



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

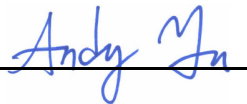
Product Description: SAW Filter 773 MHz Band 28 Rx SMD 1.4x1.1 mm (30MHz BW)

TST Part No.: TA2475A

Customer Part No.: _____

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

Checked by: _____ Anne Chen 

Approved by: _____ Andy Yu 

Date: _____ 2018, 12. 25

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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SAW Filter 773 MHz Band 28 Rx SMD 1.4X1.1 mm (30MHz BW)

MODEL NO.:TA2475A

REV.1

A. MAXIMUM RATING:

1. Input Power Level: 10 dB_m
2. DC voltage: 0 V
3. Operating temperature range: -30 °C to +85 °C
4. Storage temperature range: -40 °C to +85 °C
5. Moisture Sensitive Level: Level 1 (MSL 1)
6. ESD 100V(MM) 200V(HBM)

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

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

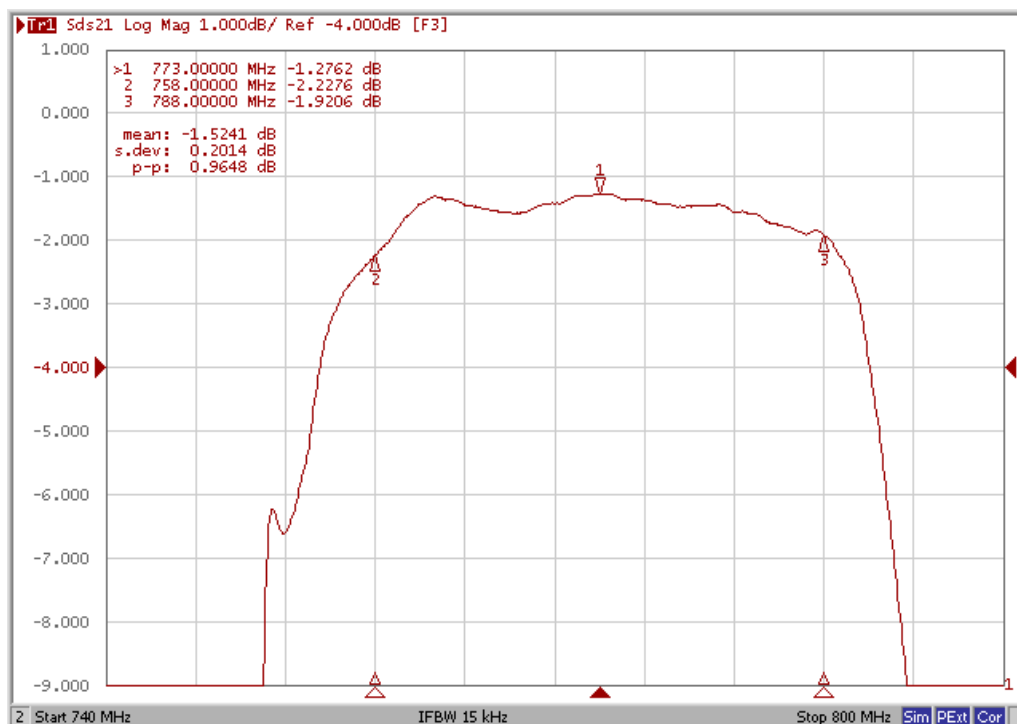
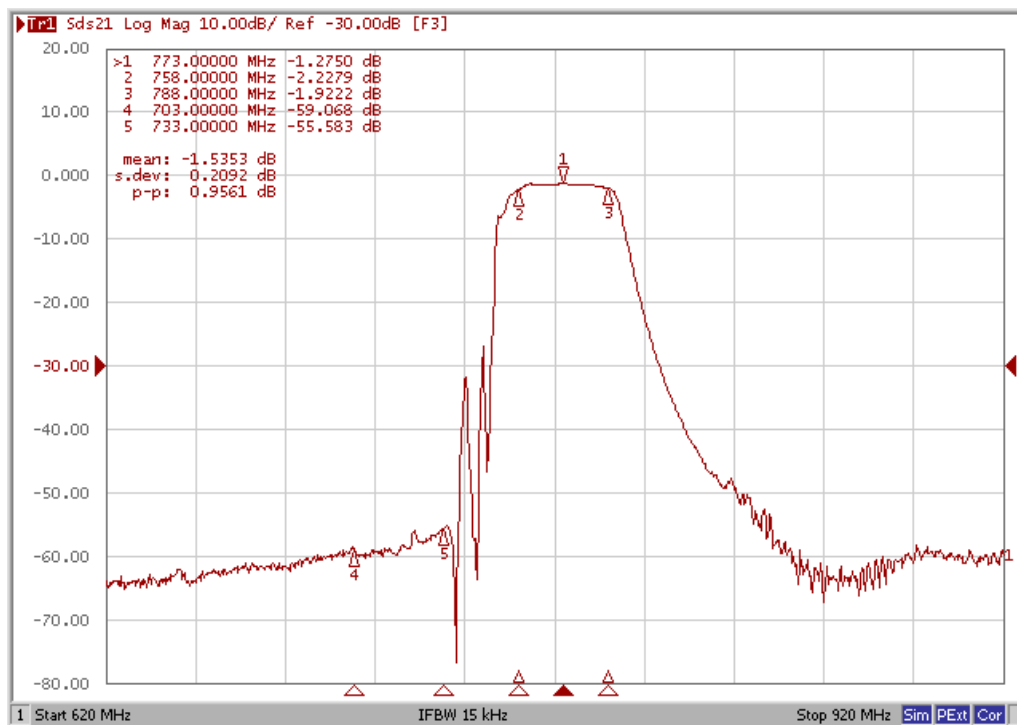
Load Impedance (balanced) : $Z_L = 100 \Omega$

Parameters Description	Unit	Min	Typ	Max
Center frequency Fc	MHz	-	773	-
Insertion Loss 758.0 ~ 788.0 MHz	dB	-	1.9	3.8
Amplitude ripple 758.0 ~ 788.0 MHz	dBp-p	-	0.9	2.2
V.S.W.R 758.0 ~ 788.0 MHz			2.0	2.5
Attenuation:				
703.0 ~ 733.0 MHz	dB	40	55	-

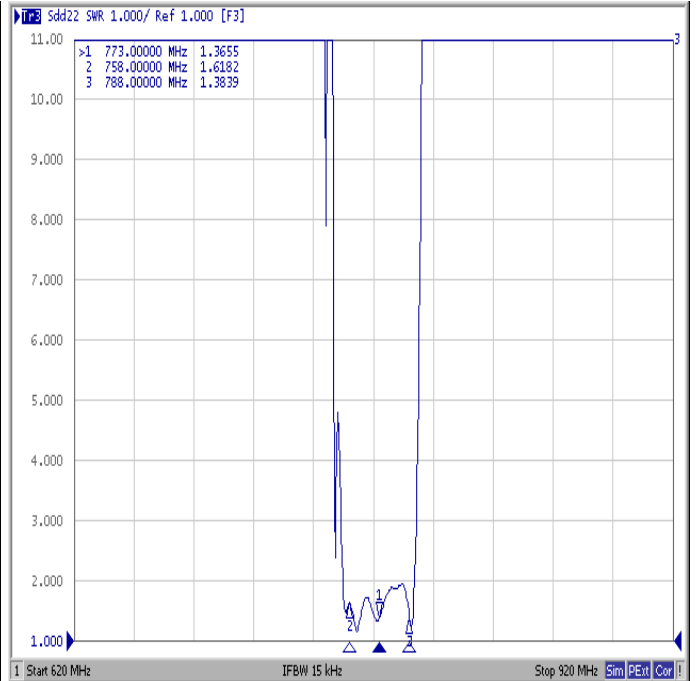
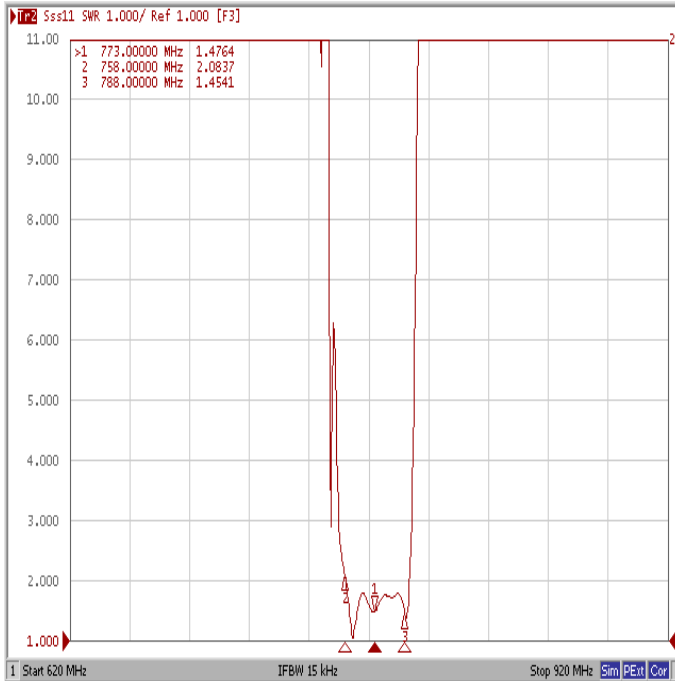
Notes : (1) With Matching Network .

C. FREQUENCY CHARACTERISTICS:

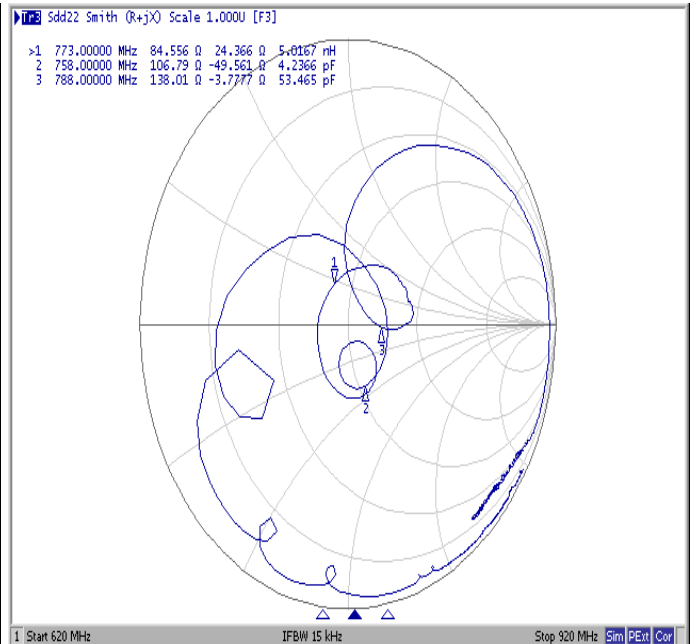
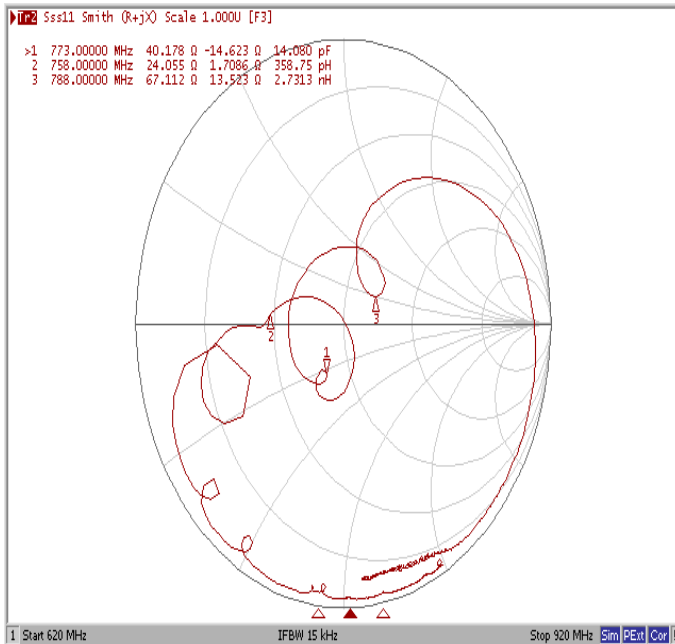
1. Frequency Response



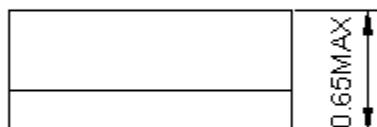
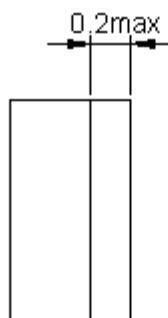
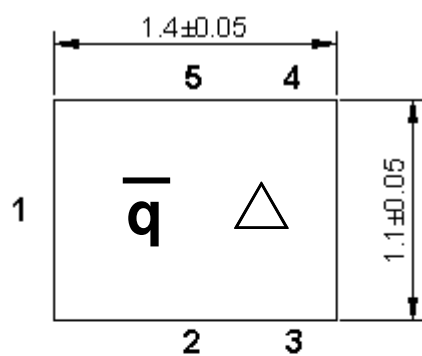
2. VSWR



3. Smith Chart



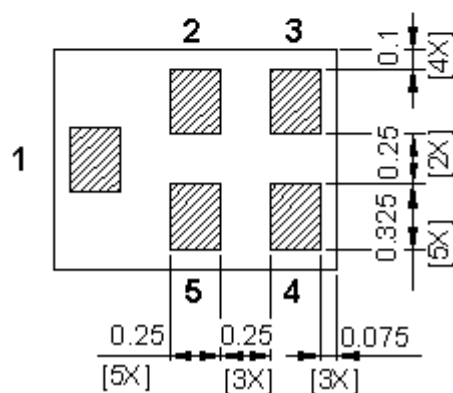
D. Outline Drawing :



All tolerances are ± 0.05 mm unless otherwise specified
Coplanarity : 0.1 mm max.

1 to 5 : Pin No.

Unit : mm



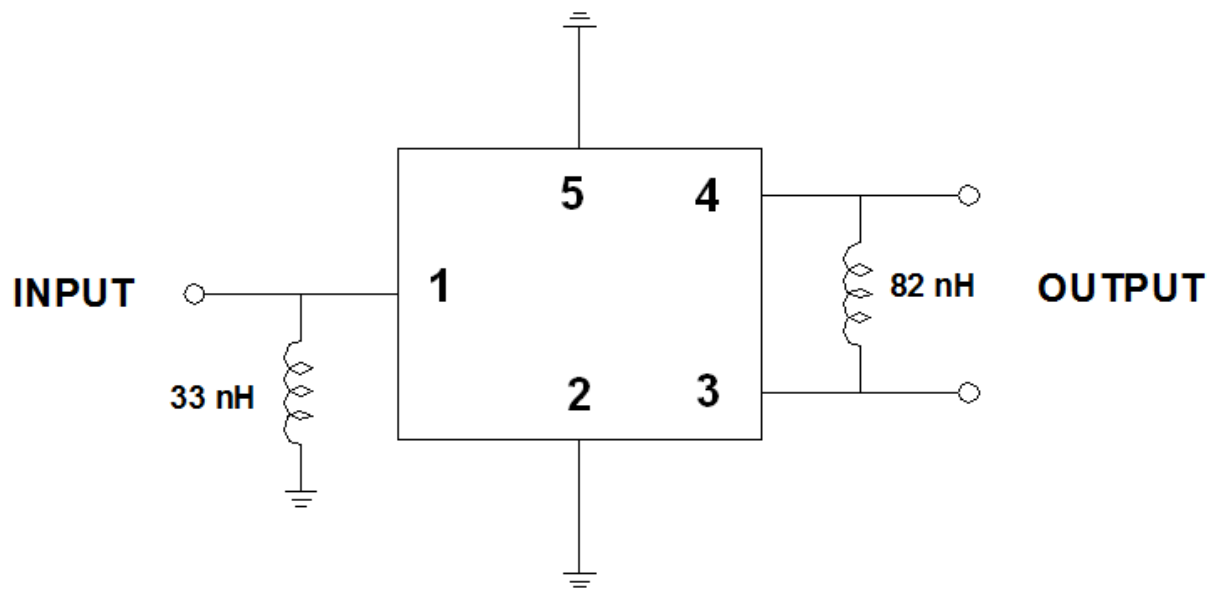
Pin Description	
1	Input
3,4	Balanced Output
2,5	Ground

Marking Descriptions	
$\overline{q}$	Series Number
$\triangle$	Date Code(Year+Month)

Date Code: (Follow the table)

Year	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2013	A	B	C	D	E	F	G	H	J	K	L	M
2014	N	P	Q	R	S	T	U	V	W	X	Y	Z
2015	a	b	c	d	e	f	g	h	j	k	l	m
2016	n	p	q	r	s	t	u	v	w	x	y	z
2017	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
2018	<u>N</u>	<u>P</u>	<u>Q</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>U</u>	<u>V</u>	<u>W</u>	<u>X</u>	<u>Y</u>	<u>Z</u>
2019	<u>a</u>	<u>b</u>	<u>c</u>	<u>d</u>	<u>e</u>	<u>f</u>	<u>g</u>	<u>h</u>	<u>j</u>	<u>k</u>	<u>l</u>	<u>m</u>
2020	<u>n</u>	<u>p</u>	<u>q</u>	<u>r</u>	<u>s</u>	<u>t</u>	<u>u</u>	<u>v</u>	<u>w</u>	<u>x</u>	<u>y</u>	<u>z</u>

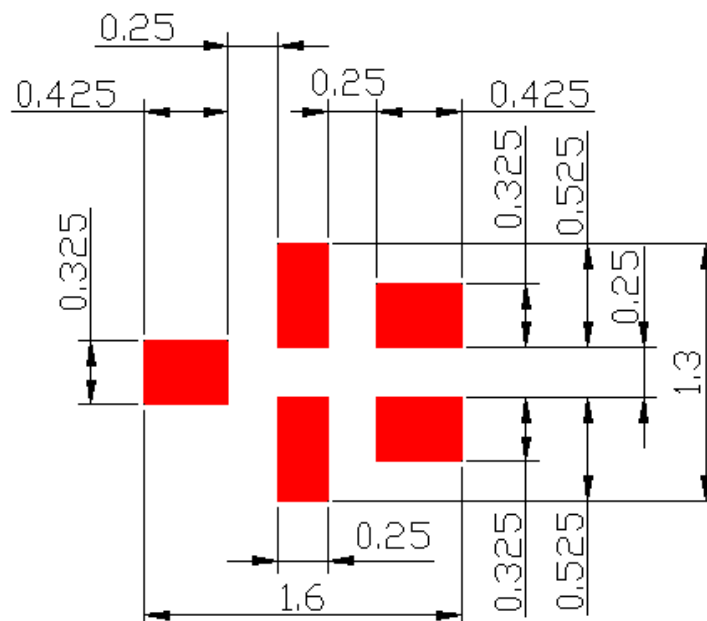
E. Matching Circuit :



Source Impedance: 50Ω

Load Impedance: 100Ω

PCB Footprint:



: Land Pattern

Unit : mm

1. REEL DIMENSION

Technical drawing of a circular mechanical part, showing three views: front, side, and top.

Front View (Left): Shows a circular flange with a central hub. The flange has a 4° chamfer and a radius R3.0. The central hub has a diameter of $\phi 74.3$.

Side View (Middle): Shows the flange thickness of 2.0. The central hub has a diameter of $\phi 178.0 \pm 0.0$. The flange has a diameter of $\phi 130.0 \pm 0.2$. The central hub has a diameter of $\phi 68.0 \pm 0.2$. The flange has a diameter of $\phi 67.0 \pm 0.1$. The central hub has a diameter of $\phi 72.0 \pm 0.0$.

Top View (Right): Shows a circular flange with a central hub. The flange has a thickness of 2.0 and a 60° angle. The central hub has a diameter of $\phi 146.0$.

DETAIL "A" (Bottom Left): Shows a cross-section of the central hub with a diameter of $\phi 130.0 \pm 0.2$ and a thickness of 2.5. The flange has a thickness of 1.6 and a 120° angle.

DETAIL "B" (Bottom Middle): Shows a cross-section of the flange with a thickness of 2.0 and a diameter of $\phi 130.0 \pm 0.2$. The flange has a thickness of 1.6 and a 1.7 Ref. dimension.

Technical drawing of a mechanical part, showing a top view and two side views. The part is a rectangular plate with rounded ends, featuring a central horizontal slot and six circular holes arranged in two rows of three. The dimensions and tolerances are as follows:

- Top View:**
 - Overall width: 8.0 ± 0.3
 - Distance from top edge to center line: 3.5 ± 0.05
 - Distance from center line to bottom edge: 1.75 ± 0.1
 - Distance between center lines of adjacent holes: 4.0 ± 0.1
 - Distance from left edge to center line of first hole: 2.0 ± 0.05
 - Distance from right edge to center line of last hole: 2.0 ± 0.05
 - Radius of rounded ends: $R0.2 \pm 0.05$
 - Radius of circular holes: $\phi 1.55 \pm 0.05$
 - Radius of circular holes in the bottom row: $\phi 1.0$
- Left Side View:**
 - Overall height: 1.73 ± 0.1
 - Distance from top edge to center line: 0.2 ± 0.05
- Right Side View:**
 - Overall height: 1.47 ± 0.1
 - Distance from top edge to center line: 0.75 ± 0.1

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.

