

TAI-SAW TECHNOLOGY CO., LTD.

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

Issued Date:

Product Name: SAW Filter 1583 MHz (BW 46.79MHz) SMD 1.4X1.1 mm

TST Parts No.: TA1343A

Customer Parts No.: _____

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

Checked by: _____ Michael Yang *Michael*

Approval by: _____ Francis Chen *Francis*

Date: _____ 2013/03/11

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 1583MHz

MODEL NO.:TA1343A

REV. NO.:2.0

A. MAXIMUM RATING:

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

RoHS Compliant
Lead free
Lead-free soldering

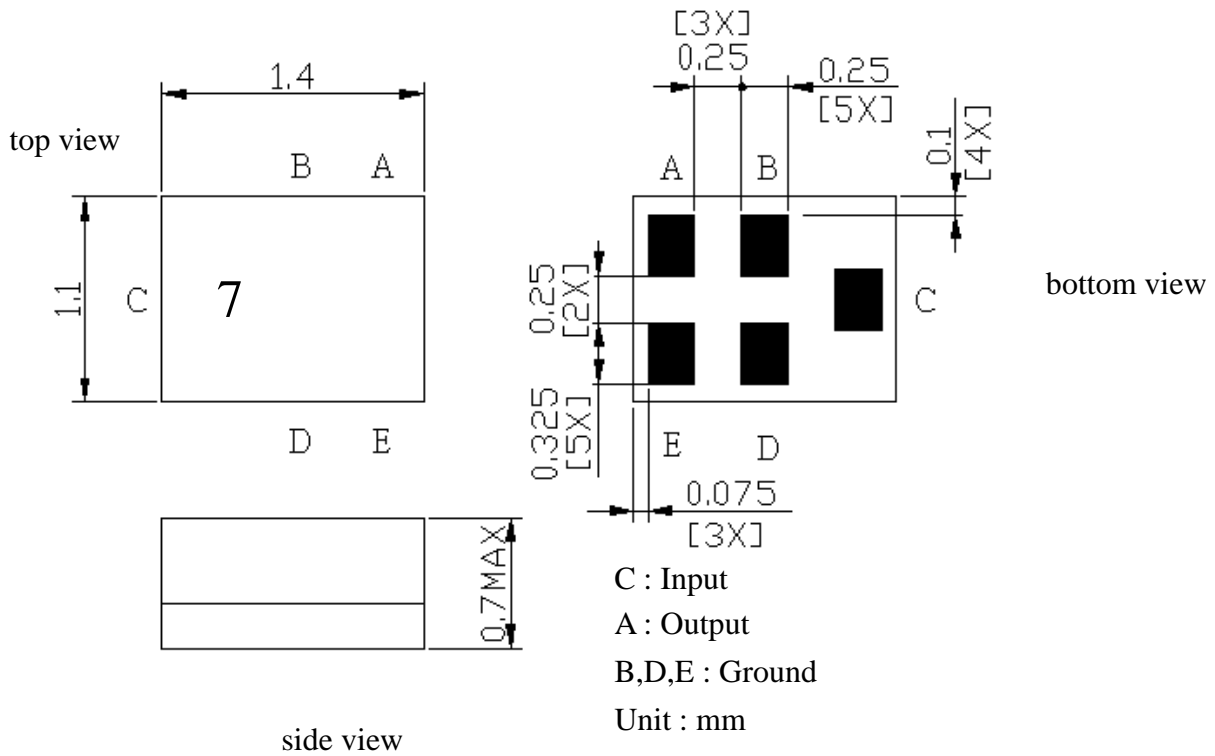
B. ELECTRICAL CHARACTERISTICS:

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

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

Item	Unit	25±2	Type.	-40 ~ +85
Center Frequency Fc	MHz	-	1583	-
Insertion Loss (1559.1~1563.1 MHz) IL	dB	1.9max	1.8	2.1max
Insertion Loss (1573.42~1577.42 MHz) IL	dB	1.3max	1.2	1.5max
Insertion Loss (1597.55~1605.89 MHz) IL	dB	1.6max	1.5	2.1max
VSWR (1559.1~1563.1 MHz)		1.5max	1.4	1.8max
VSWR (1573.42~1577.42 MHz)		1.7max	1.6	1.9max
VSWR (1597.55~1605.89 MHz)		1.7max	1.6	1.9max
Amplitude ripple (1559.1~1563.1 MHz)	dB	0.6max	0.5	0.8max
(1573.42~1577.42 MHz)	dB	0.3max	0.2	0.5max
(1597.55~1605.89 MHz)	dB	0.5max	0.3	0.6max
Attenuation				
10 ~ 824 MHz	dB	25min	30	25min
824 ~ 925 MHz	dB	25min	30	25min
1427 ~ 1463 MHz	dB	30min	35	30min
1710 ~ 1785 MHz	dB	25min	30	25min
1850 ~ 1980 MHz	dB	26min	30	26min
2400 ~ 2570 MHz	dB	30min	33	30min
2570 ~ 3000 MHz	dB	35min	38	35min
Package size	mm	SMD 1.4x1.1		

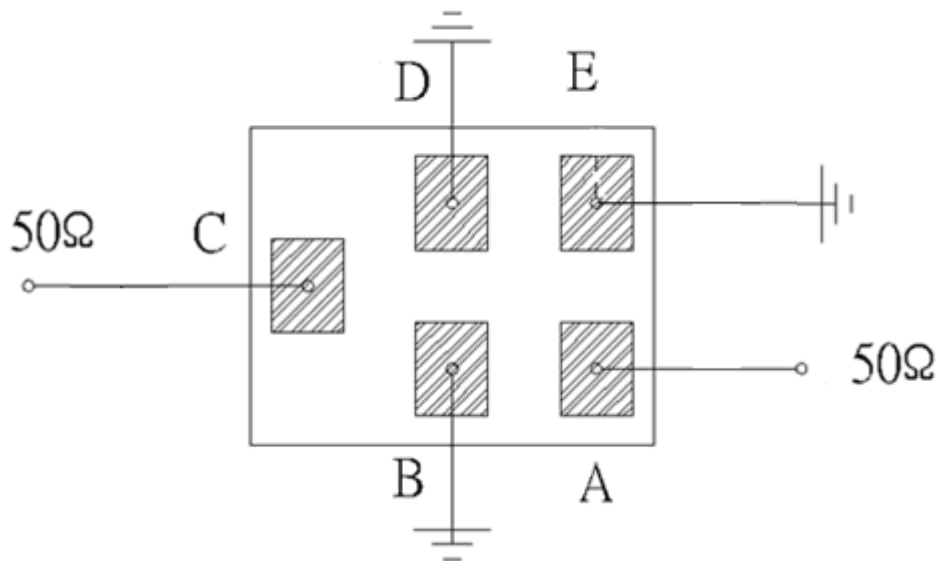
C.OUTLINE DRAWING:



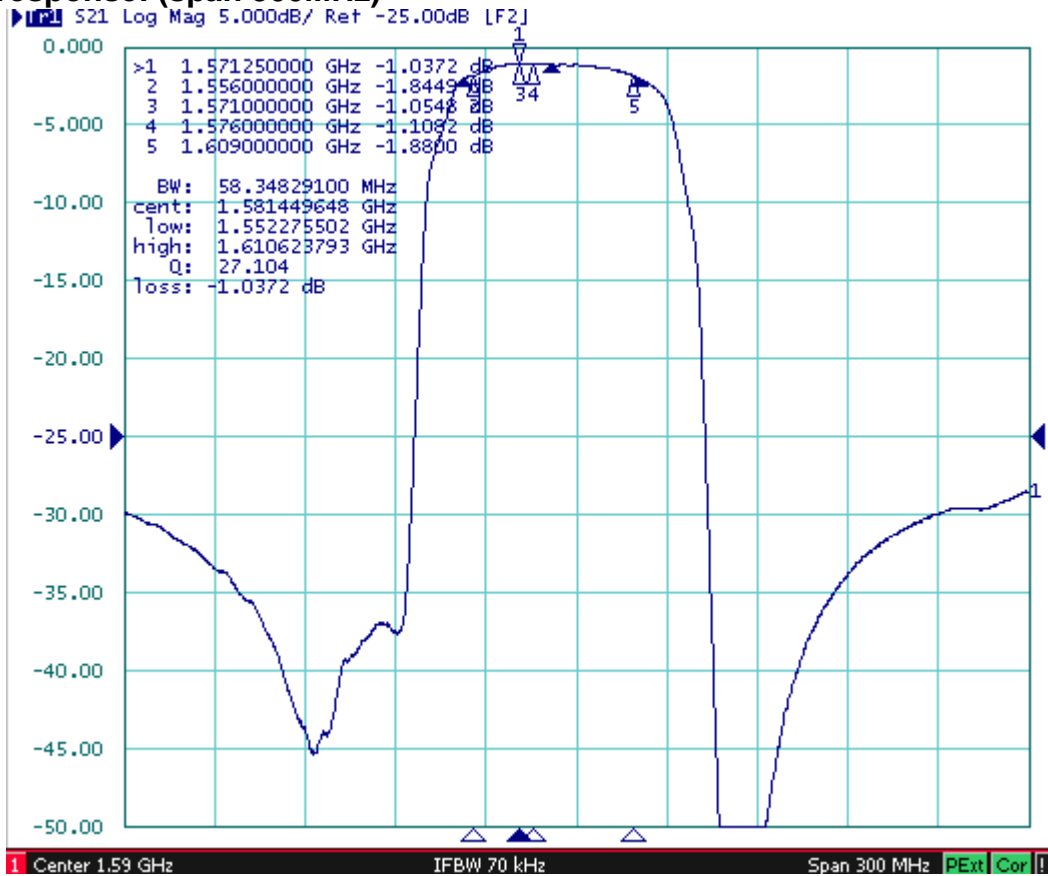
: Year/Month Code (Follow the table)

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>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>

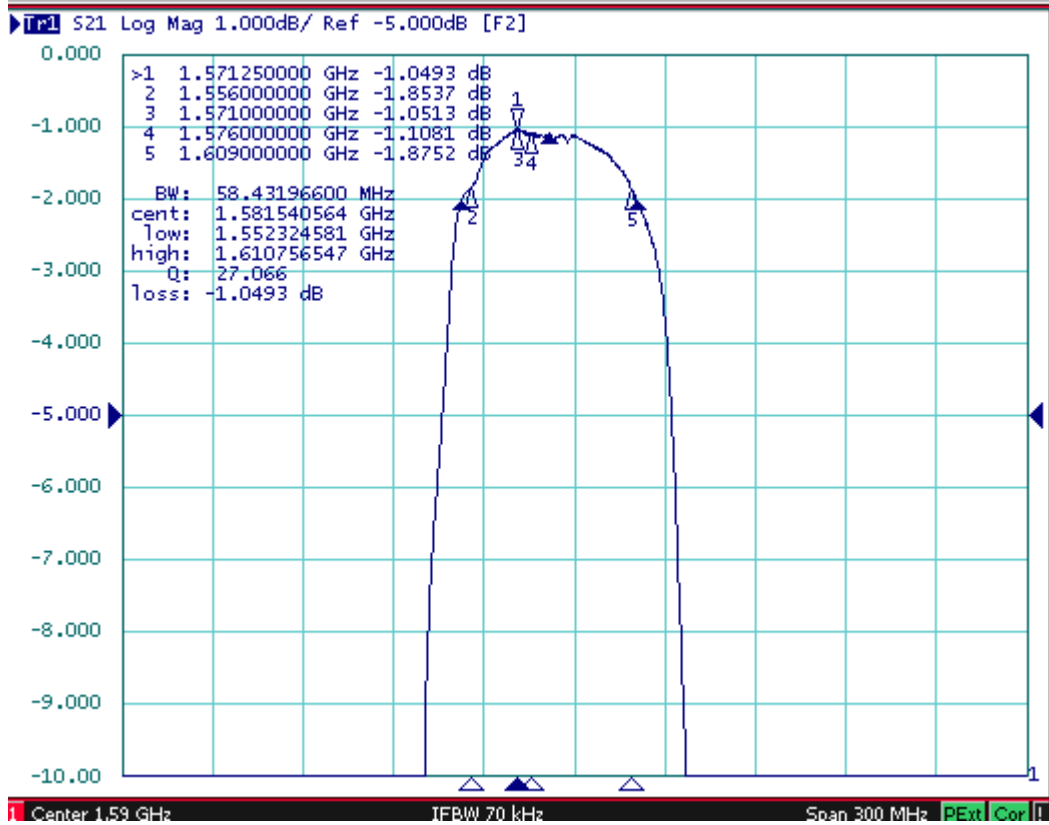
D. MEASUREMENT CIRCUIT:



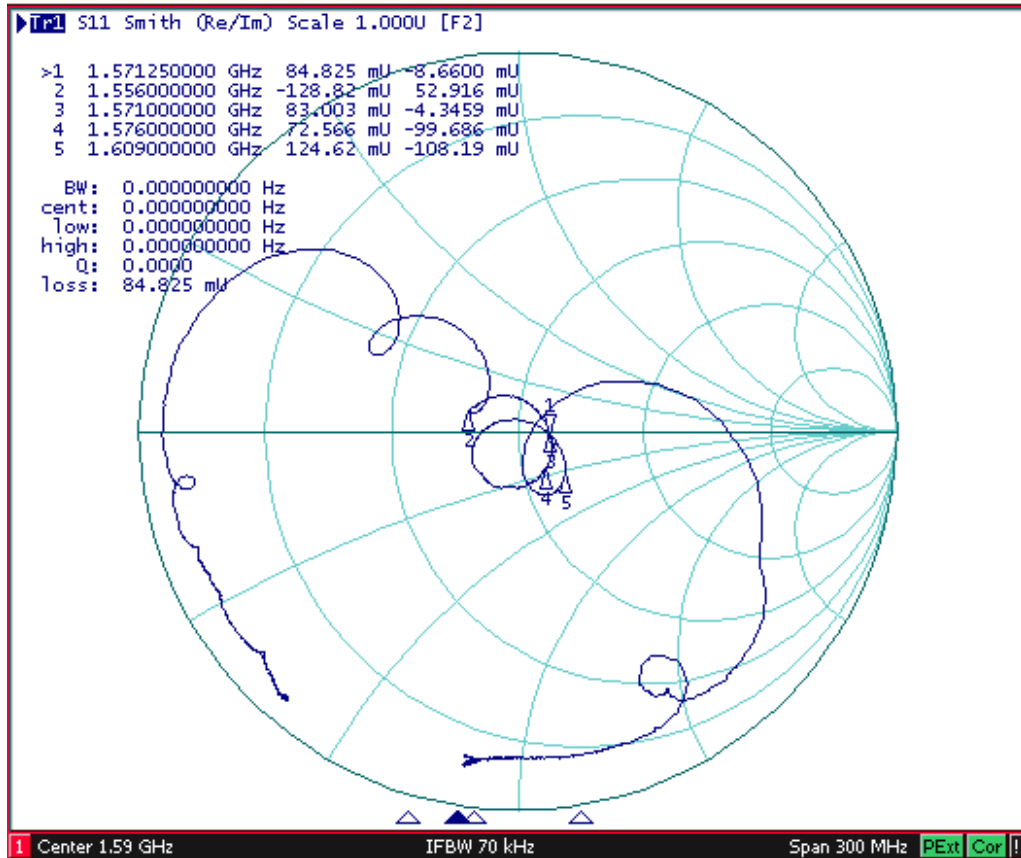
E. Frequency Characteristics :
S21 response: (span 300MHz)



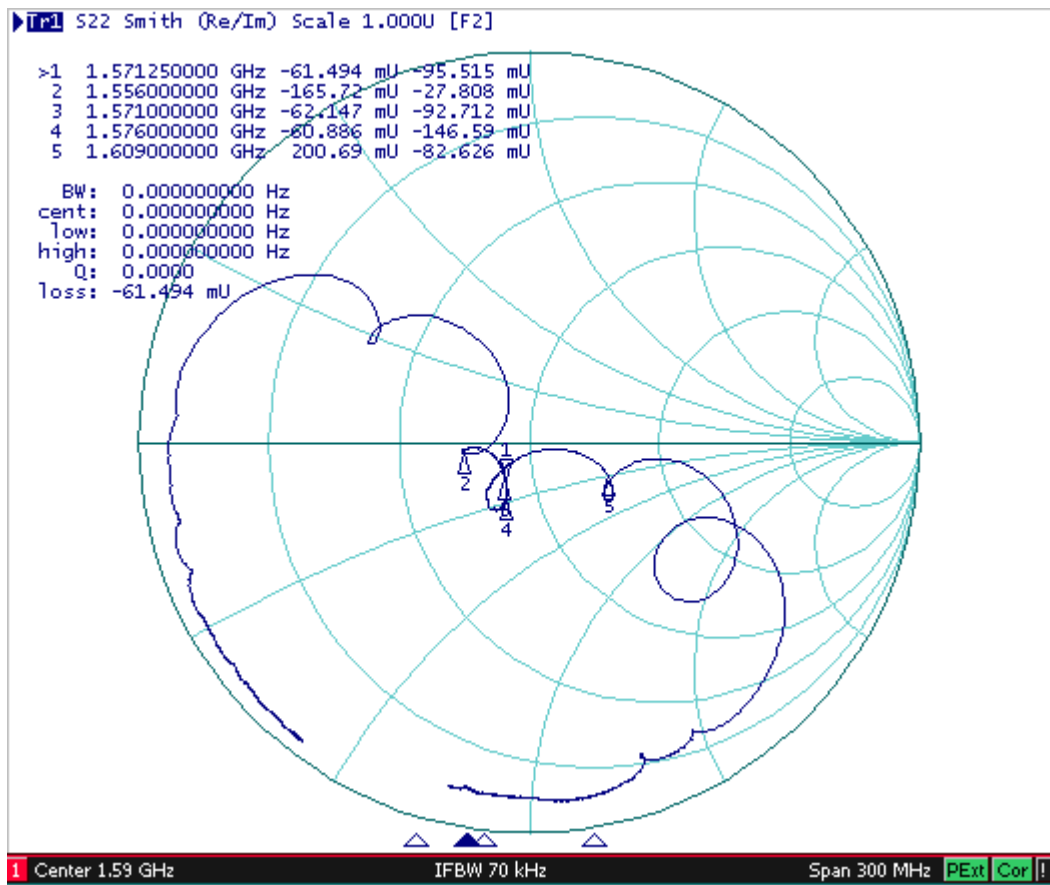
S21 response: (span 300MHz)



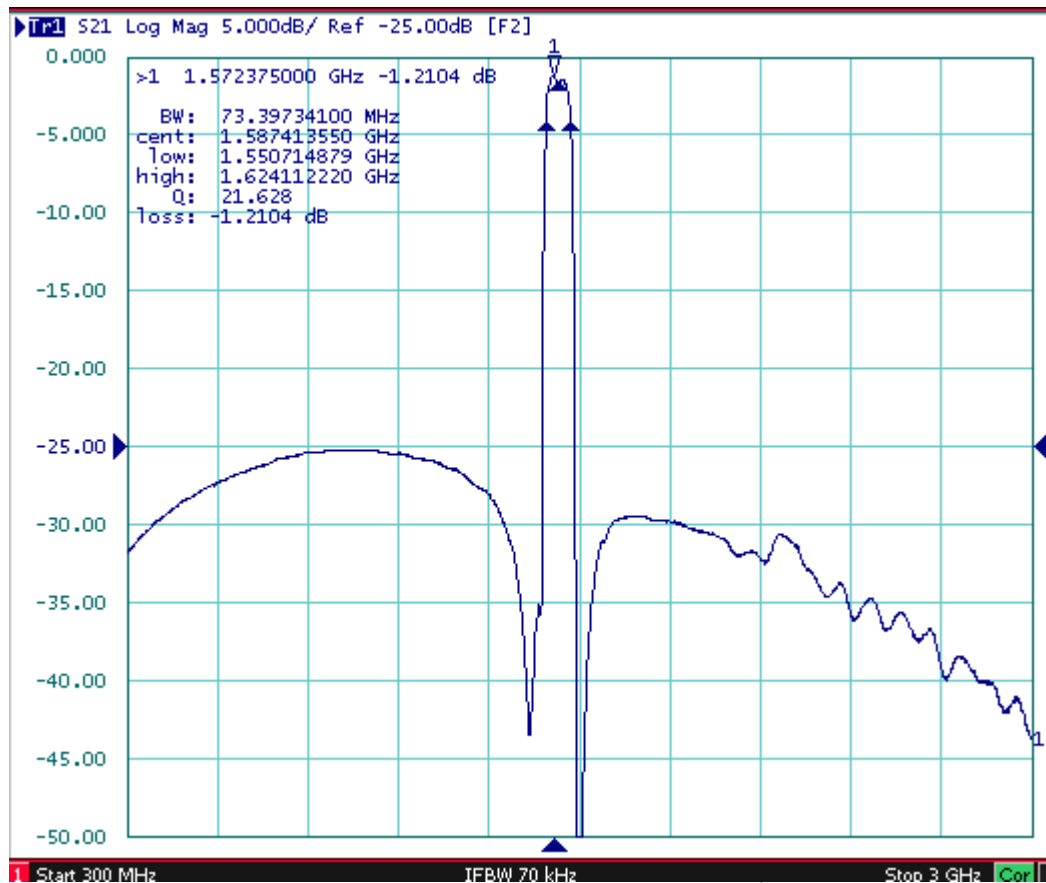
S11 response :



S22 response :



S21 response: (span 3GHz)



G. RECOMMENDED REFLOW PROFILE :

