



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 Size 2.0x1.25 mm (100MHz BW)

TST Part No.: TL0009BA0094 (This part is compliant by AEC-Q200)

Customer Part No.: _____

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

Checked by: _____ Hong Pu Lin *Hong Pu Lin*

Approved by: _____ Andy Yu *Andy Yu*

Date: _____ 2020/12/28

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 Size 2.0X1.25 mm (100 MHz BW)

MODEL NO.: TL0009BA0094 (AEC-Q200)

REV.1

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
Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

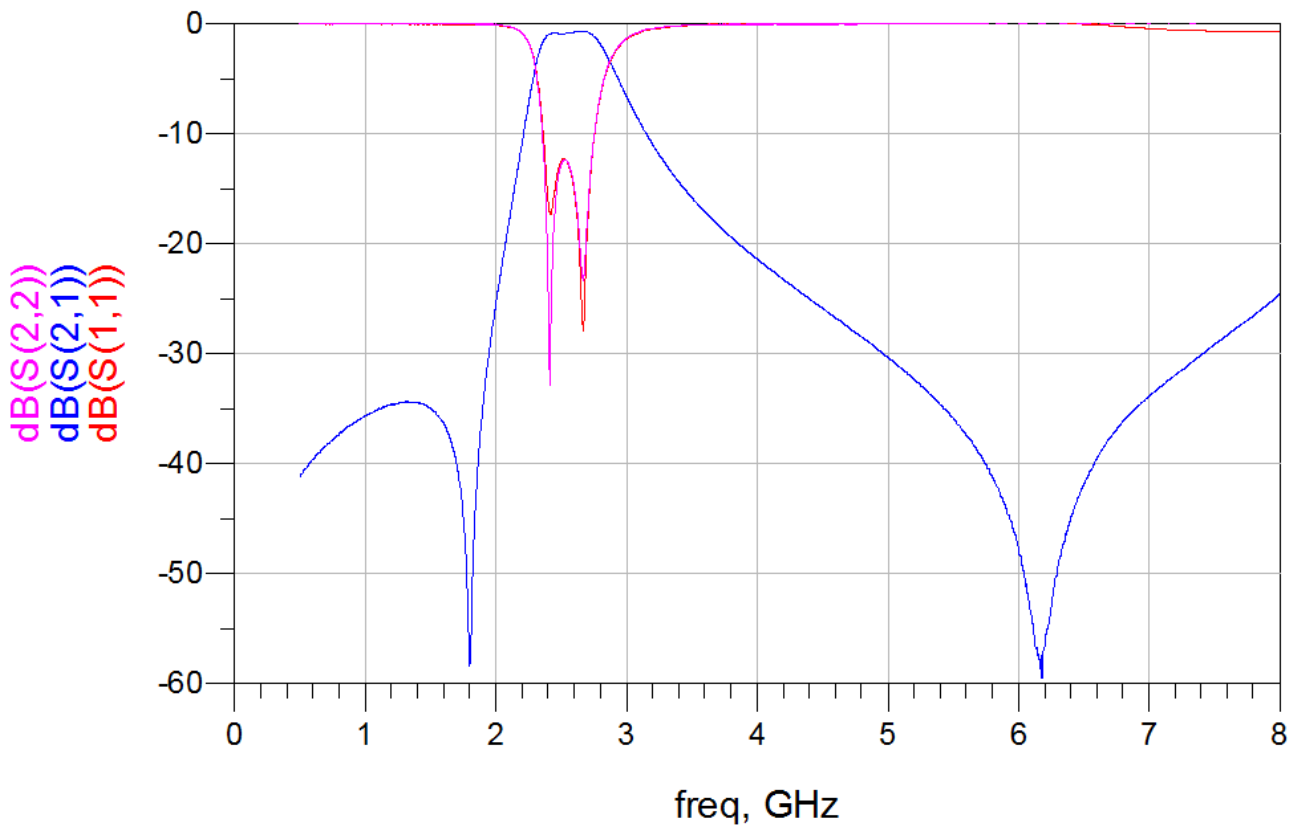
Source impedance (unbalanced) : $Z_s = 50 \Omega$

Load Impedance (balanced) : $Z_L = 50 \Omega$

Item	Unit	Spec
Frequency Range	MHz	2450
Insertion Loss (2400 ~ 2500 MHz)	dB	$\leq 1.5\text{dB}$ (at $25^\circ\text{C} \pm 5^\circ\text{C}$)
		$\leq 2.0\text{dB}$ (at $-40^\circ\text{C} \sim 85^\circ\text{C}$)
Band Width	MHz	$f_0 \pm 50.0$
V.S.W.R.(in BW)		≤ 2.0
Attenuation	dB	$\geq 30\text{dB}$ (880 ~ 915 MHz)
		$\geq 30\text{dB}$ (1710 ~ 1785 MHz)
		$\geq 25\text{dB}$ (1850 ~ 1910 MHz)
		$\geq 25\text{dB}$ (4800 ~ 5000 MHz)
		$\geq 15\text{dB}$ (7200 ~ 7500 MHz)
Permissible Input Power	W	0.5
In/Output Impedance	Ω	50

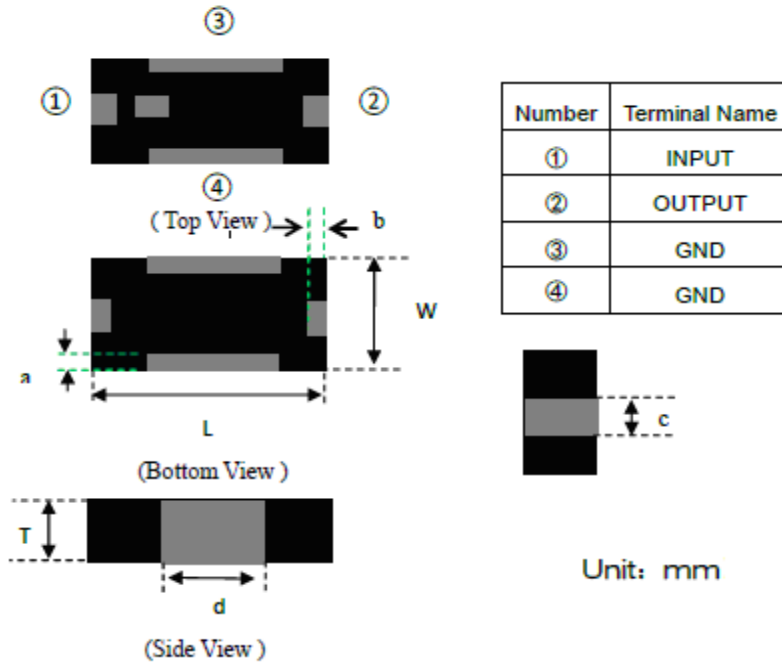
C. FREQUENCY CHARACTERISTICS:

Frequency Response

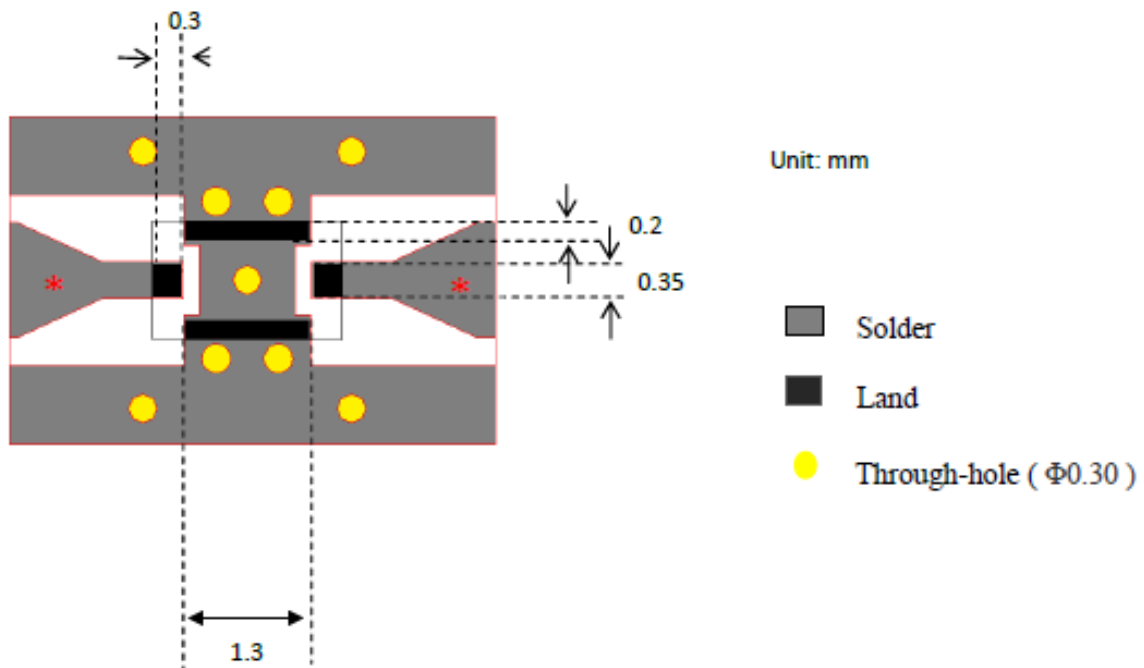


D. Outline Drawing :

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	0.35+/-0.1	1.3+/-0.1



E. PCB Footprint

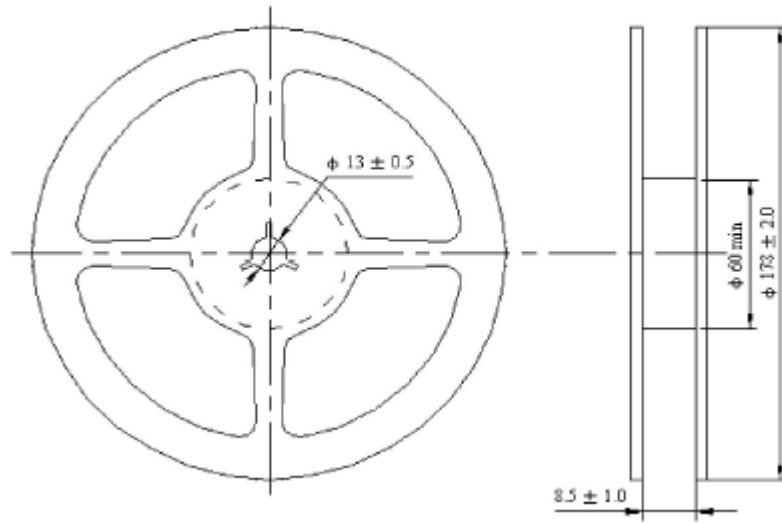


*Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.

F. PACKING:

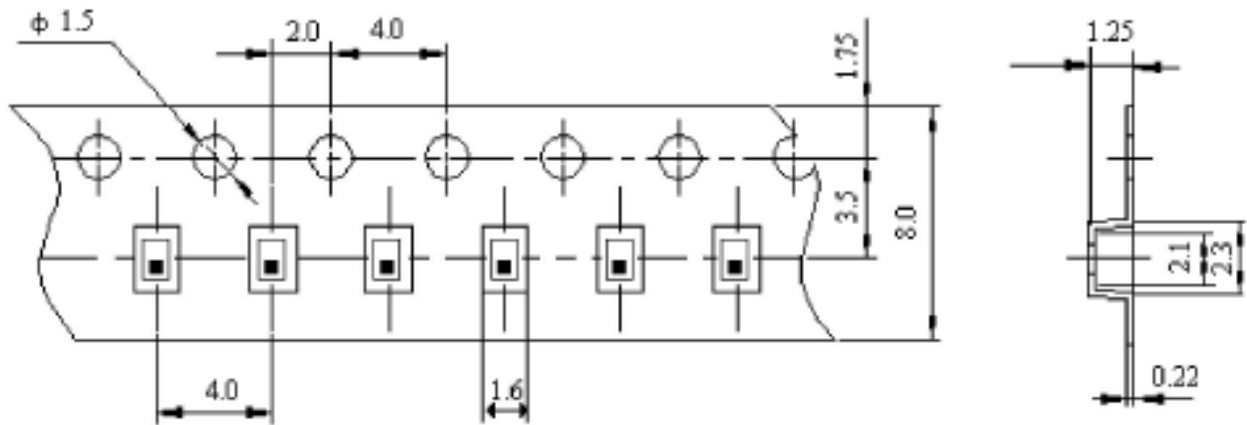
1. REEL DIMENSION (4000 PCS)

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



2. TAPE

DIMENSION



G . RECOMMENDED REFLOW PROFILE :

