

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

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Product Specifications Approval Sheet

Product Description: LTCC Filter 2450/5425 MHz Size 1.6x0.8 mm			
TST Part No.: TL0041AA0094			
Customer Part No.:			
	Customer signature required		
	Company:		
	Division:		
	Approved by :		
	Date:		
Che	ecked by: Hong Pu Lin Hong Pu Lin		
Арр	proved by: Andy Yu Andy An		
Date	e:		

- 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 change



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LTCC Filter 2450/5425 MHz Size 1.6X0.8 mm

MODEL NO.:TL0041AA0094 REV.1

A. MAXIMUM RATING:

1. Operating temperature range: -40 °C to +85 °C

2. Storage temperature range: -40 °C to +85 °C

3. Impedance : 50Ω

4. Moisture Sensitive Level: Level 1 (MSL1) (Refer to : IPC/JEDEC J-STD-020)

RoHS Compliant Lead free Lead-free soldering

B. <u>ELECTRICAL CHARACTERISTICS</u>:

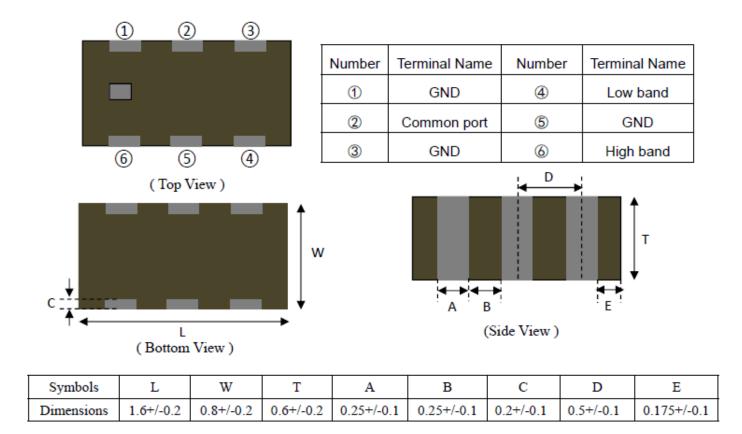
Lower Band

Item	Specifications
Frequency Range	2400 ~ 2500 MHz
Insertion Loss	≦0.9 dB
Return Loss (in BW)	≥13 dB (2400 ~ 2500 MHz)
	≥17 dB(700 ~ 1300 MHz)
Attenuation	≥25 dB(4800 ~ 5000 MHz)
	≥27 dB(7200 ~ 7500 MHz)
In/Output Impedance	50Ω

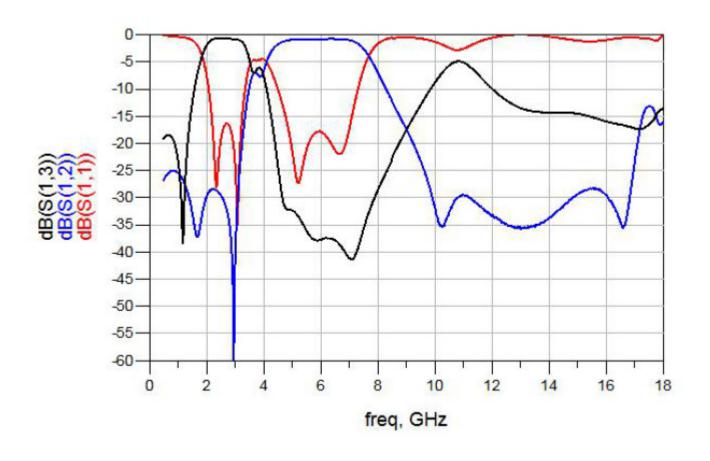
Higher Band

Parameters	Specifications
Frequency Range	4900 ~ 5950 MHz
Insertion Loss	≦1.1 dB
Return Loss (in BW)	≥13 dB (4900 ~ 5950 MHz)
	≥25 dB(1200 ~ 1500 MHz)
	≥26 dB(1600 ~ 2000 MHz)
Attenuation	≥25 dB(2300 ~ 3000 MHz)
Attenuation	≥28 dB(10000 ~ 12000 MHz)
	≥20 dB(15000 ~ 16500 MHz)
	≥10 dB(16500 ~ 18000 MHz)
In/Output Impedance	50Ω

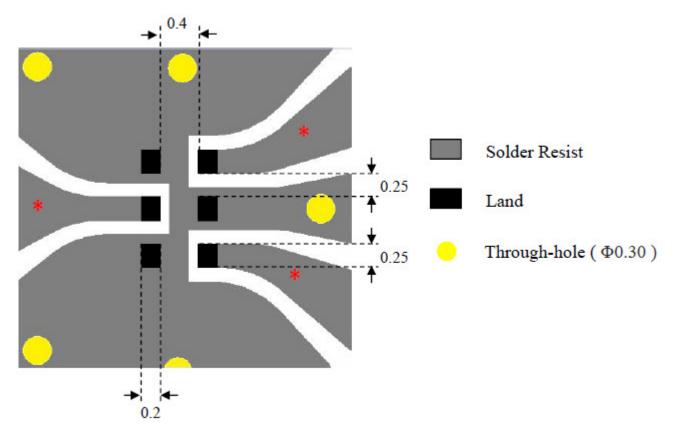
C. OUTLINE DRAWING:



D. FREQUENCY CHARACTERISTICS:



E. PCB FOOT PRINT:

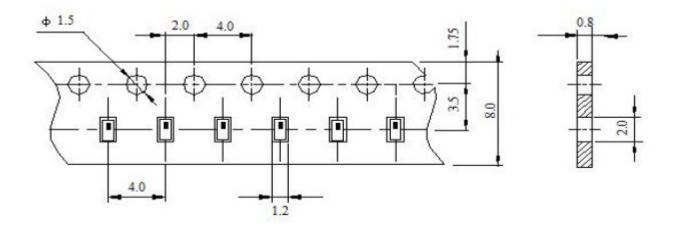


Unit: mm

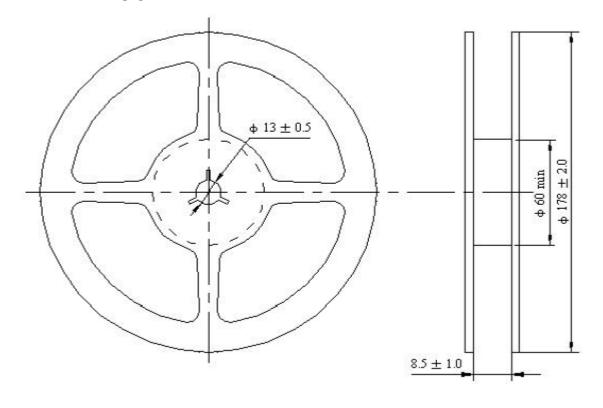
Line width should be designed to match 50Ω characteristic impedance , depending on PCB material and thickness.

F. PACKING:

1. TAPE DIMENSION



2. REEL DIMENSION



G. RECOMMENDED REFLOW PROFILE:

- 1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
- 2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
- 3. Heating shall be fixed at 220°C for 50~80 seconds and at 260°C+0/-5°C peak (20~40sec).
- 4. Time: 2 times.

