



TAI-SAW TECHNOLOGY CO., LTD.

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

Product Name: SAW Filter 1575.42 MHz SMD 1.4X1.1 mm (BW=2.4 MHz)

TST Parts No.: TA2559A

Customer Parts No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ David Chang *David*

Approved by: _____ Andy Yu *Andy Yu*

Date: _____ 2019/03/29

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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SAW Filter 1575.42 MHz

MODEL NO.: TA2559A

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 15 dB_m
2. DC voltage: 3 V
3. Operating Temperature: -55°C to +85°C
4. Storage Temperature: -55°C to +85°C
5. Moisture Sensitivity Level: Level 3(MSL3)

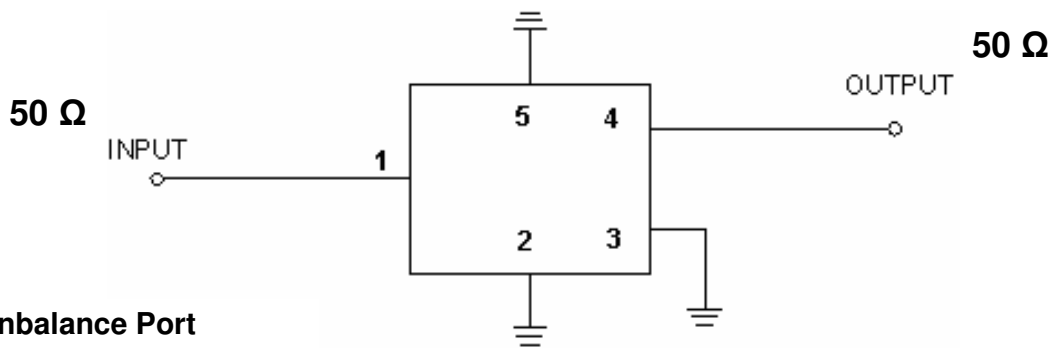
RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

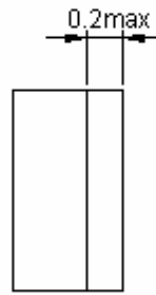
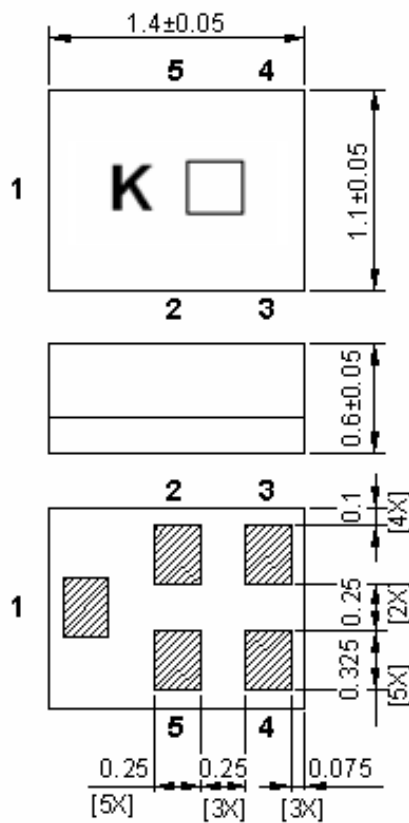
Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	1575.42	-
Insertion Loss (1574.22~1576.62 MHz) IL	dB	-	1.2	2.5
Amplitude Ripple (1574.22~1576.62 MHz)	dB _{P-P}	-	0.1	1.2
Return Loss (1574.22~1576.62 MHz)	dB	10	20	-
Attenuation (Reference level from 0 dB)				
824 ~ 960 MHz	dB	30	36	-
1500 ~ 1525.42 MHz	dB	21	46	-
1625.42 ~ 1650 MHz	dB	21	42	-
1710 ~ 2170 MHz	dB	30	36	-
Temperature coefficient of frequency	ppm/k	-	-36	-

C. MEASUREMENT CIRCUIT:



(1): Unbalance Port
(4): Unbalance Port
Others: Ground

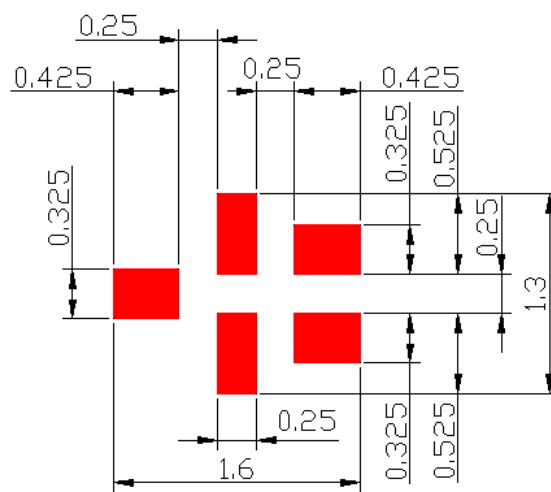
D. OUTLINE DRAWING:



All tolerances are ± 0.05 mm unless otherwise specified
 Coplanarity : 0.1 mm max.
 1 to 5 : Pin No.
 Unit : mm

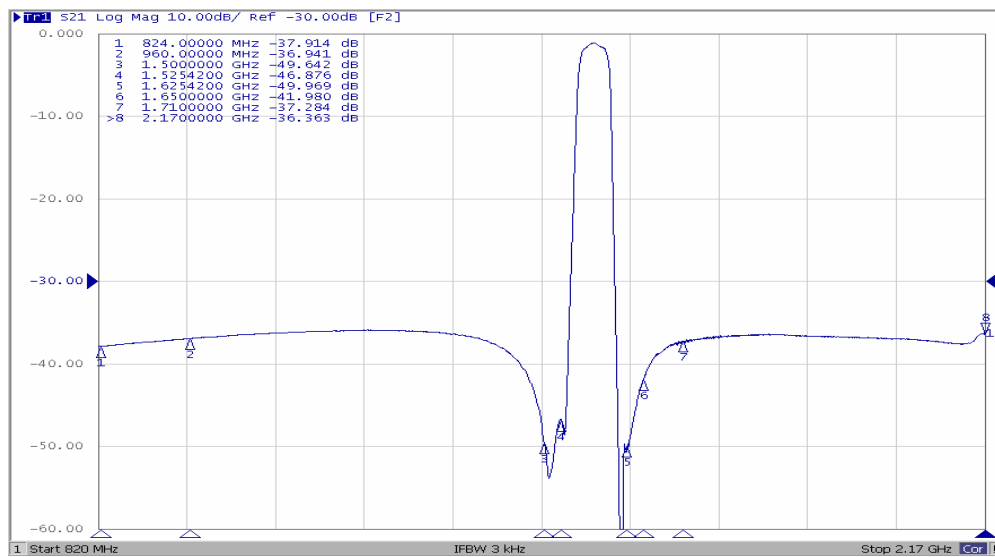
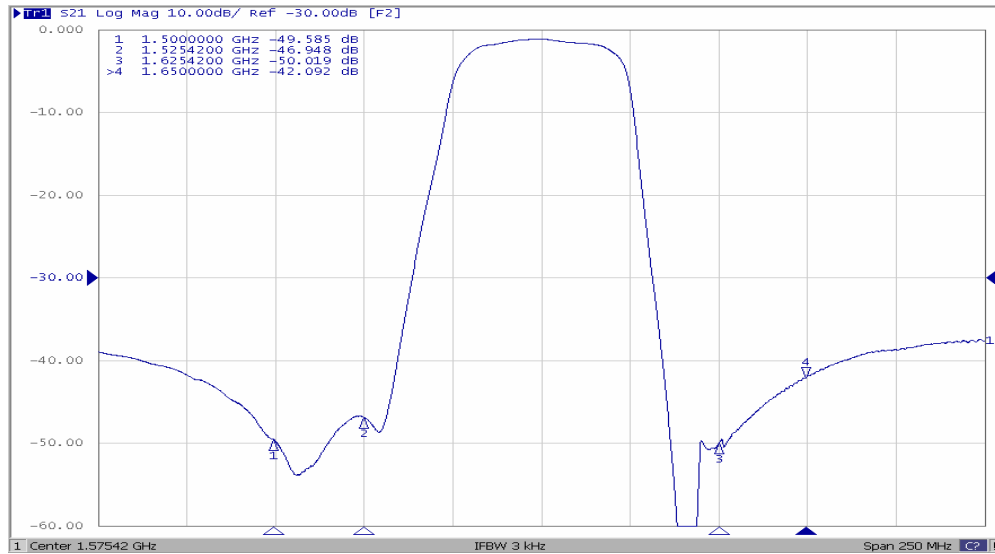
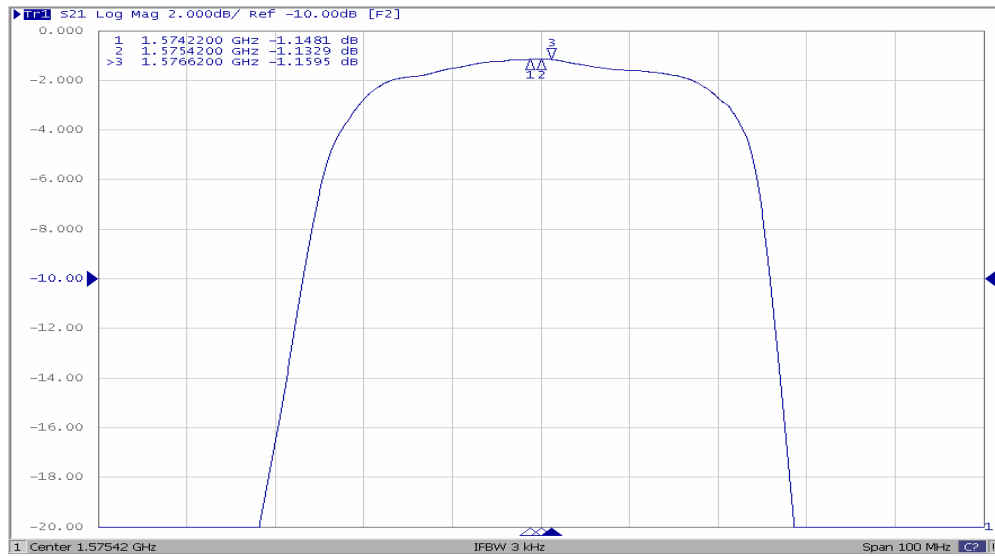
Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

E. PCB Footprint:



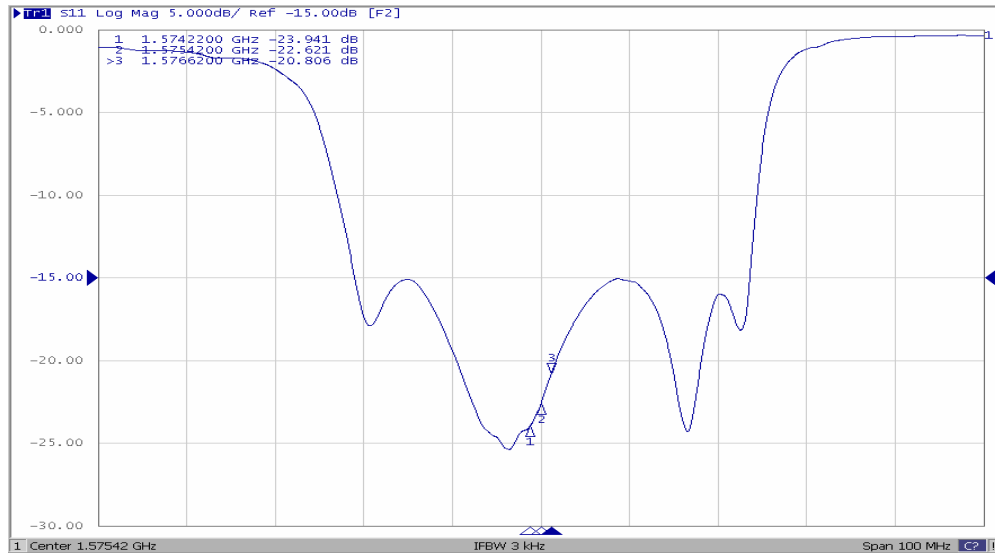
: Land Pattern
 Unit : mm

F. Frequency Characteristics:

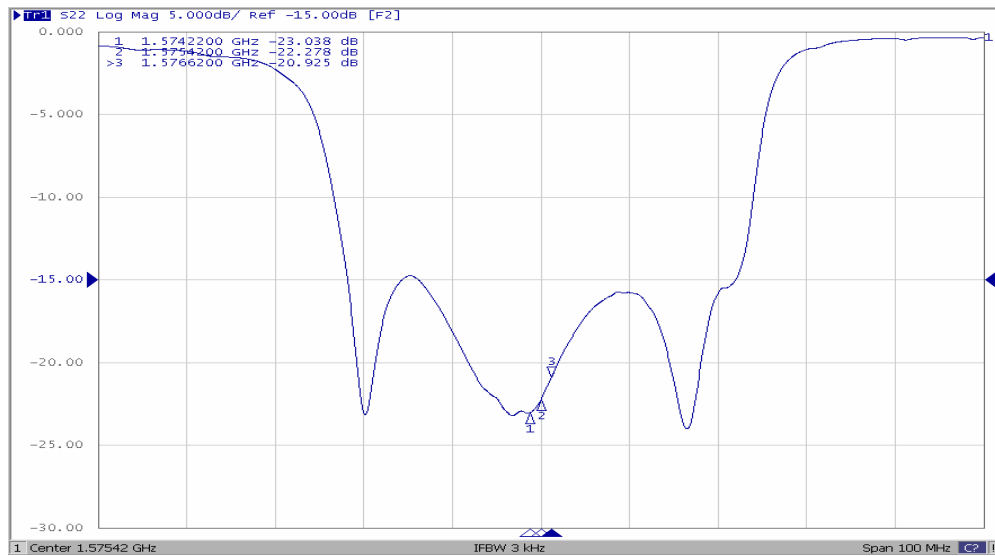


Reflection Functions:

S11



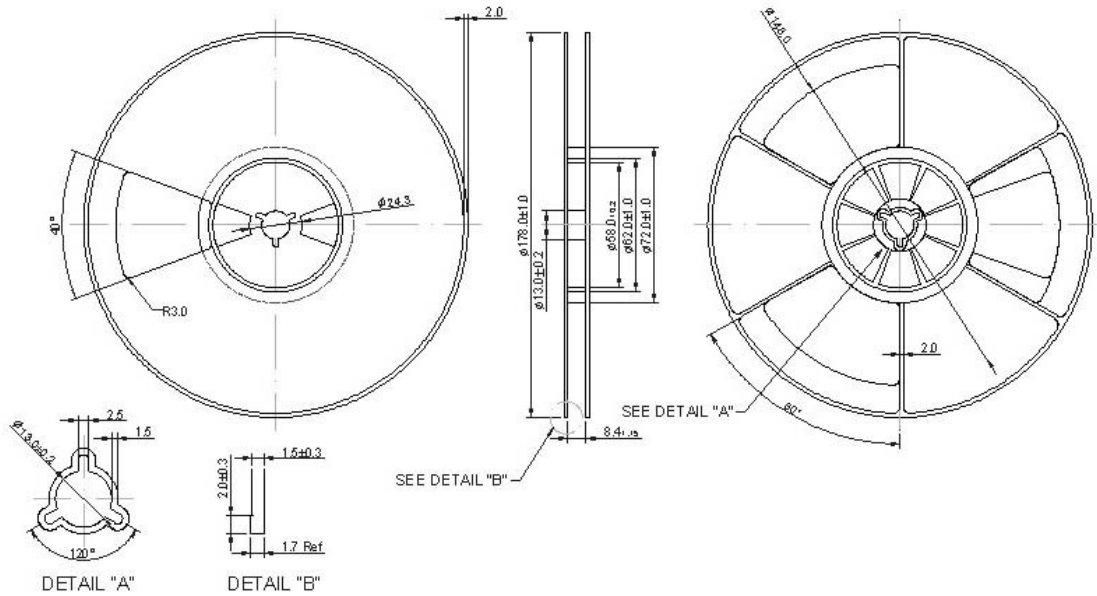
S22



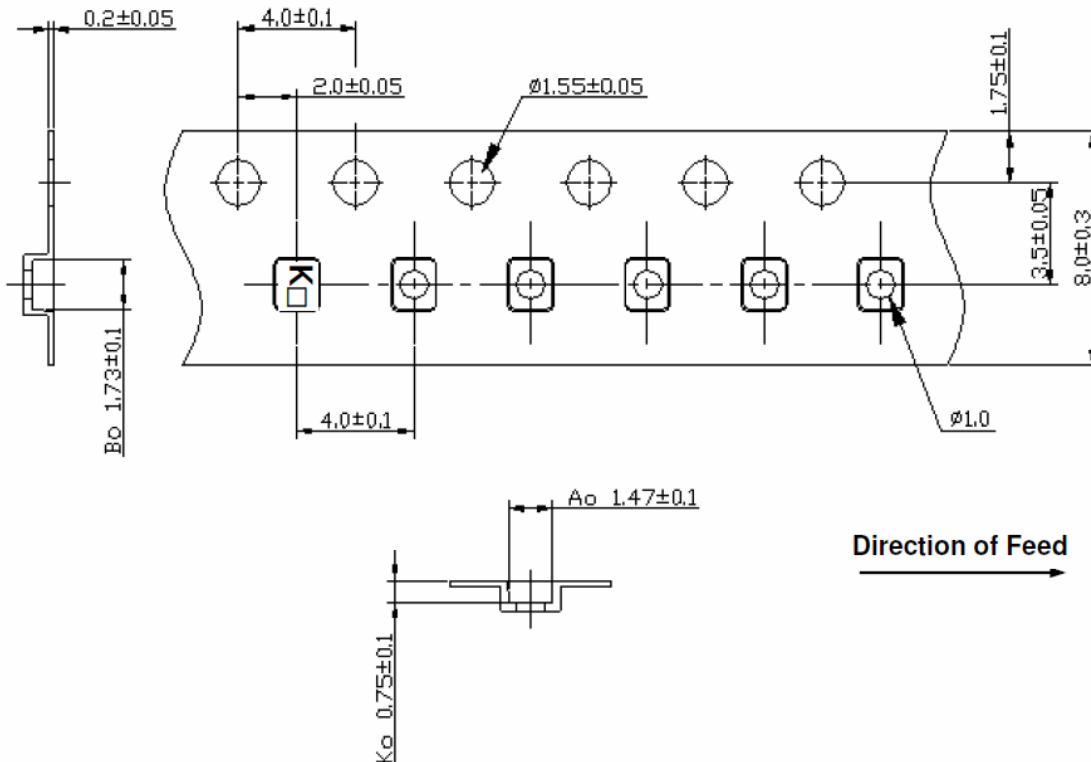
G. PACKING: (Ref. WI-75M03)

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. 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 260°C+0/-5°C peak (20~40sec).
4. Time: 2 times.

