



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Name: Tx Low Pass 2450 MHz (2400~2500 MHz)

High Pass 5500 MHz (5150~5850MHz) SMD 1.6X0.8 mm (Diplexer filter)

TST Parts No.: TL0017A (This part is compliant with AEC-Q200)

Customer Parts No.: _____

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

Checked by: _____ Anne Chen *Anne Chen*

Approval by: _____ Andy Yu *Andy Yu*

Date: _____ 2018/08/16

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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LTCC Filter Low Pass 2450 MHz ,High Pass 5500 MHz

MODEL NO.:TL0017A

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 30 dBm
2. DC Voltage : 5V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 1 (MSL 1)
6. No Marking

RoHS Compliant
 Lead free
 Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance : $Z_s = 50 \Omega$

Terminating load impedance : $Z_L = 50 \Omega$

1. Lower Band

Item	Unit	Spec
Frequency Range	MHz	2450±50
Insertion Loss (2400~2500 MHz) IL	dB	0.6 Max(1)
VSWR (2400~2500 MHz)	dB	2.0 Max
Attenuation (Reference level from 0 dB)		
4800 ~ 5000MHz	dB	25 Min
7200 ~ 7500MHz	dB	30 Min
7500 ~ 12000MHz	dB	20 Min

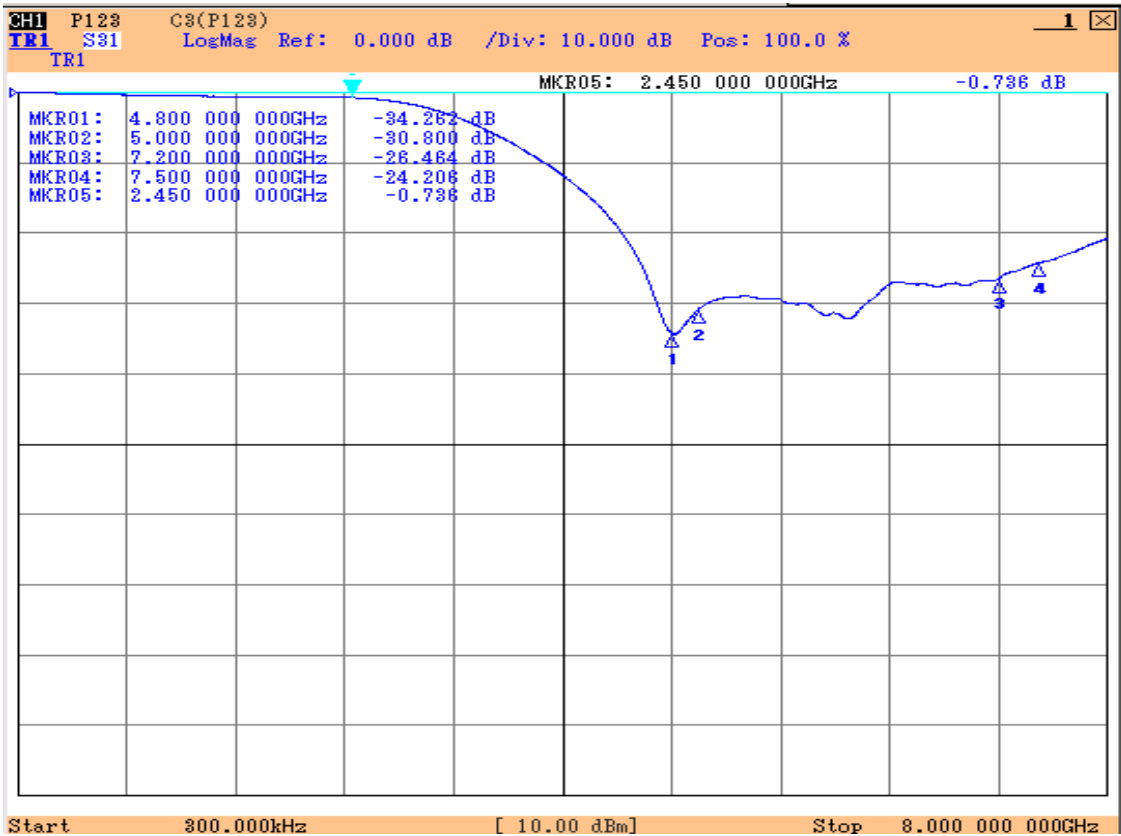
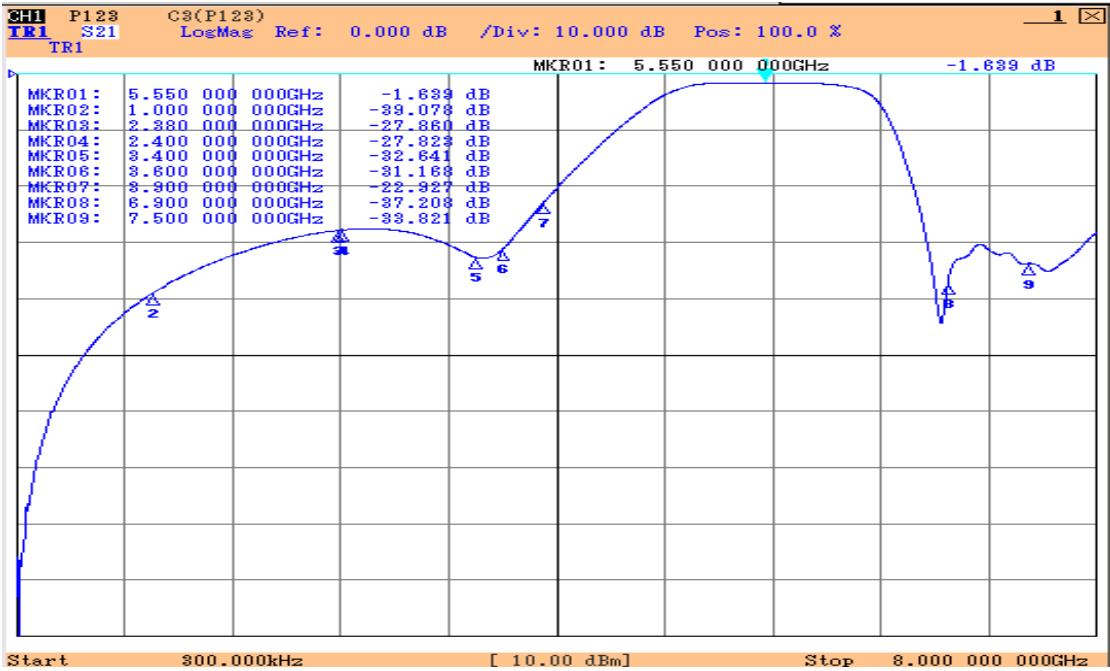
2. Higher Band

Item	Unit	Spec
Frequency Range	MHz	5500±350
Insertion Loss (5150~5850 MHz) IL	dB	1.5 Max(1)
VSWR (5150~5850 MHz)	dB	2.0 Max
Attenuation (Reference level from 0 dB)		
30 ~ 1000MHz	dB	25 Min
2380MHz	dB	25 Min
2400 ~ 2500MHz	dB	25 Min
3400 ~ 3600MHz	dB	15 Min
3600 ~ 3900MHz	dB	10 Min
6900 ~ 7550MHz	dB	20 Min

7550MHz ~ 10600MHz	dB	30 Min
10600 ~ 11700MHz	dB	30 Min
15300 ~ 16200MHz	dB	20 Min

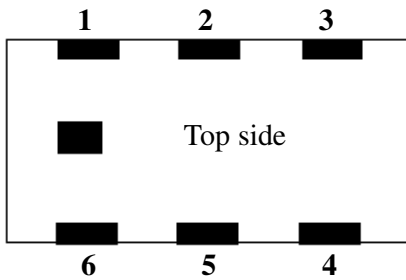
(1)The spec without PCB loss

C. Frequency Characteristics : (Characteristic curve)

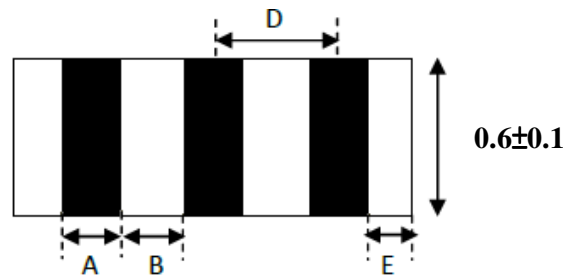
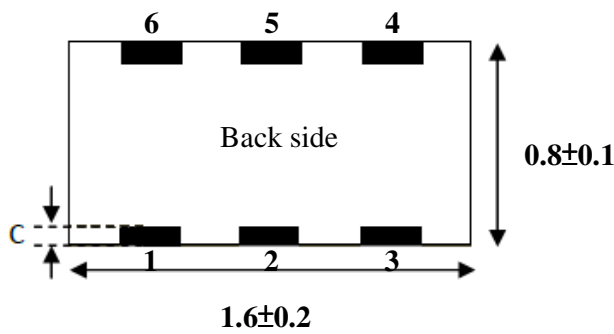


*The loss including PCB loss

D. Pin Assignment : (Diplexer)

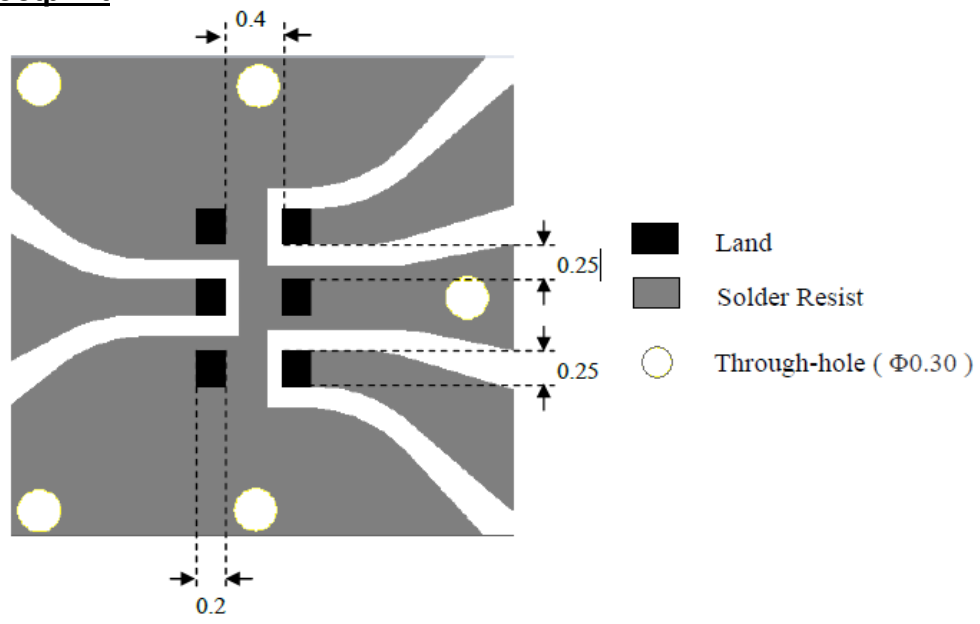


Pin 1 High Port
 Pin 3 Low Port
 Pin 5 Com Port
 Pin 2,4,6 GND



Symbols	A	B	C	D	E
Dimensions	0.25 ± 0.1	0.25 ± 0.1	0.2 ± 0.1	0.5 ± 0.1	0.175 ± 0.1

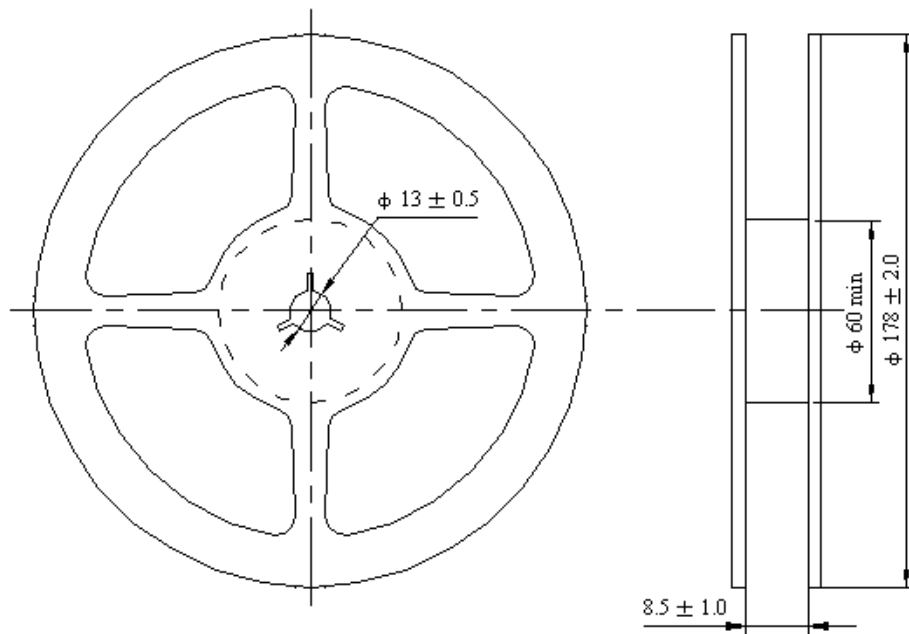
E. PCB Footprint



F. PACKING:

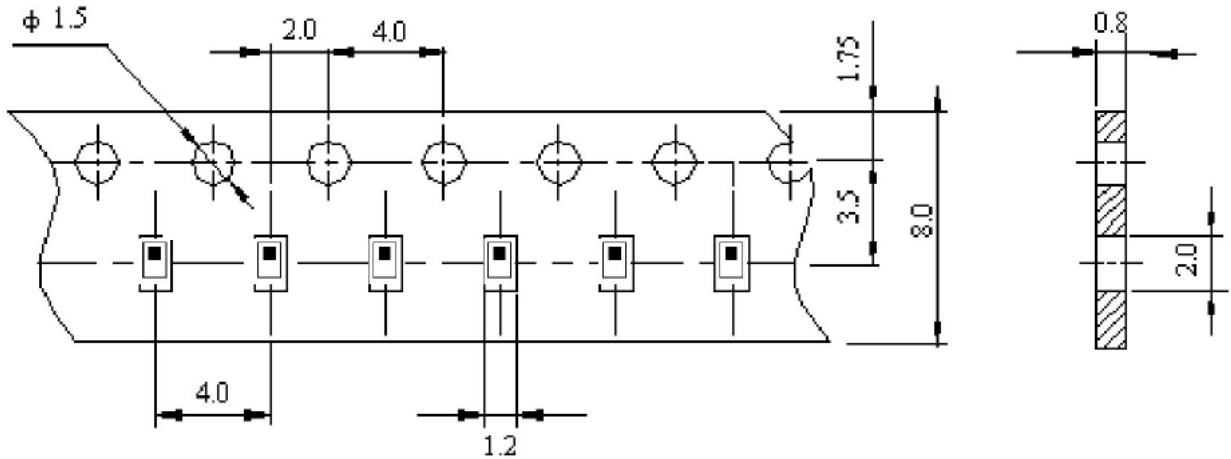
1. REEL DIMENSION (6000 pcs/Reel)

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



2. TAPE

DIMENSION



F. RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at $150\sim 180^{\circ}\text{C}$ 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 $245\sim 260^{\circ}\text{C}$ peak (min. 10sec).
4. Time : 2 times.

