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: tstsales@mail.taisaw.com Web: www.taisaw.com

Product Specifications Approval Sheet

Product Description: LTCC Filter 2450 MHz SMD 2.0x1.25 mm (100MHz BW)

TST Part No.: TL0009A

Customer Part No.:_____

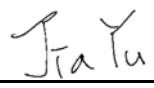
Customer signature required

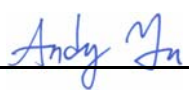
Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Jia Yu Fan  _____

Approved by:_____ Andy Yu  _____

Date:_____ 2021/08/12 _____

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 MHz SMD 2.0X1.25 mm (100 MHz BW)

MODEL NO.:TL0009A REV.2.0

A. MAXIMUM RATING:

1. Operating temperature range: -40°C to +85°C
2. Storage temperature range: -40 °C to +85 °C
3. Moisture Sensitive Level: Level 1 (MSL1)

RoHS Compliant
Lead-free soldering

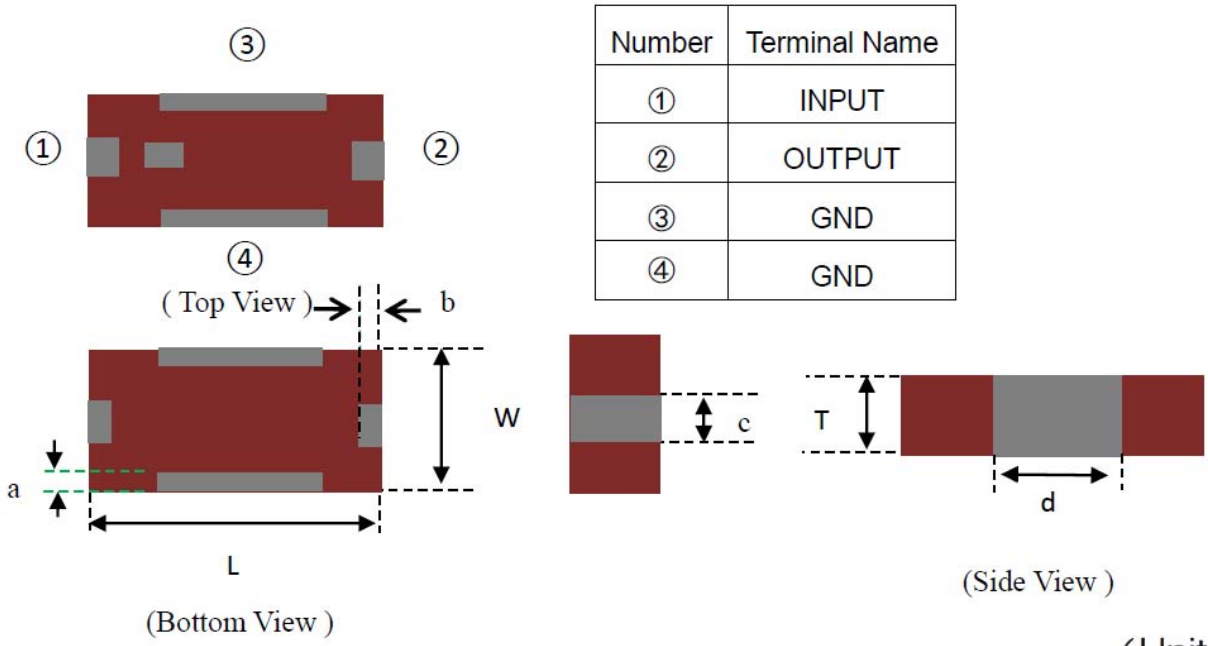
Electrostatic **S**ensitive **D**evice (**ESD**)

B. ELECTRICAL CHARACTERISTICS:

Source impedance (unbalanced) : Zs = 50 Ω
Load Impedance (balanced) : Z_L = 50 Ω

Item	Unit	Spec
Frequency Range	MHz	2450
Insertion Loss (2400 ~ 2500 MHz)	dB	≦1.5dB (at 25℃±5℃)
		≦2.0dB (at -40℃~85℃)
Band Width	MHz	fo±50.0
V.S.W.R(in BW)		≦2.0
Attenuation	dB	≧30dB (880 ~ 915 MHz)
		≧30dB (1710 ~ 1785 MHz)
		≧25dB (1850 ~ 1910 MHz)
		≧25dB (4800 ~ 5000 MHz)
		≧15dB (7200 ~ 7500 MHz)
Permissible Input Power	W	0.5
In/Output Impedance	Ω	50

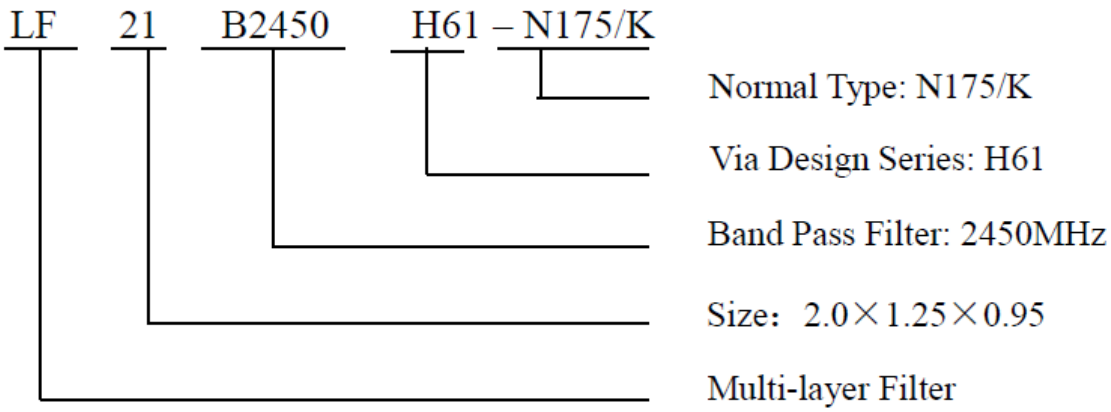
C. Outline Drawing :



Number	Terminal Name
①	INPUT
②	OUTPUT
③	GND
④	GND

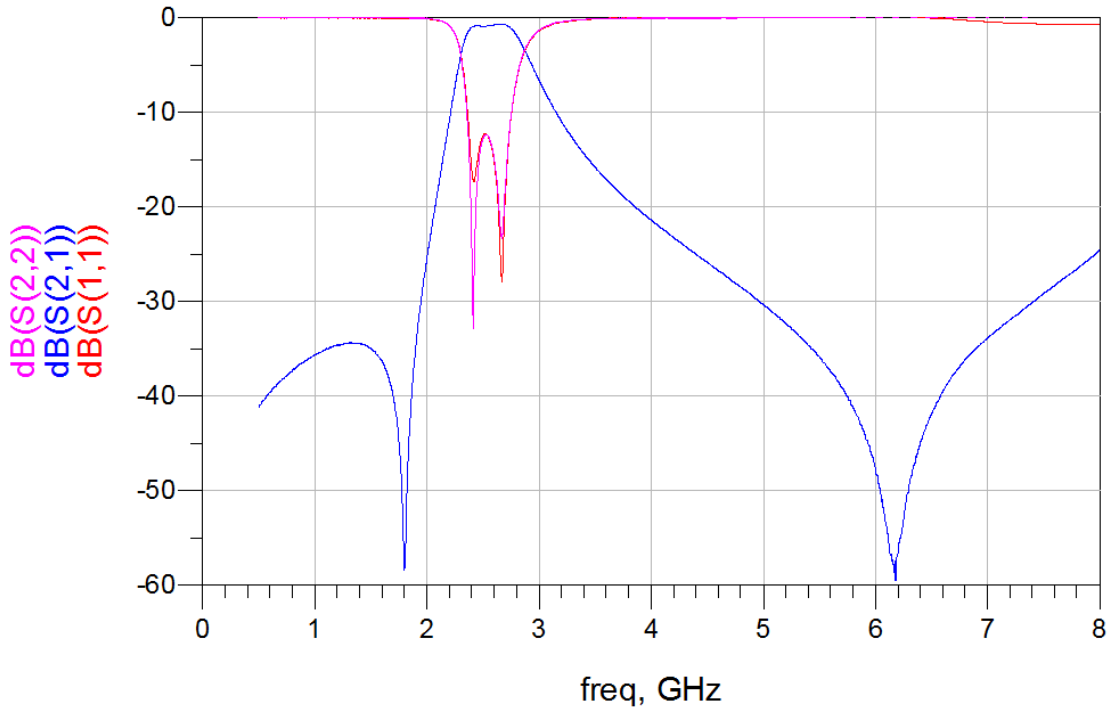
(Unit: mm)

Symbols	L	W	T	a	b	c	d
Dimensions	2.0+/-0.2	1.25+/-0.2	0.95+/-0.2	0.2+/-0.1	0.3+/-0.1	0.3+/-0.1	1.3+/-0.1

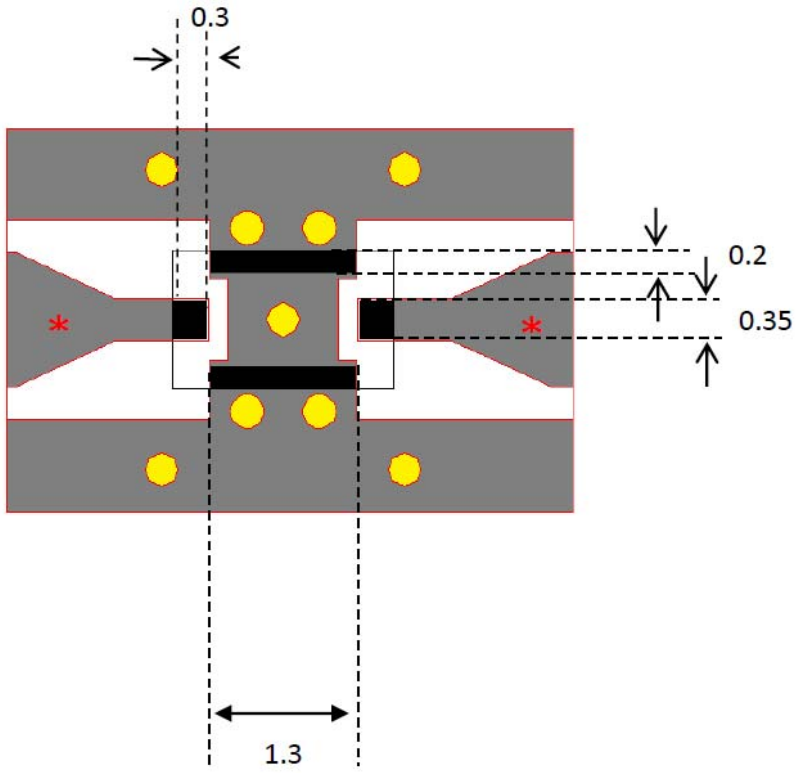


D. FREQUENCY CHARACTERISTICS:

Frequency Response



E. PCB Footprint



Unit: mm

Solder

Land

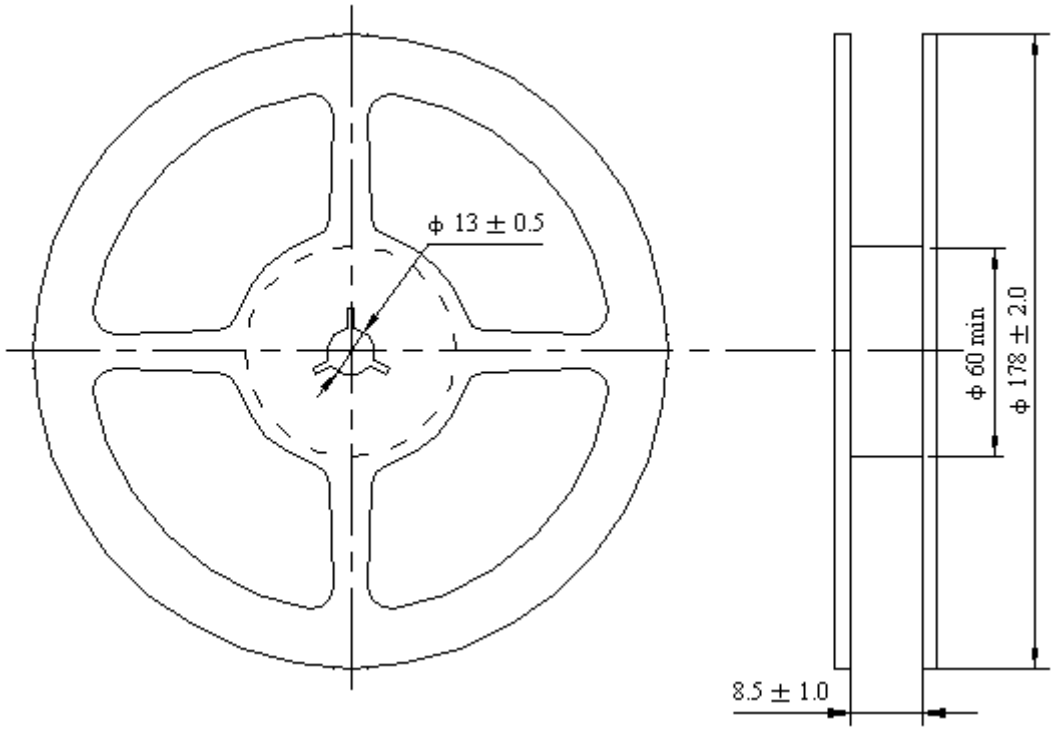
Through-hole (Φ0.30)

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

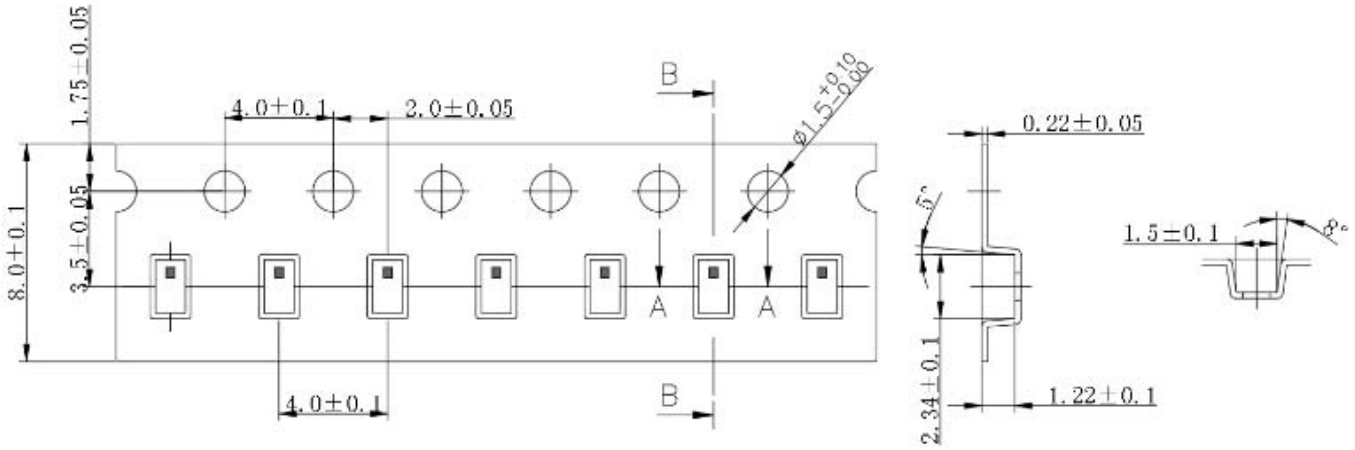
F. <u>PACKING:</u>

1. REEL DIMENSION (4000 PCS/Reel)

(Please refer to FR-75D10 for packing quantity)



2. TAPE DIMENSION



G . RECOMMENDED REFLOW PROFILE: