



TAI-SAW TECHNOLOGY CO., LTD.

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

Product Description: LTCC Filter 5550 MHz Size 1.6x0.8 mm (800MHz BW)

TST Part No.: TL0040A (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: _____ 2020/06/01

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 5550 MHz SMD 1.6X0.8 mm (800 MHz BW)

MODEL NO.: TL0040A

REV.1

A. MAXIMUM RATING:

1. Operating temperature range: -40 °C to +150 °C
2. Storage temperature range: -40 °C to +150 °C
3. Moisture Sensitive Level: Level 1 (MSL1)



Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

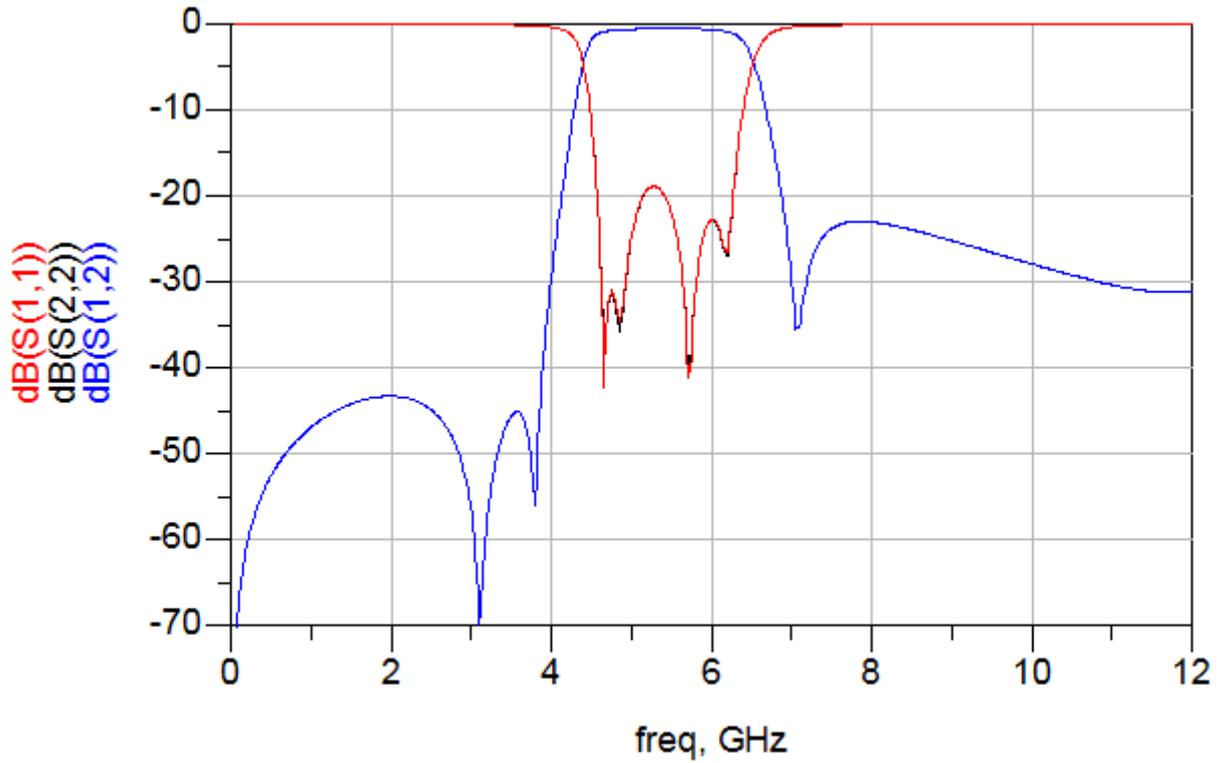
Source impedance (unbalanced) : $Z_s = 50 \Omega$

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

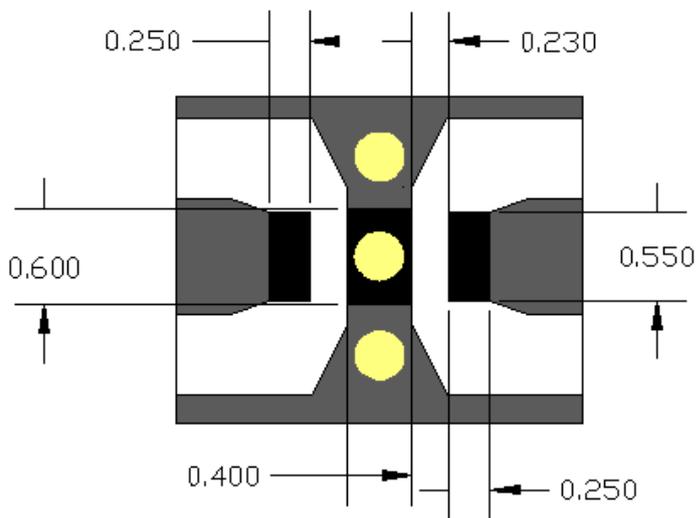
Item	Unit	Spec
Frequency Range	MHz	5150~5950
Insertion Loss @25 degree C	dB	≤ 1.2 dB
Return Loss (in BW)	dB	≥ 9.5 dB
Attenuation		
30 ~ 2700MHz	dB	≥ 40 dB
3400 ~ 3800MHz	dB	≥ 35 dB
@6900MHz	dB	≥ 20 dB
7250 ~ 7800MHz	dB	≥ 18 dB
10300 ~11700 MHz	dB	≥ 20 dB
Permissible (MAX) Input Power	W	0.5

C. FREQUENCY CHARACTERISTICS:

Frequency Response

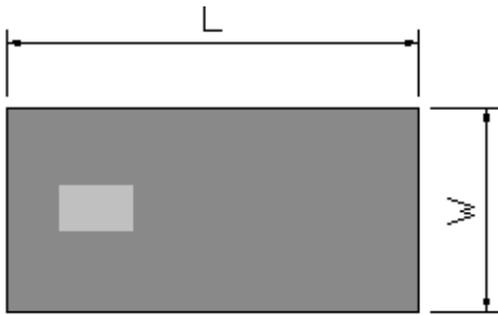


D. PCB FOOTPRINT:

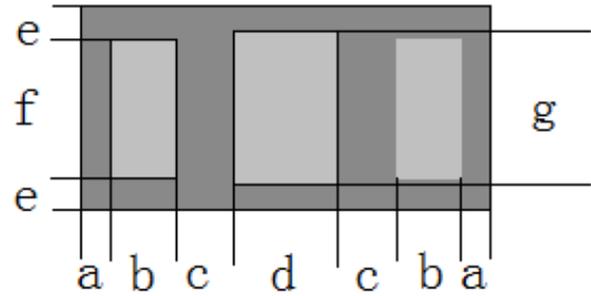


-  Solder resist
-  No pattern Solder resist
-  Land
-  Through hole

E. OUTLIN DRAWING:



Top View



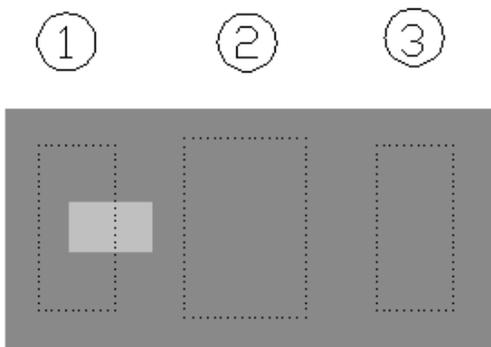
Bottom View



Side View

Unit : mm

Mark	L	W	T	a	b	c	d	e	f	g
Dimensions	1.6±0.2	0.8±0.2	0.6±0.1	0.12±0.1	0.25±0.1	0.23±0.1	0.4±0.1	0.125±0.1	0.55±0.1	0.6±0.1

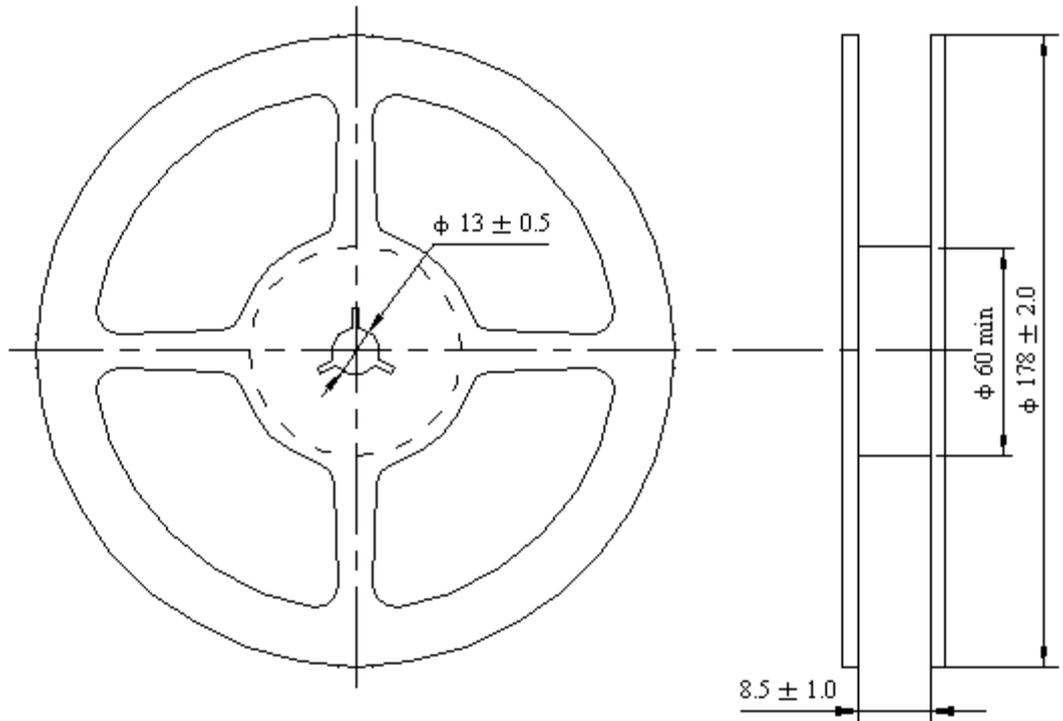


Number	Terminal Name
①	IN
②	GND
③	OUT

F. PACKING:

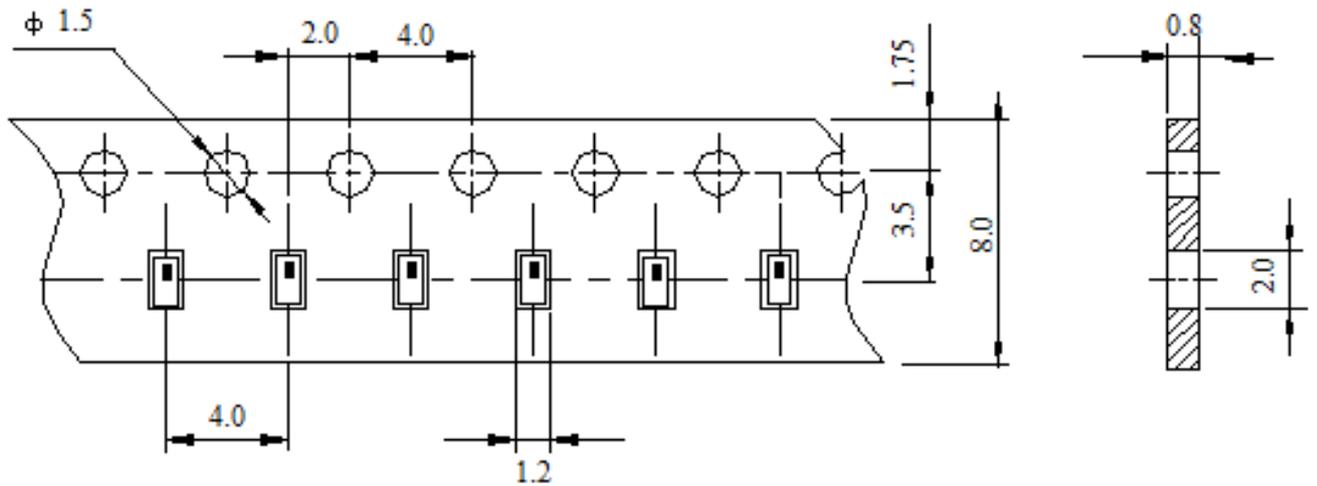
1. REEL DIMENSION (6000 PCS)

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



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 245~260°C peak (min. 10sec).
4. Time : 2 times.

