



TAI-SAW TECHNOLOGY CO., LTD.

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

Product Description: 5788MHz 125MHzBW SMD2.5x2.0 mm LTCC Filter

TST Part No.: TL0019A(This part is compliant with AEC-Q200)

Customer Part No.: _____

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

Checked by: _____ Hongpu Lin *Hongpu Lin*

Approved by: _____ Andy Yu *Andy Yu*

Date: _____ 2019/04/12

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 5788 MHz SMD 2.5x2.0 mm (125 MHz BW)

MODEL NO.:TL0019A

REV.3.0

A. MAXIMUM RATING:

1. Input Power : 1W
2. Operating temperature range: -40 °C to +125 °C
3. Storage temperature range: -40 °C to +125 °C
4. Moisture Sensitivity Level: Level 1(MSL1)

RoHS Compliant
Lead free
Lead-free soldering

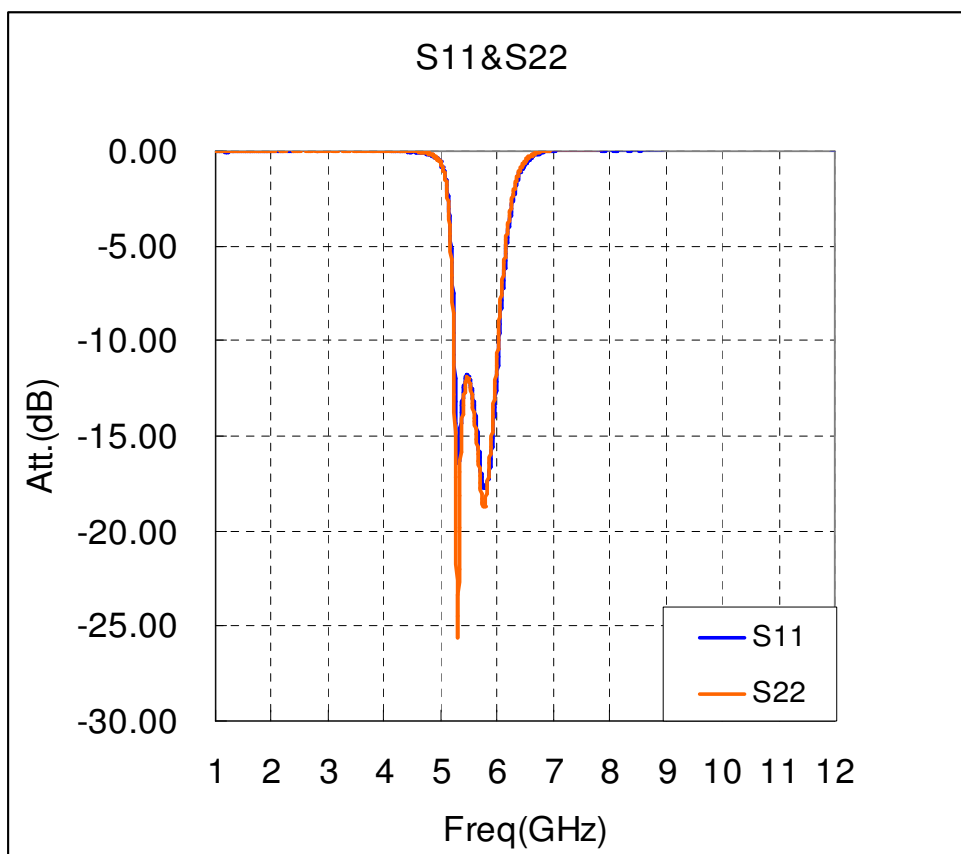
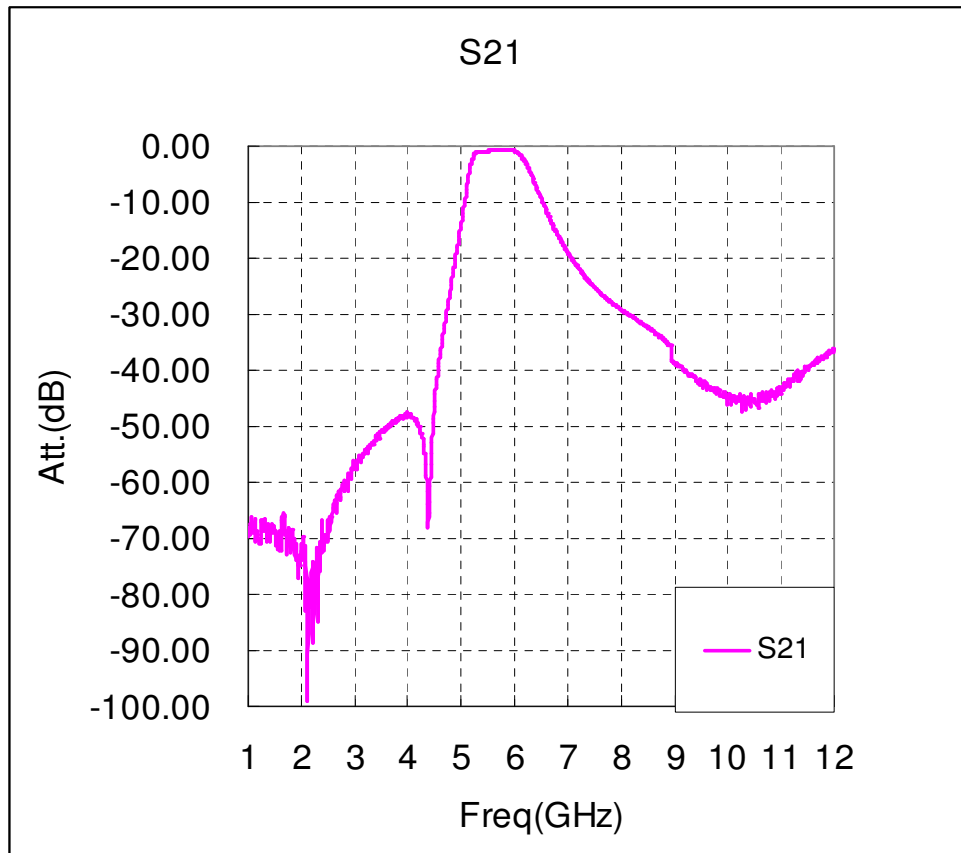
Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Spec.
Central Frequency Fc	MHz	5788
Band Width	MHz	125
Insertion loss (5725 ~ 5850 MHz) @25°C IL	dB	1.6 Max
Insertion loss (5725 ~ 5850 MHz) @40°C-125°C IL	dB	2.4 Max
Return Loss (5725 ~ 5850 MHz)	dB	10 Min
Attenuation (Reference level from 0 dB)		
1908 ~ 1950 MHz	dB	50 Min
3816 ~ 3900 MHz	dB	47 Min
11450 ~ 11700 MHz	dB	25 Min
In/Out put Impedance	Ω	50

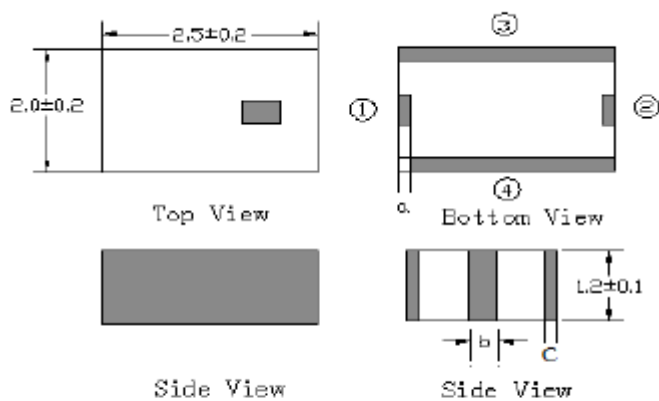
C. FREQUENCY CHARACTERISTICS:

Frequency Response



D. OUTLINE DRAWING:

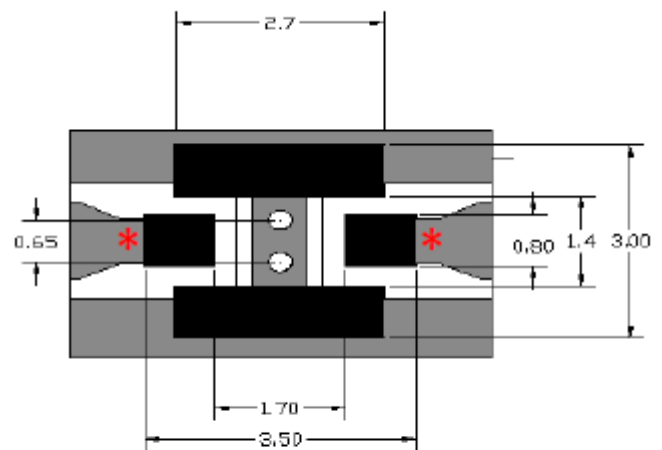
Dimensions (Unit: mm)



a $0.25 \pm 0.20 \text{ mm}$ b $0.50 \pm 0.20 \text{ mm}$

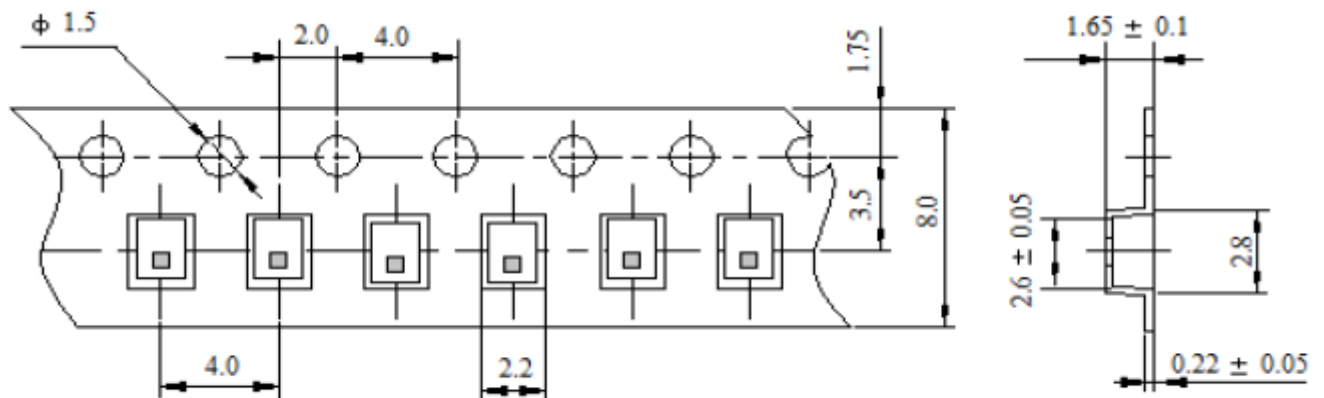
c $0.20 \pm 0.20 \text{ mm}$

① In ② Out ③④ GND

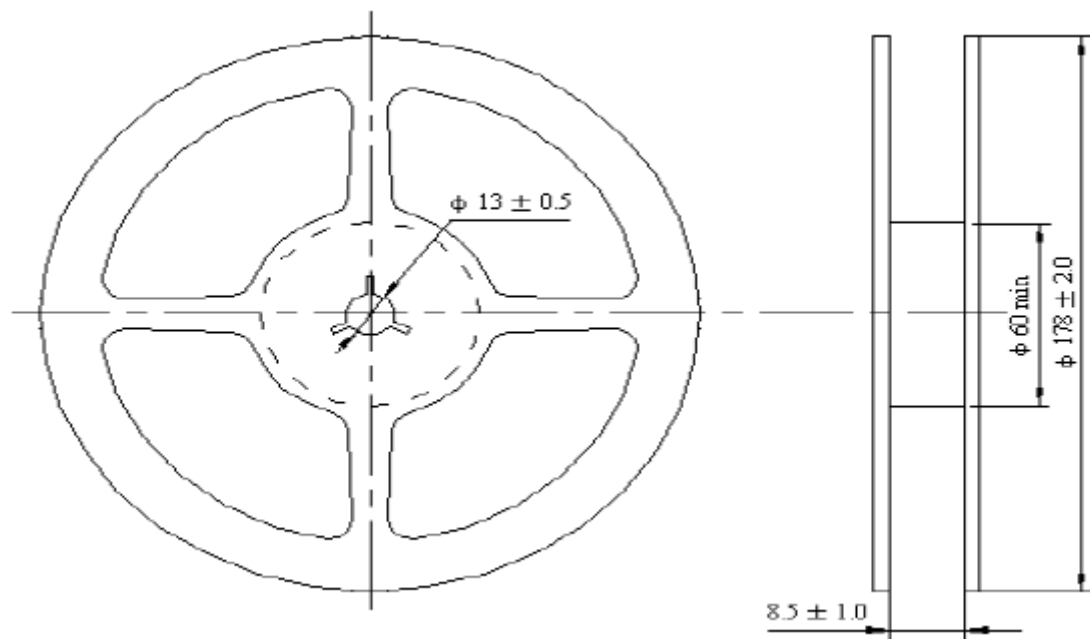


Solder resist
 No pattern Solder resist
 Land
 Through hole($\phi 0.3$)

E. PACKING: Reel (2500 pcs/Reel)



Tolerance: $\pm 0.1 \text{ mm}$



Reserve a length of 150~200mm for the trailer of the carrier and 250~300 mm for the leader of the carrier and further 250mm of cover tape at the leading part of the carrier.

F. RECOMMENDED REFLOW PROFILE:

