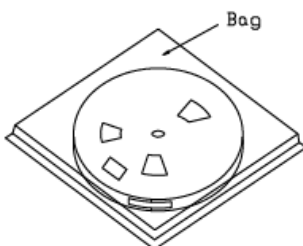
1. Outer Carton
Quantity: 3200PCS



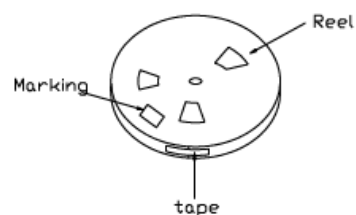
2. Inner Carton
Quantity: 800PCS



3. Bag
Quantity: 800PCS



4. Taping
Quantity: 800PCS



G. RECOMMENDED REFLOW PROFILE:

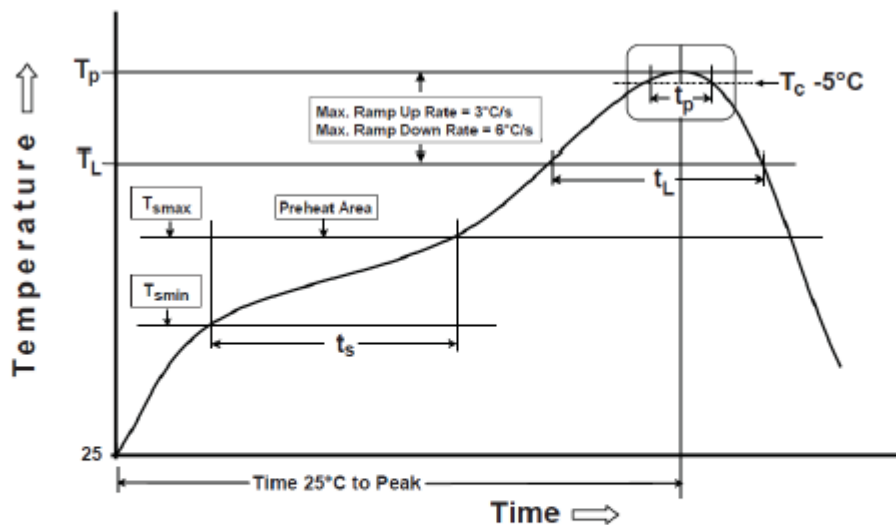
Recommended Reflow Soldering Profile

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(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 TP)	3°C/second(max)
REFLOW	-Temperature(TL) -Total Time above TL (t_L)	217°C 30-100 seconds
PEAK	-Temperature(TP) -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 $270 \pm 10^\circ\text{C}$.

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

Soldering iron can not leakage of electricity.