



TAI-SAW TECHNOLOGY CO., LTD.

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

Product Description: SAW Filter 1600 MHz (BW57MHz) SMD 1.4X1.1 mm

TST Part No.: TA2023A

Customer Part No.:

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Sam Lin *Sam Lin*

Approval by: _____ Andy Yu *Andy Yu*

Date: _____ 2020/04/10

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 1600 MHz (BW57MHz) SMD 1.4X1.1 mm

MODEL NO.:TA2023A

REV. NO.:2.0

A. MAXIMUM RATING:

1. Input Power Level: 20 dBm
2. DC Voltage : 5V
3. Operating Temperature: -40℃ to +85℃
4. Storage Temperature: -40℃ to +85℃
5. Moisture Sensitive Level: MSL Level 3

RoHS Compliant
Lead-free soldering

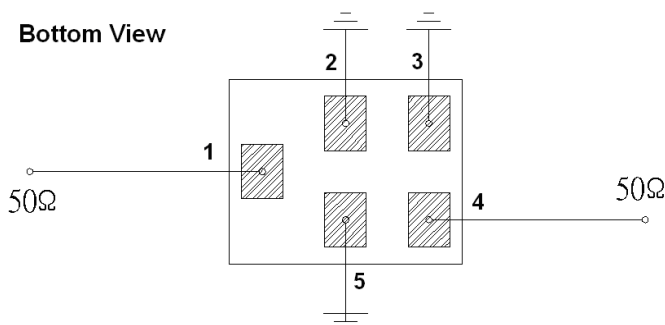
Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

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

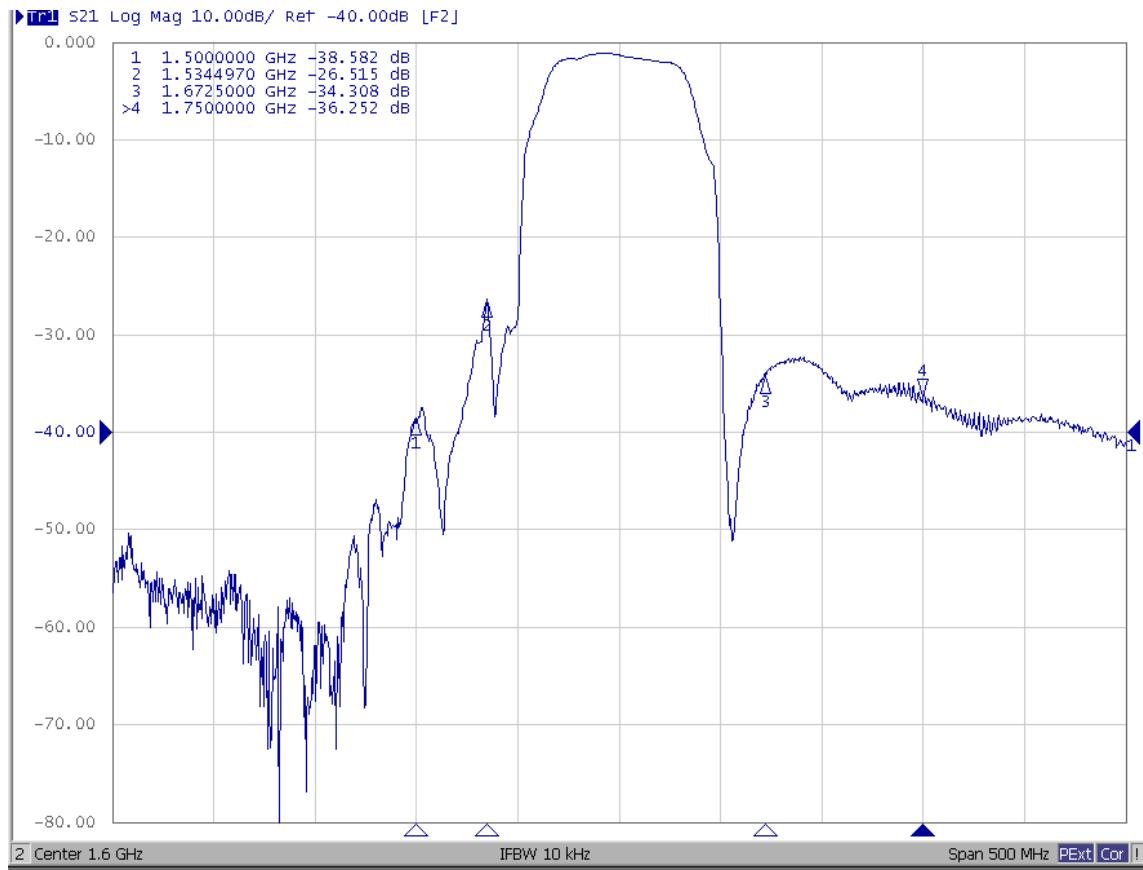
Item	Unit	Min	Type.	Max
Center Frequency	MHz	-	1600	-
Insertion Loss (1571.5 ~ 1628.5 MHz)	dB	-	2.2	2.5
VSWR (1571.5 ~ 1628.5 MHz)	-	-	2.2	2.5
Amplitude ripple (1571.5 ~ 1628.5 MHz)	dB	-	1.3	1.8
Attenuation				
10 ~ 1300 MHz	dB	40	46	-
1300 ~ 1500 MHz	dB	30	38	-
1500 ~ 1537.5 MHz	dB	23	26	-
1662.5 ~ 1672.5 MHz	dB	30	34	-
1672.5 ~ 1850 MHz	dB	30	32	-
1850 ~ 2000 MHz	dB	35	40	-
2000 ~ 2500 MHz	dB	30	40	-
Package size	mm	1411		

C. TEST CIRCUIT:

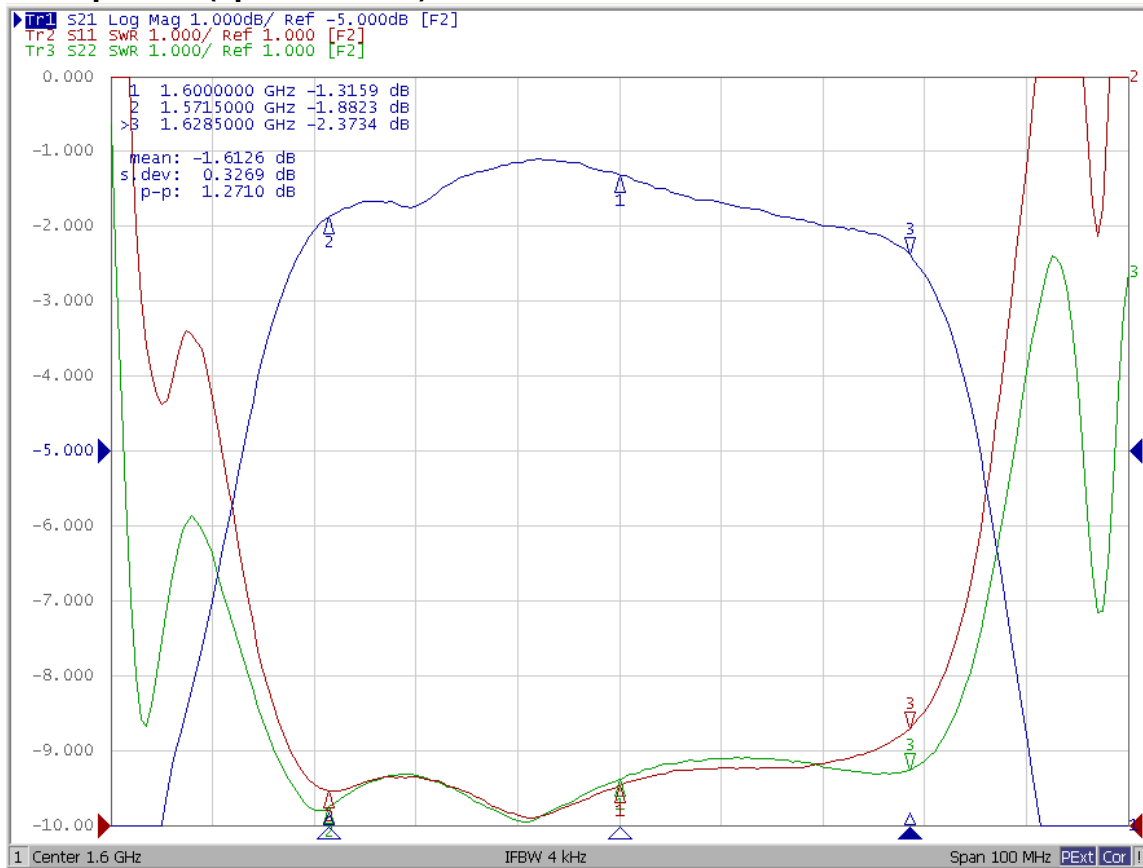


Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

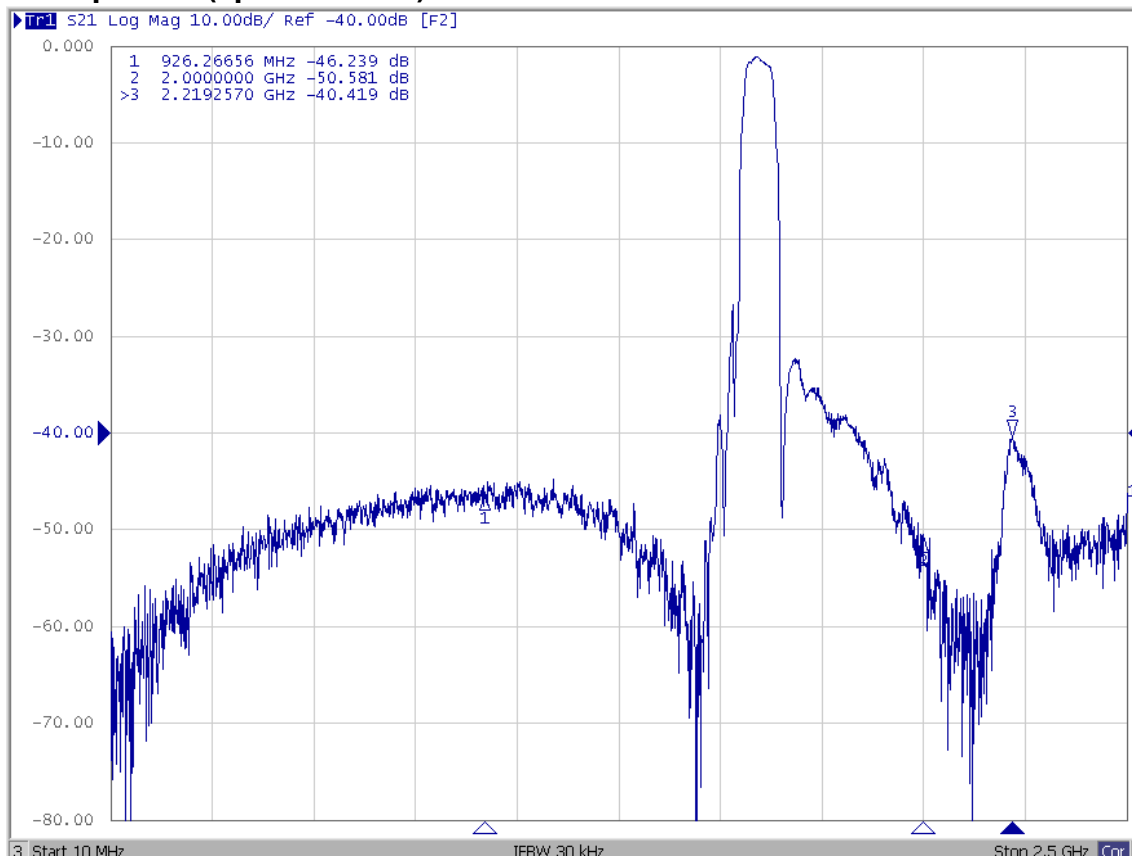
D. Frequency Characteristics :
S21 response: (span 500MHz)



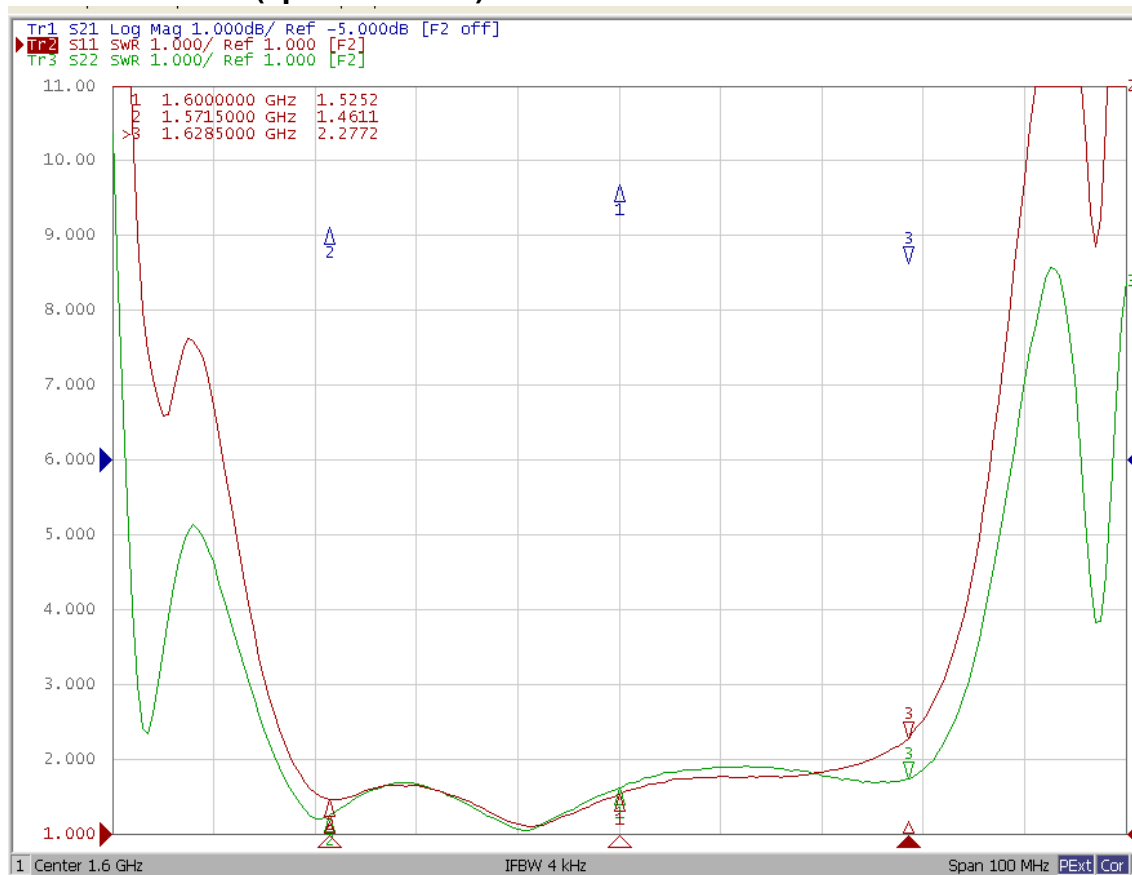
S21 response: (span 100MHz)



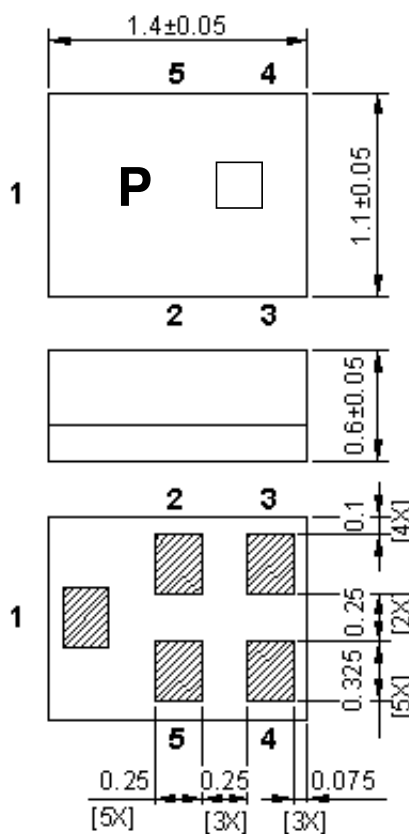
S21 response: (span 2.5 GHz)



Reflective VSWR: (span 100 MHz)



E. 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

□ : 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>

1. REEL DIMENSION
(Please refer to FR-75D10 for packing quantity)



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

