



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.

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Product Specifications Approval Sheet

Product Name: Multi-layer Filter 2450 MHz SMD 1.6x0.8 mm (BW=100 MHz)

TST Parts No.: TL0010A

Customer Parts No.: _____

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

Checked by: _____ Nina Chen *Nina Chen*

Approved by: _____ Kazuma Lee *Kazuma Lee*

Date: _____ 2022/10/17

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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Multi-layer Filter 2450 MHz

MODEL NO.: TL0010A

REV. NO.:5.0

A. MAXIMUM RATING:

1. Input Power Level: 0.5 W max
2. Operating Temperature: -40°C to +85°C
3. Storage Temperature: -40°C to +85°C
4. Moisture Sensitive Level: Level 1 (MSL1)

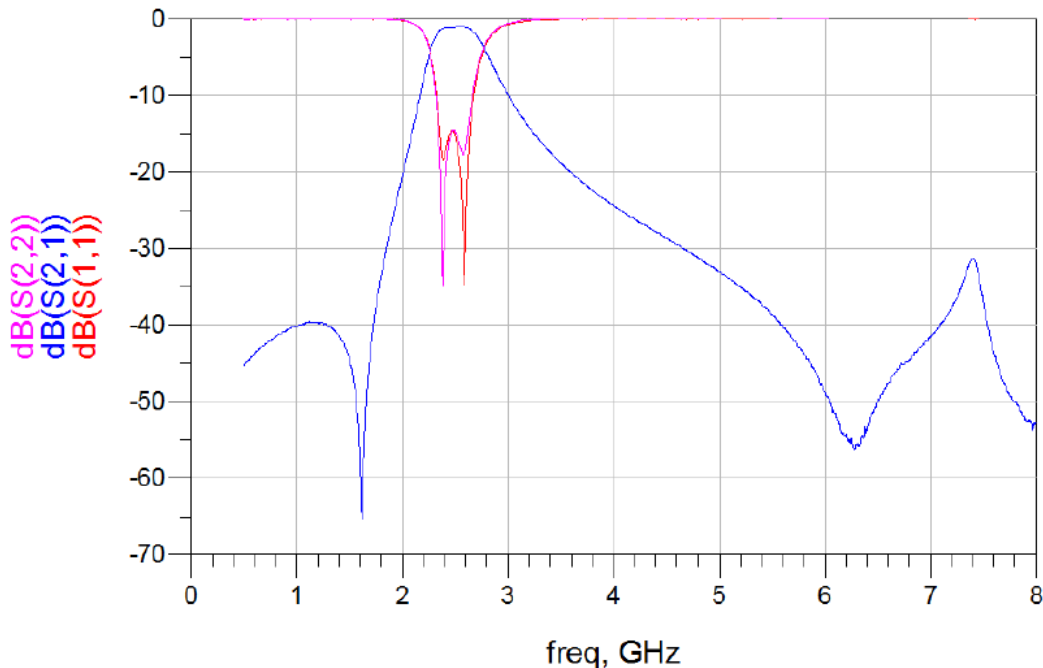
RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

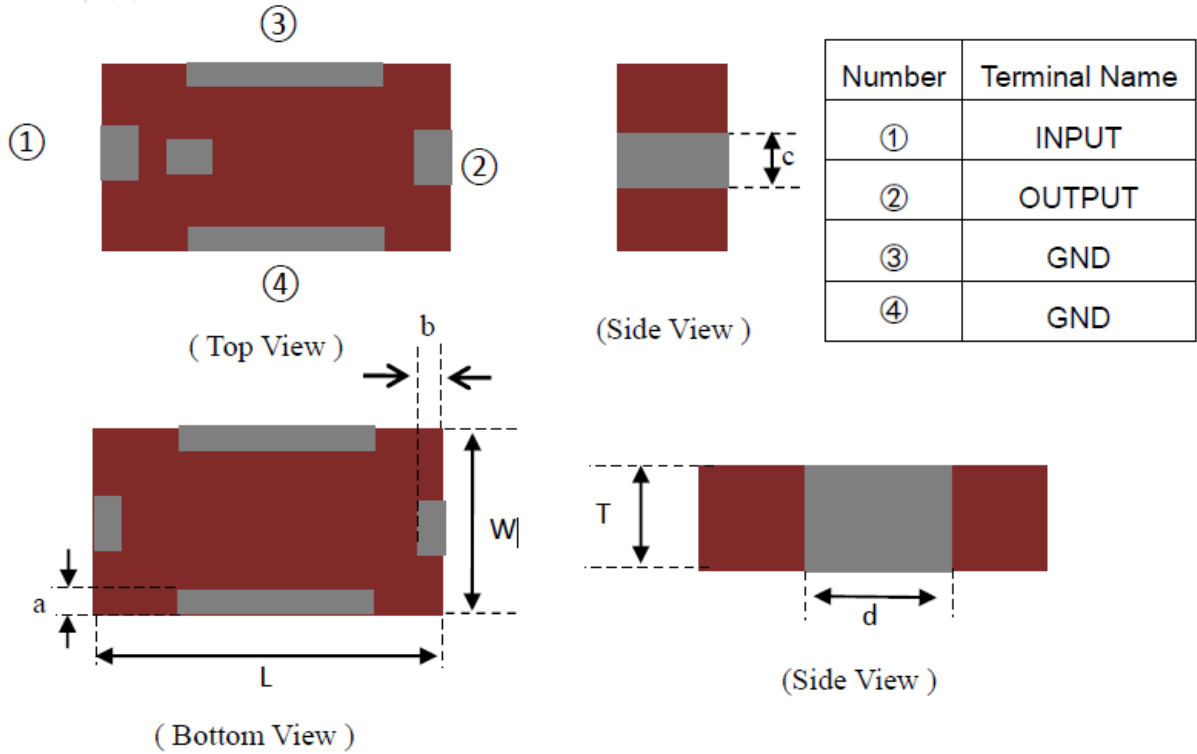
B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Max.	Note
Center Frequency Fc	MHz	2450	
Insertion loss (2400~2500 MHz)	dB	1.7(max)	at 25±5°C
Insertion loss (2400~2500 MHz)	dB	2.2(max)	at -40°C~+120°C
VSWR (2400~2500 MHz)	-	2.0(max)	
Attenuation	880 ~ 915 MHz	dB	30(min)
	1710~1785 MHz	dB	30(min)
	1850~1910 MHz	dB	25(min)
	4800 ~ 5000 MHz	dB	25(min)
	7200 ~ 7500 MHz	dB	15(min)

C. Frequency Characteristics:

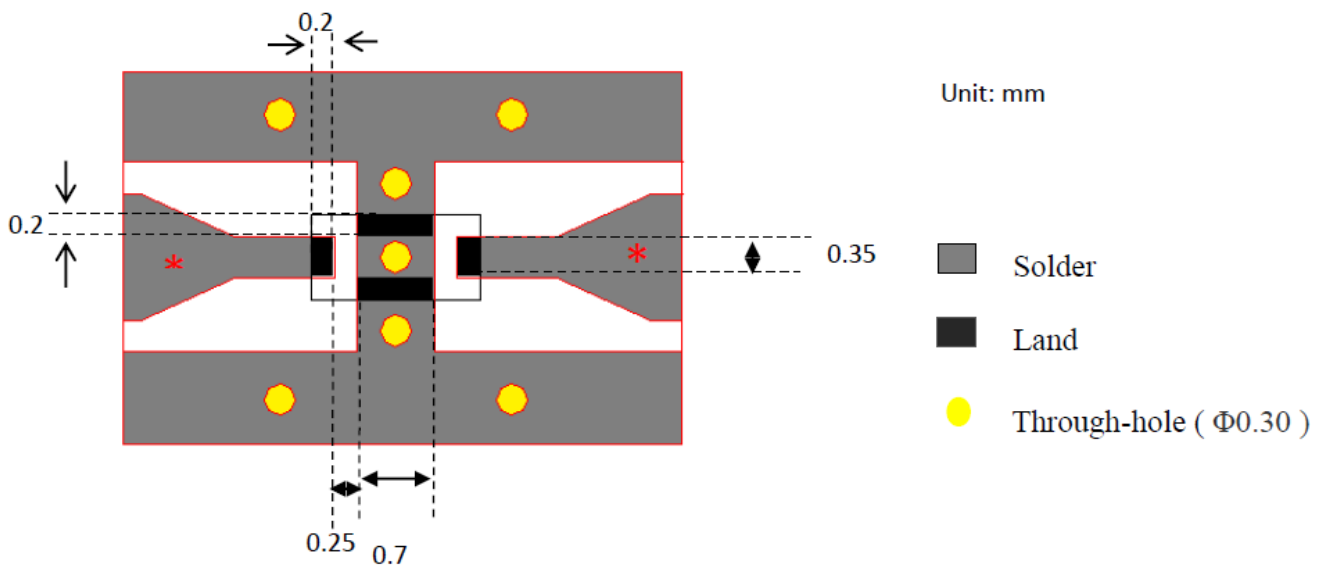


D. OUTLINE DRAWING:



Symbols	L	W	T	a	b	c	d
Dimensions	1.6+/-0.2	0.8+/-0.2	0.6+/-0.2	0.2+/-0.1	0.2+/-0.1	0.35+/-0.1	0.7+/-0.1

E. PCB Footprint:

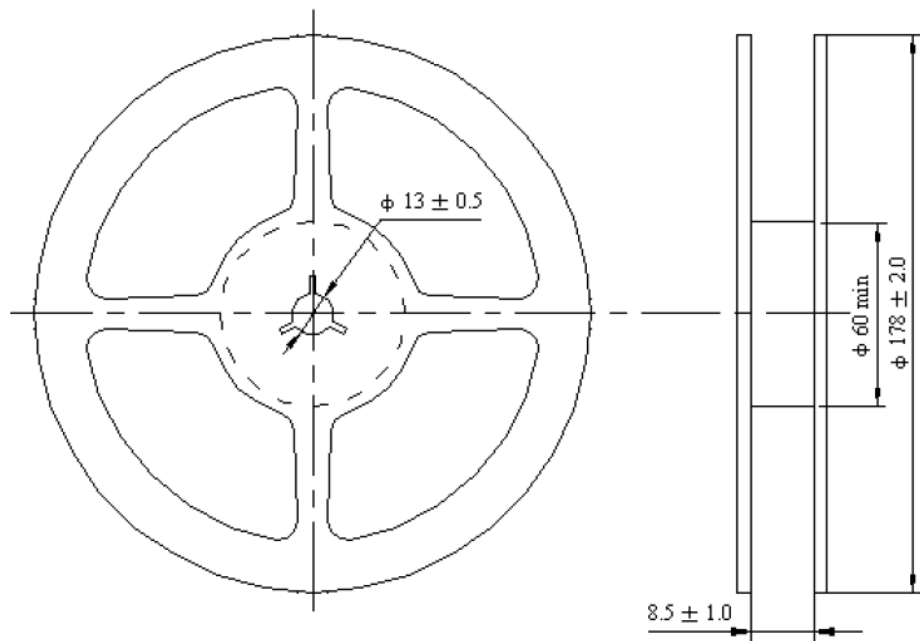


*Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.

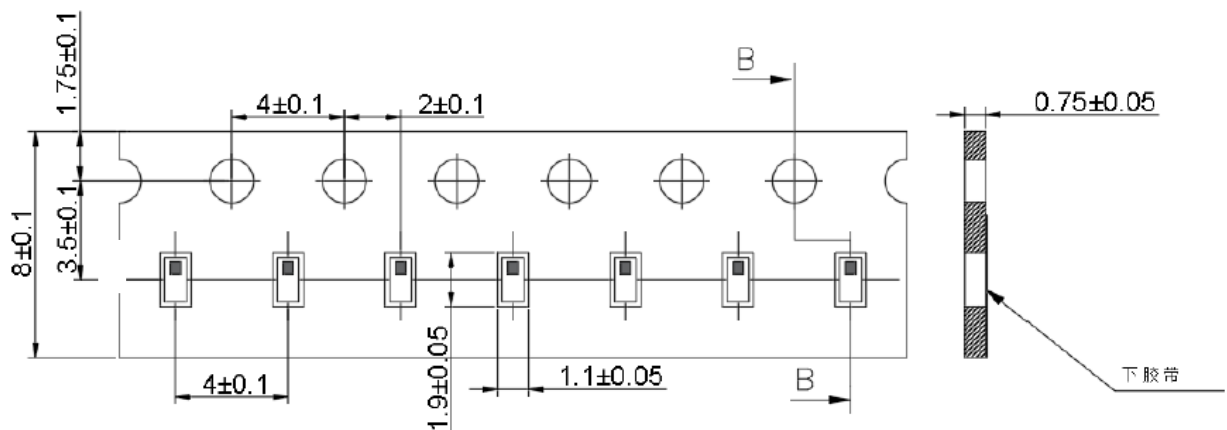
F. PACKING:

1. REEL DIMENSION

(6000 pcs/Reel)



2. TAPE 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.

