



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 1590.05 MHz (BW 31.7MHz) SMD 1.1X0.9mm

TST Parts No.:TA2385A

Customer Parts No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Michael Yang *Michael*

Approval by: _____ Andy Yu *Andy Yu*

Date: _____ 2021/08/02

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 1590.05 MHz (BW 31.7Hz) SMD 1.1x0.9x0.5mm

MODEL NO.:TA2385A

REV. NO.:2.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -20°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 3(MSL3)

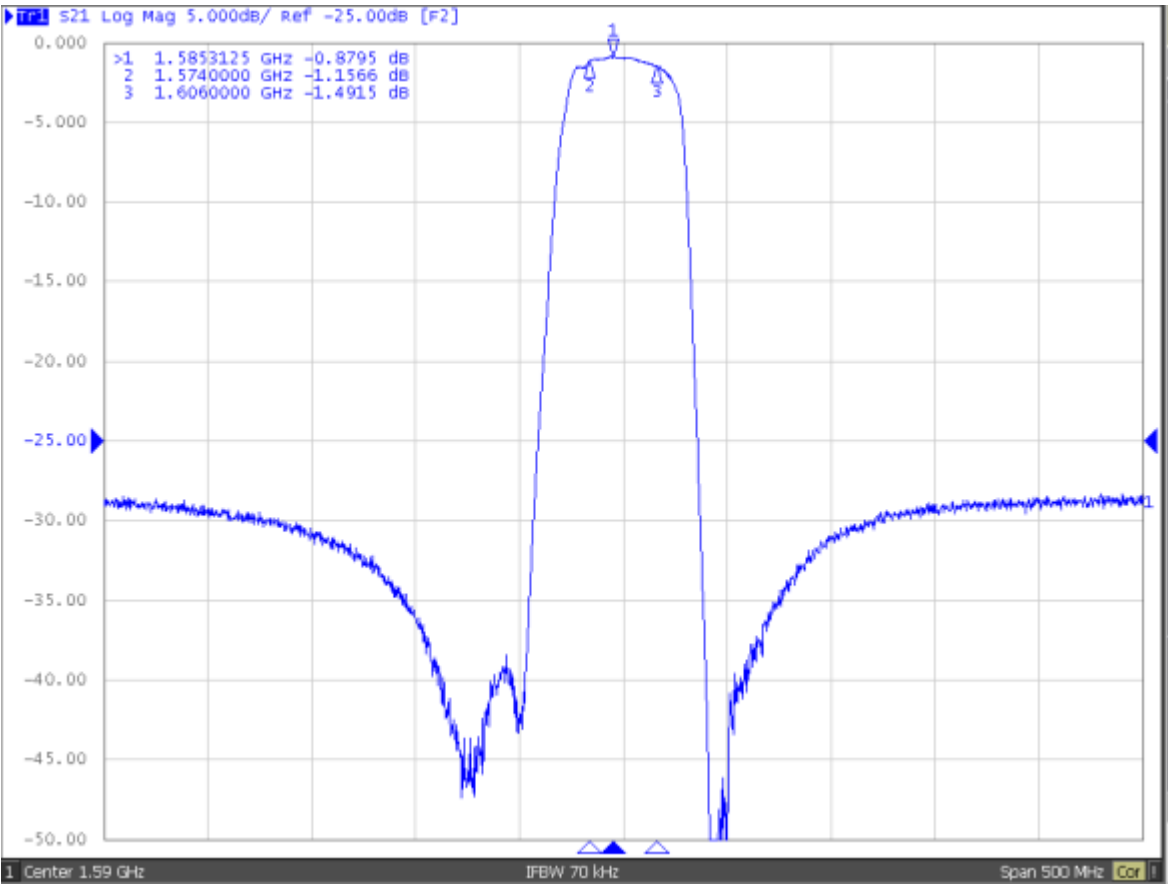


Electrostatic Sensitive Device

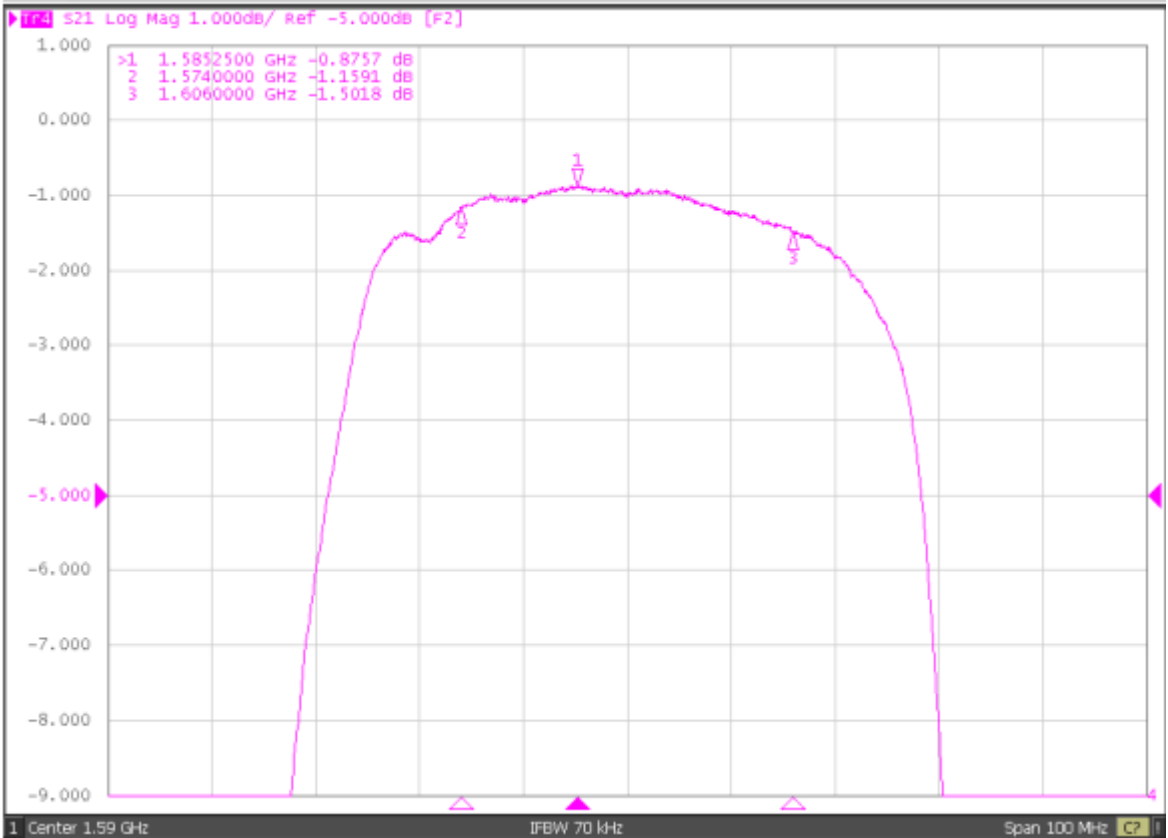
B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Type.	Max.	Note
Center Frequency Fc	MHz	-	1590.05	-	-
Insertion Loss (1574.2~1576.5MHz) IL	dB	-	1.0	1.3	-
Insertion Loss (1597.5~1605.9MHz) IL	dB	-	1.7	2.2	-
VSWR (1574.2~1576.5 MHz)		-	1.3	2.0	
VSWR (1597.5~1605.9 MHz)		-	1.3	2.0	
Amplitude ripple (1574.2~1576.5MHz)	dB	-	0.3	0.8	-
Amplitude ripple (1597.5~1605.9MHz)	dB	-	0.5	1.0	-
Attenuation					
10 ~ 925 MHz	dB	28	30	-	
925 ~ 960 MHz	dB	28	28	-	-
1427 ~ 1453 MHz	dB	25	28	-	-
1453 ~ 1510 MHz	dB	25	38	-	-
1510 ~ 1525 MHz	dB	34	37	-	
1526 ~ 1536 MHz	dB	35	40	-	-
1627 ~ 1680 MHz	dB	30	35	-	
1710 ~ 1785 MHz	dB	25	28	-	-
1850 ~ 1910 MHz	dB	25	28	-	-
1920 ~ 1980 MHz	dB	25	28	-	-
2110 ~ 2170 MHz	dB	25	28	-	-
2400 ~ 2500 MHz	dB	25	28	-	-
2500 ~ 2570 MHz	dB	25	28	-	-
Package size	mm	SMD 1.1x0.9			

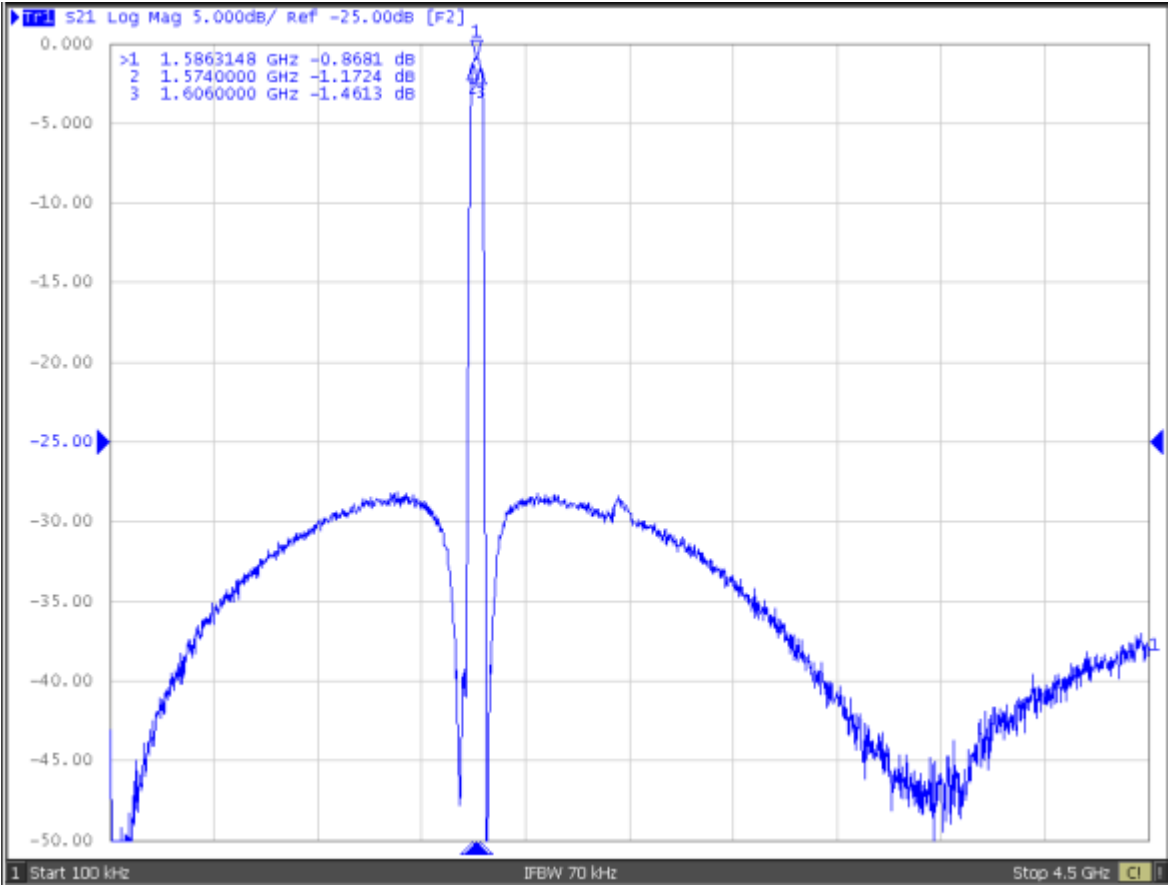
C.FREQUENCY CHARACTERISTICS:
S21 response: (span 500MHz)



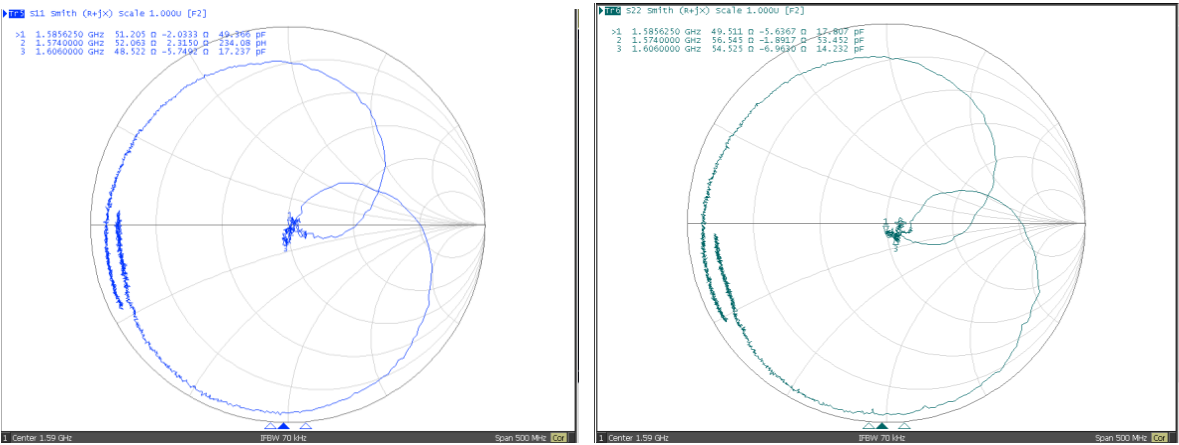
S21 response: (span 100MHz)



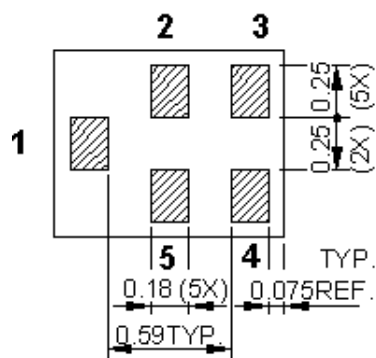
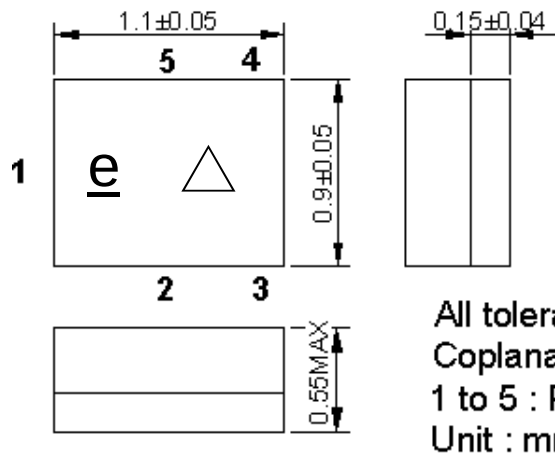
S21 response: (span 4.5GHz)



S11/S22 response: (span 500MHz)



D. OUTLINE DRAWING:

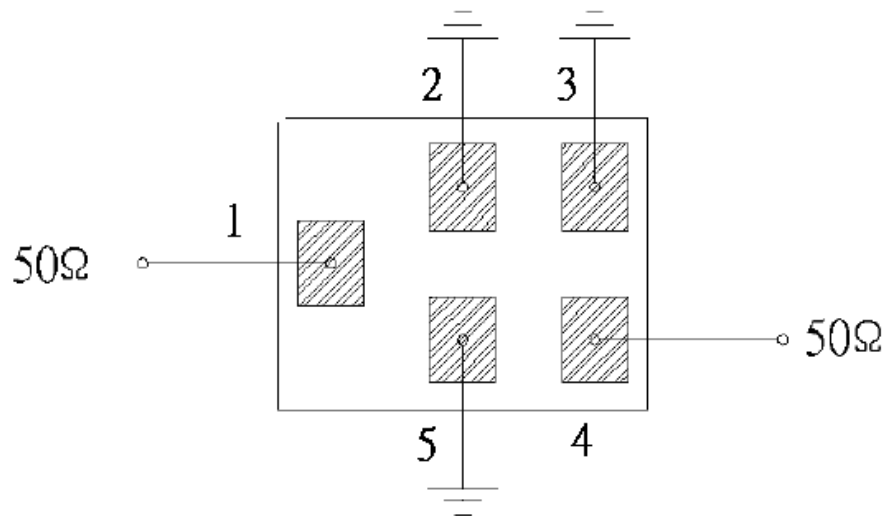


Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

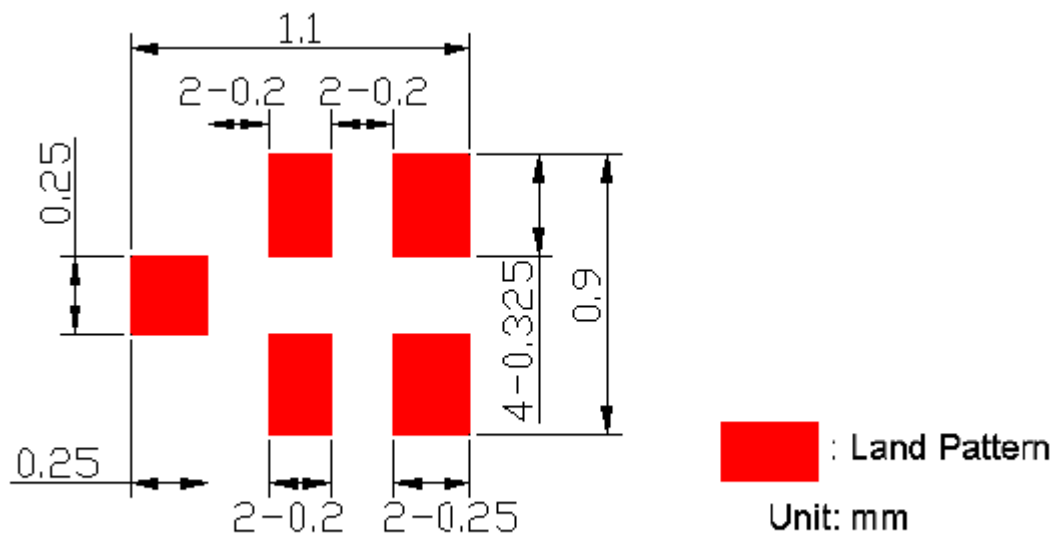
Δ : Year/Month Code (Follow the table)

YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2021	A	B	C	D	E	F	G	H	J	K	L	M
2022	N	P	Q	R	S	T	U	V	W	X	Y	Z
2023	a	b	c	d	e	f	g	h	j	k	l	m
2024	n	p	q	r	s	t	u	v	w	x	y	z
2025	<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>
2026	<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>
2027	<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>
2028	<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. MEASUREMENT CIRCUIT:



F. PCB Footprint :



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



0.2±0.05

4.0±0.1

2.0±0.05

4.0±0.1

1.75±0.1

3.5±0.05

8.0±0.2

0.5±0.05

1.06±0.03

1.3±0.03

SECTION A-A

SECTION B-B

Direction of Feed

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.

