



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.

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Product Specifications Approval Sheet

Issued Date:

Product Name: SAW Filter 923 MHz (BW 5.8MHz) SMD 1.4X1.1 mm

TST Parts No.: TA1780A

Customer Parts No.: _____

Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Michael Yang 

Approval by: _____ Bob Chau 

Date: _____ 2014/9/18

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 925.2MHz

MODEL NO.:TA1780A

REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 13 dBm
2. DC Voltage : 0V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

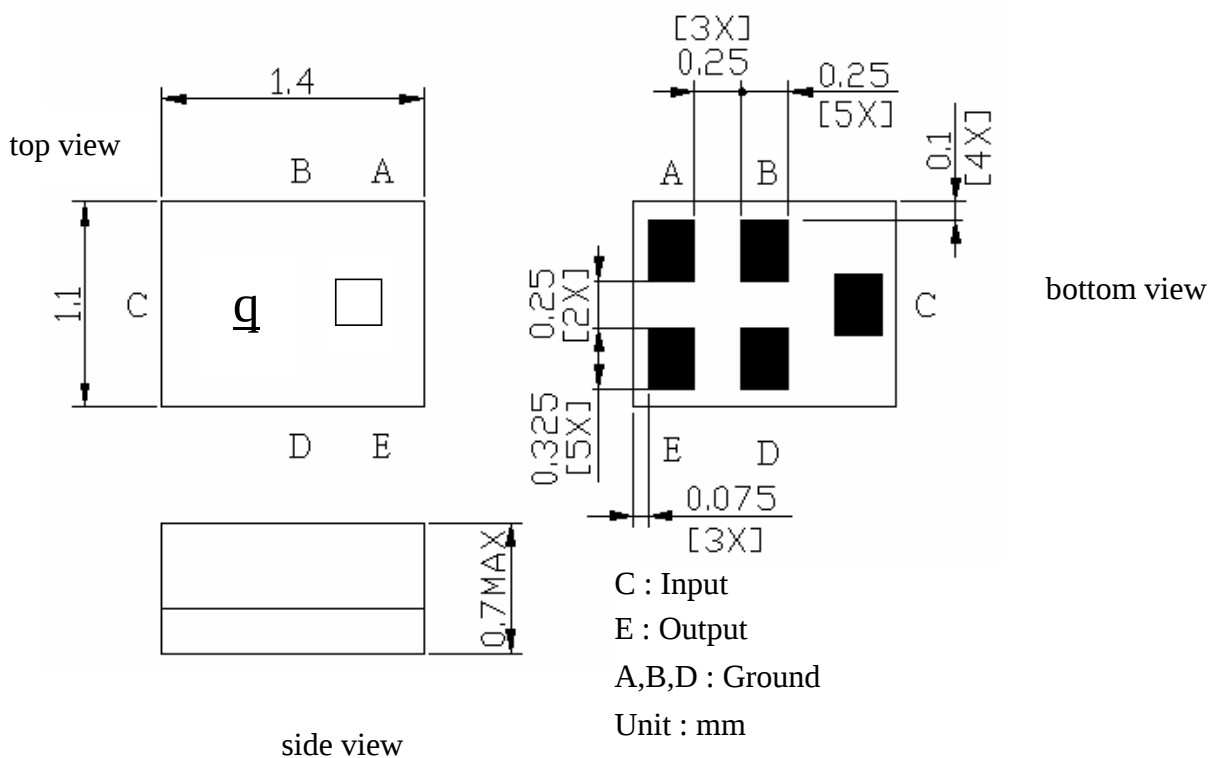
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance (single) : $Z_s = 50 \Omega$

Terminating load impedance(single) : $Z_L = 50 \Omega$

Item	Unit	Min	Type.	Max
Center Frequency Fc	MHz	-	923	-
Insertion Loss (920.1~925.9 MHz) IL	dB		2.5	3.0max
Amplitude ripple(920.1~925.9 MHz)	dB		0.6	1.2max
VSWR			1.4	2.0
Input(920.1~925.9 MHz)			1.4	2.0
Ouput(920.1~925.9 MHz)				
Attenuation				
10 ~ 813 MHz	dB	40	45	
813 ~ 873 MHz	dB	35	40	
873 ~ 903 MHz	dB	20	25	
903 ~ 905 MHz	dB	15	20	
945 ~ 950 MHz	dB	20	25	
950 ~ 1150 MHz	dB	25	30	
1150 ~ 1856 MHz	dB	30	35	
1856 ~ 2500 MHz	dB	26	30	
Package size	mm	SMD 1411		

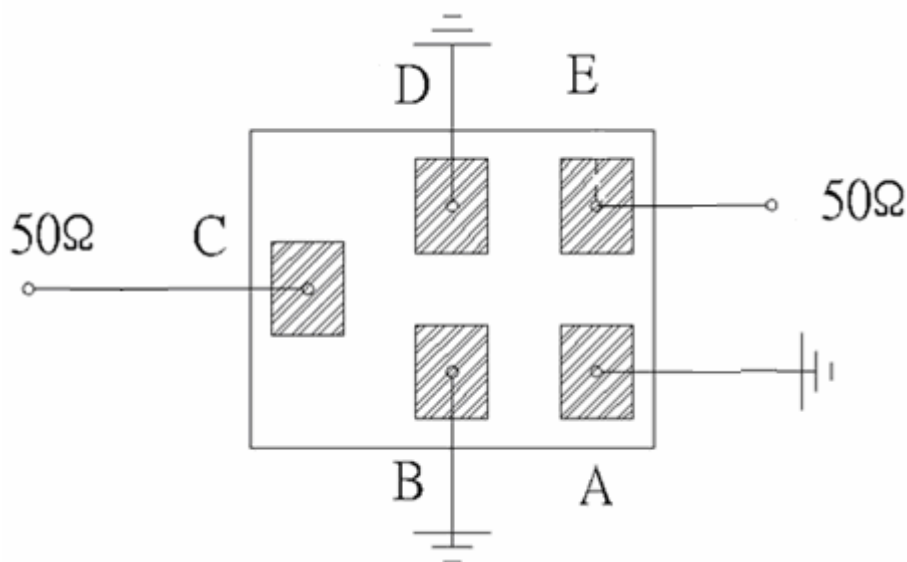
C.OUTLINE DRAWING:



□ : Year/Month Code (Follow the table)

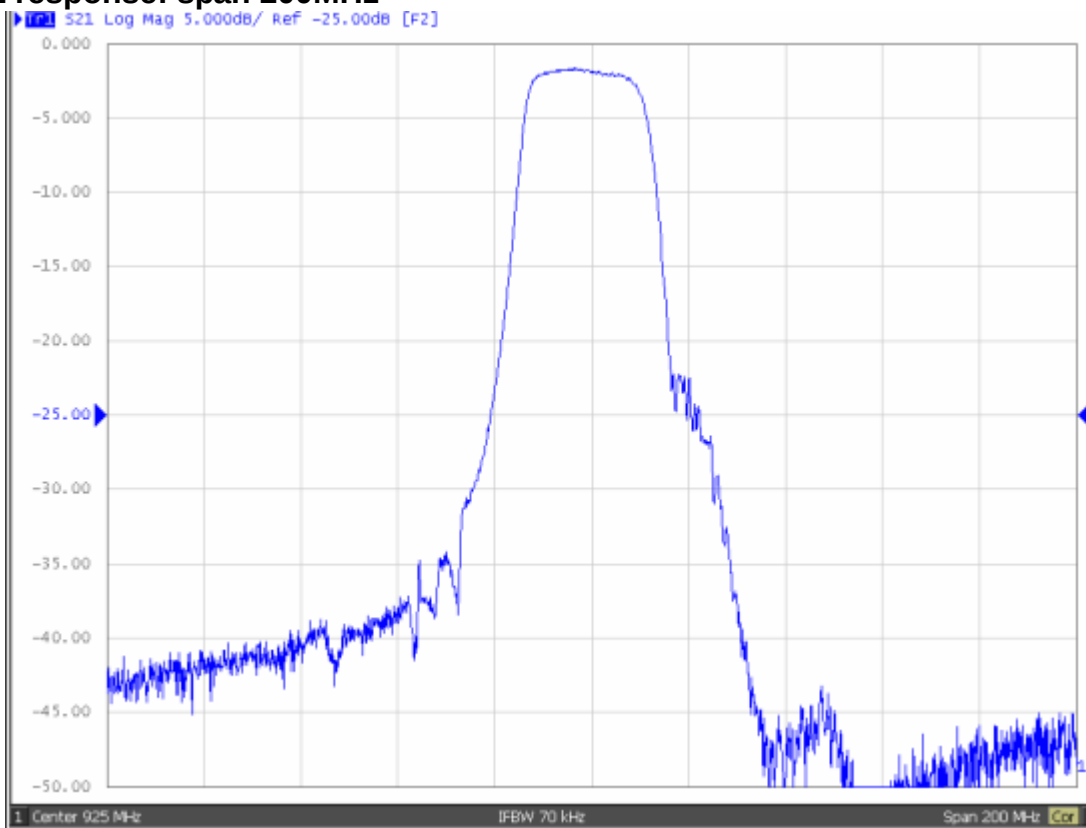
YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2013	A	B	C	D	E	F	G	H	J	K	L	M
2014	N	P	Q	R	S	T	U	V	W	X	Y	Z
2015	a	b	c	d	e	f	g	h	j	k	l	m
2016	n	p	q	r	s	t	u	v	w	x	y	z
2017	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
2018	<u>N</u>	<u>P</u>	<u>Q</u>	<u>R</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>i</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>

D. MEASUREMENT CIRCUIT:

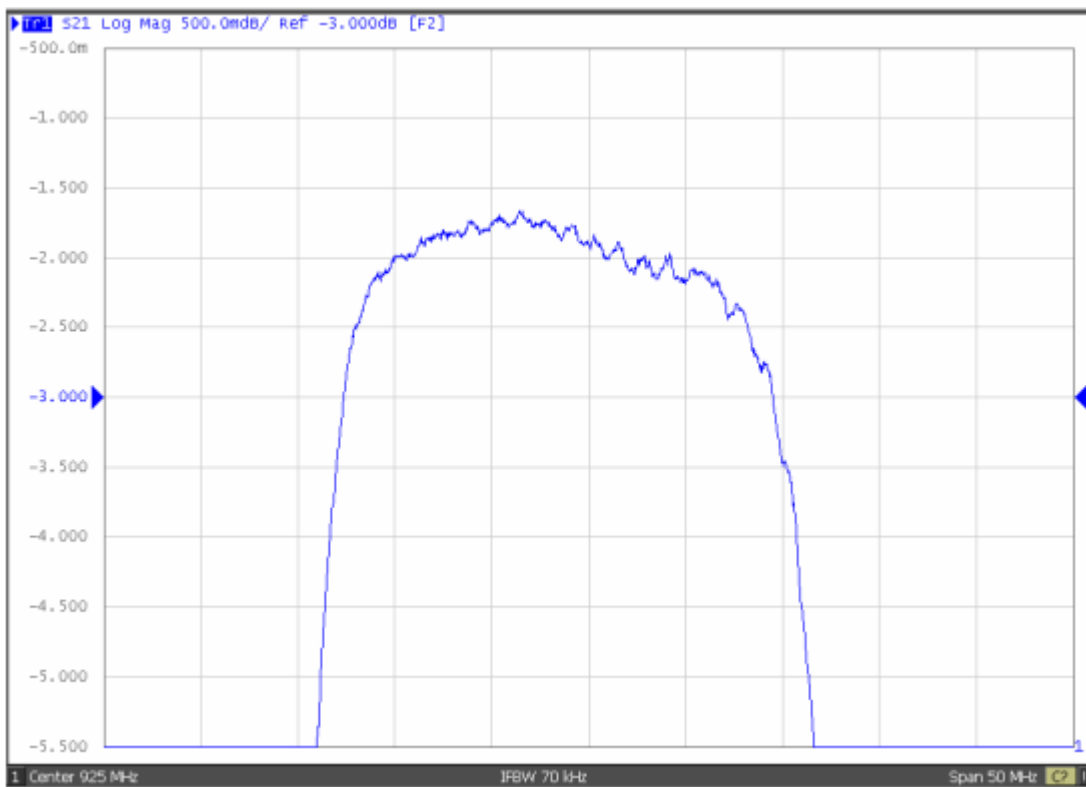


D. Frequency Characteristics :

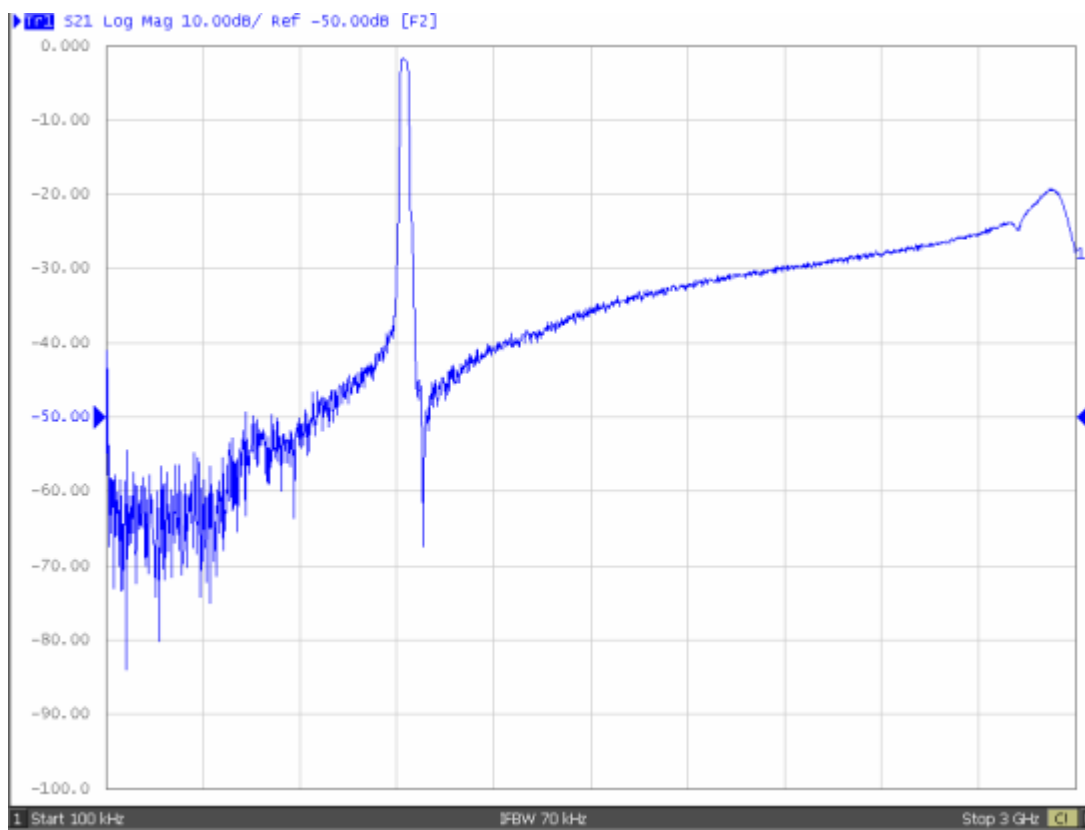
S21 response: span 200MHz



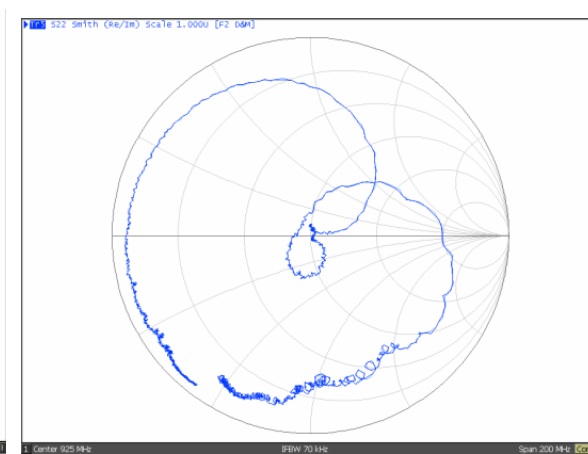
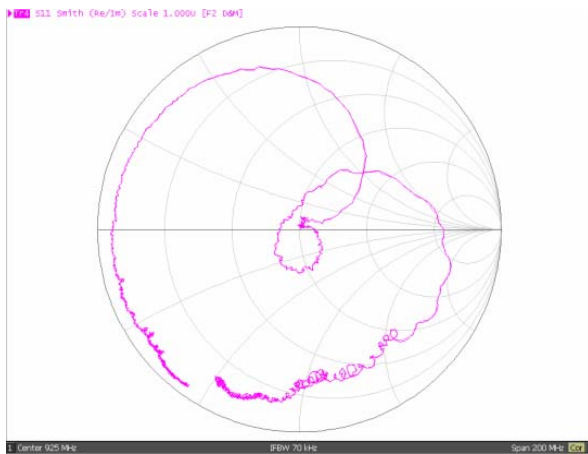
S21 response: span 50MHz



S21 response: span 3GHz



S11/S22



1. REEL DIMENSION

Technical drawing of a circular mechanical component, showing three views: front view, side view, and top view, along with two detail views (DETAIL "A" and DETAIL "B").

Front View: Shows a circular flange with a central hub. Dimensions include a 40° angle, R3.0, and Ø26.3.

Side View: Shows a cross-section of the component. Dimensions include a total height of 2.0, an outer diameter of Ø178.0±1.0, an inner diameter of Ø13.0±0.2, and a central hole diameter of Ø68.0±0.2. A reference dimension of 8.4 is also shown.

Top View: Shows a circular flange with a central hub. Dimensions include a 60° angle, Ø148.0, and 2.0. A reference to "SEE DETAIL 'A'" is present.

DETAIL "A": A detailed view of the central hub. Dimensions include 2.6, 1.5, 1.7, and 120°.

DETAIL "B": A detailed view of the central hub. Dimensions include 2.0±0.3, 1.5±0.3, and 1.7 Ref.

Technical drawing of a multi-hole punch die. The drawing includes a side view and a top view. The side view shows a rectangular block with a central hole of diameter $\phi 1.55 \pm 0.05$ and a smaller hole of diameter $\phi 1.0$. The top view shows a rectangular block with a central hole of diameter $\phi 1.55 \pm 0.05$ and a smaller hole of diameter $\phi 1.0$. The dimensions and tolerances are as follows:

- Overall width: 8.0 ± 0.3
- Overall height: 1.75 ± 0.1
- Distance from top edge to center of hole: 4.0 ± 0.1
- Distance from center of hole to bottom edge: 4.0 ± 0.1
- Distance from left edge to center of hole: 2.0 ± 0.05
- Distance from center of hole to right edge: 2.0 ± 0.05
- Distance from left edge to center of hole: 0.2 ± 0.05
- Distance from center of hole to right edge: 0.2 ± 0.05
- Distance from top edge to center of hole: 1.73 ± 0.1
- Distance from center of hole to bottom edge: 1.47 ± 0.1
- Distance from left edge to center of hole: 0.75 ± 0.1
- Distance from center of hole to right edge: 0.75 ± 0.1

G. RECOMMENDED REFLOW PROFILE :

