



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 1585.655 MHz (BW 40.47MHz) SMD 1.1X0.9mm

TST Parts No.:TA2250A

Customer Parts No.:_____

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

Checked by:_____ Michael Yang *Michael*

Approval by:_____ Andy Yu *Andy Yu*

Date:_____ 2020/03/17

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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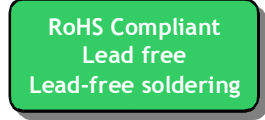
SAW Filter 1585.655 MHz (BW 40.47Hz) SMD 1.1x0.9x0.5mm

MODEL NO.:TA2250A

REV. NO.:6.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40 °C to +85 °C
4. Storage Temperature: -40 °C to +105 °C
5. Moisture Sensitivity Level: Level 3(MSL3)



Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Type.	Max. -40°C to +85°C	Max. -40°C to +105°C
Center Frequency Fc	MHz	-	1585.655	-	-
Insertion Loss (1565.42~1585.42MHz)	dB	-	1.4	1.7	1.7
Insertion Loss (1574.42~1576.42MHz)		-	1.2	1.3	1.4
Insertion Loss (1597.55~1605.89 MHz)		-	1.4	1.7	1.7
VSWR (1565.42~1585.42MHz)		-	1.7	1.8	2.0
VSWR (1597.55~1605.89 MHz)		-	1.5	1.8	2.0
Return loss S11 (1597.55~1605.89 MHz)	dB		-17	-15	-15
Return loss S22 (1597.55~1605.89 MHz)	dB		-17	-15	-15
Amplitude ripple (1565.42~1605.89MHz)	dB	-	0.5	1.0	1.0
Group Delay Variation					
(1565.42~1585.42MHz)	ns		4	5	6
(1574.42~1576.42MHz)	ns		2	4	5
(1597.55~1605.89 MHz)	ns		3	5	8
Attenuation					-
10 ~ 960 MHz	dB	35	40	-	-
1427 ~ 1453 MHz	dB	37	42	-	-
1453 ~ 1501 MHz	dB	25	30	-	-
1501 ~ 1525 MHz	dB	21	26	-	-
1626 ~ 1660 MHz	dB	2	5	-	-
1710 ~ 1785 MHz	dB	27	32	-	-
1850 ~ 1910 MHz	dB	33	38	-	-
1920 ~ 1980 MHz	dB	33	38	-	-
2110 ~ 2170 MHz	dB	33	38	-	-
2400 ~ 2500 MHz	dB	41	46	-	-
2500 ~ 2570 MHz	dB	39	44	-	-
Temperature coefficient	ppm/°C	-36			

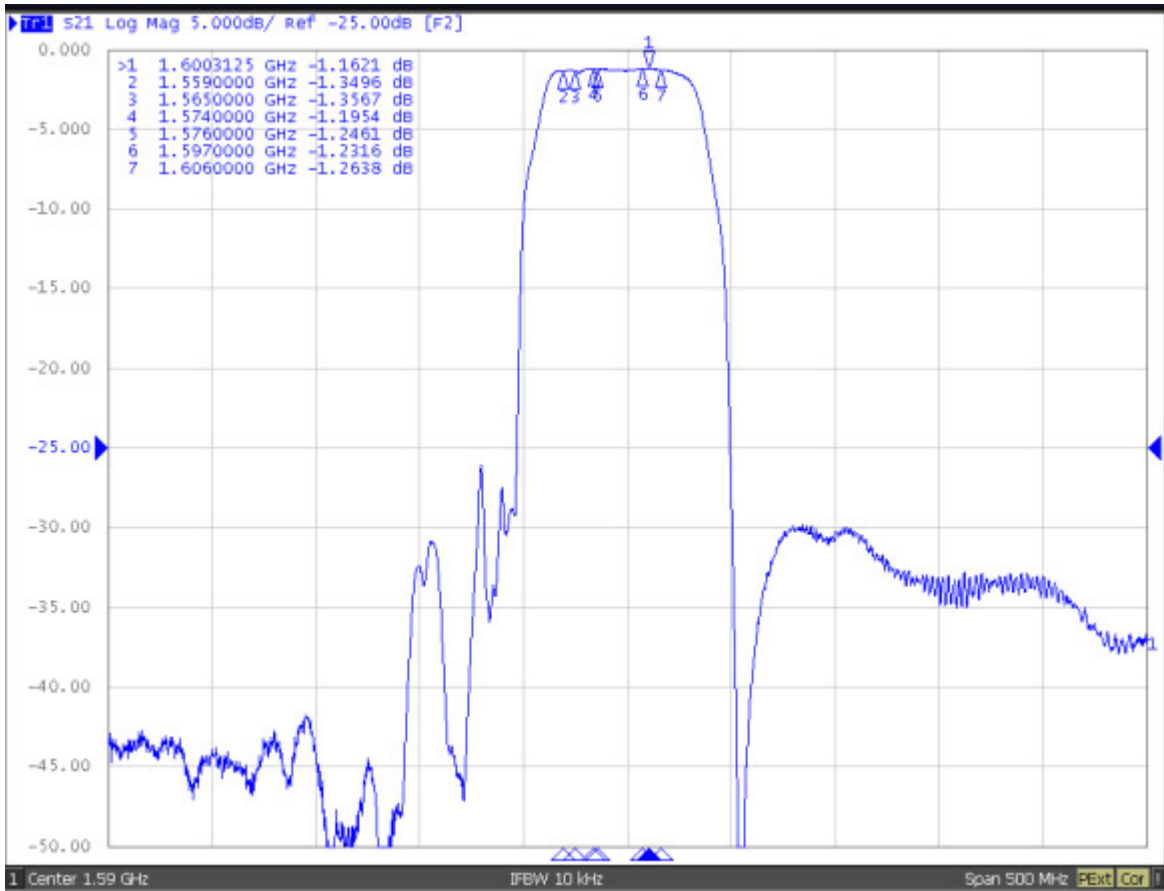
Package size

mm

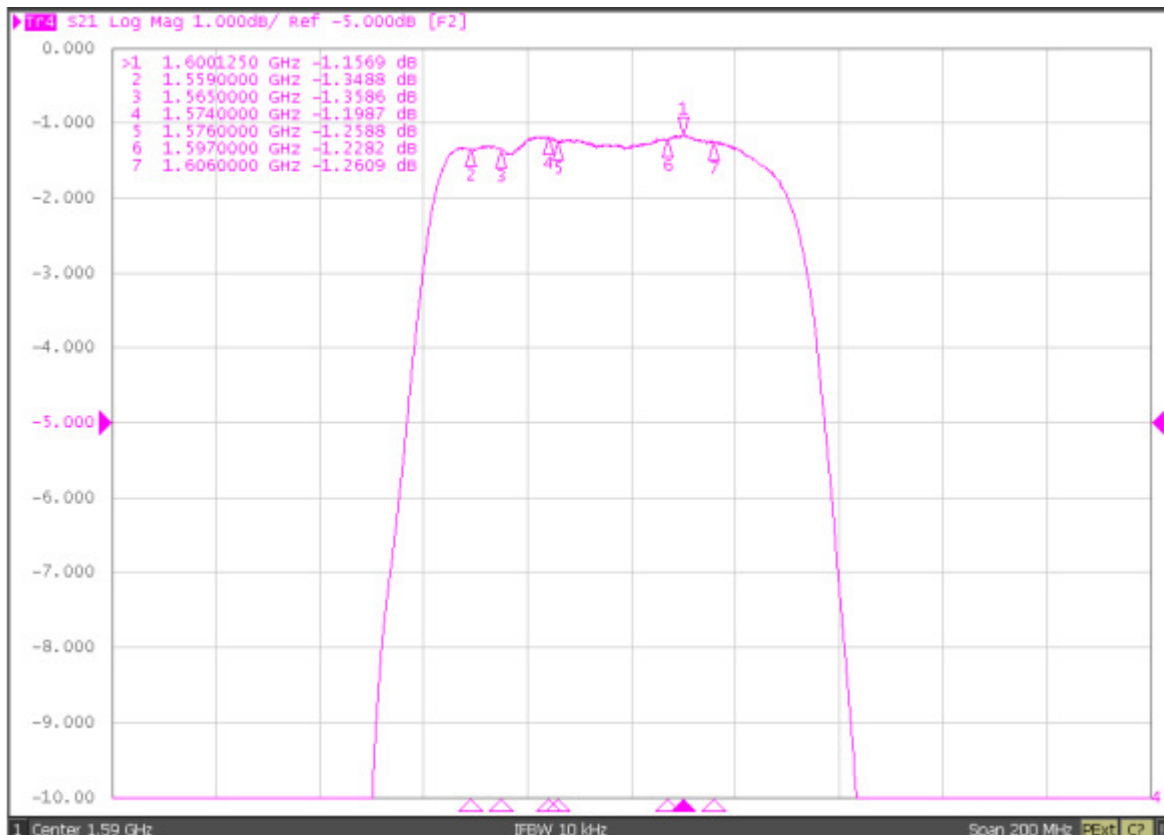
SMD 1.1x0.9

C.FREQUENCY CHARACTERISTICS:

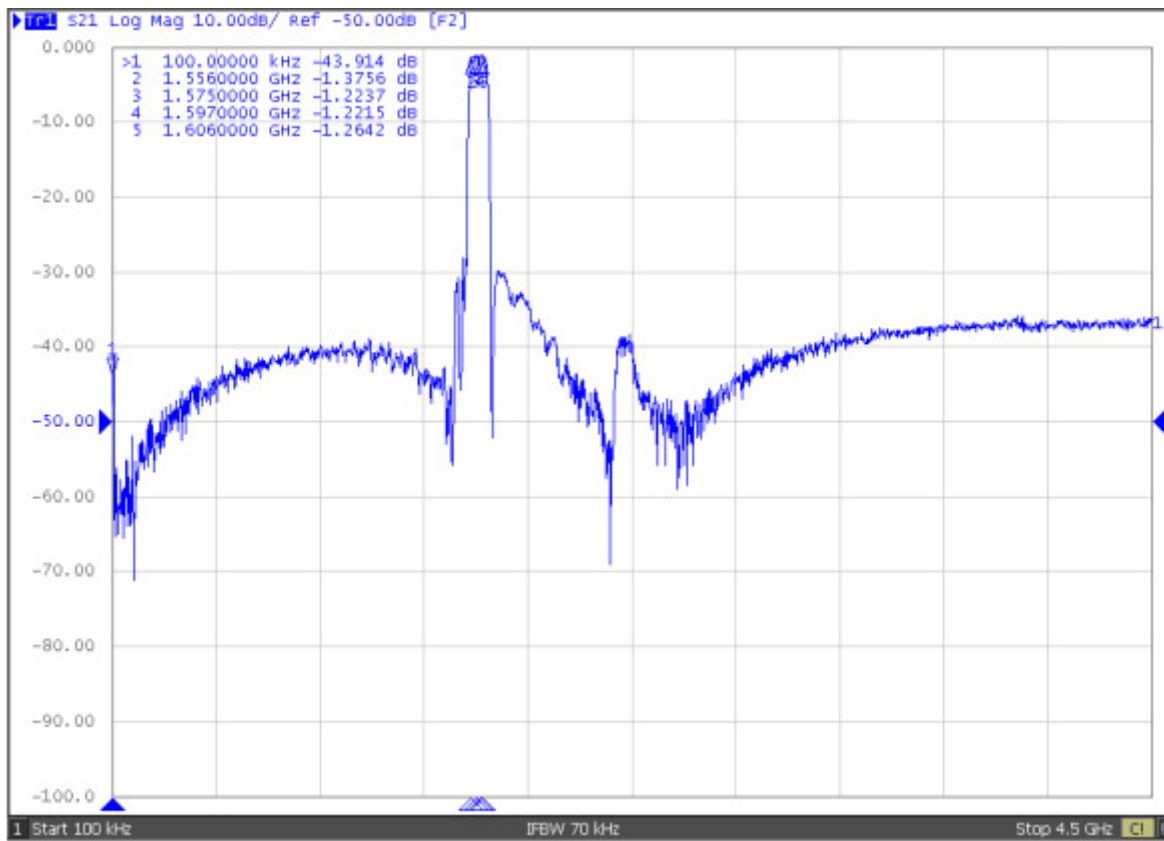
S21 response: (span 500MHz)



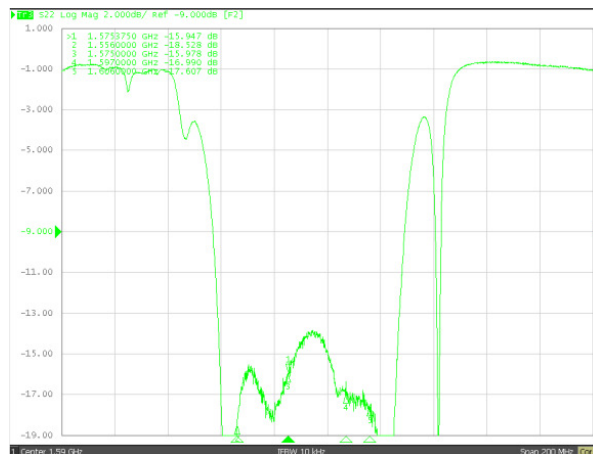
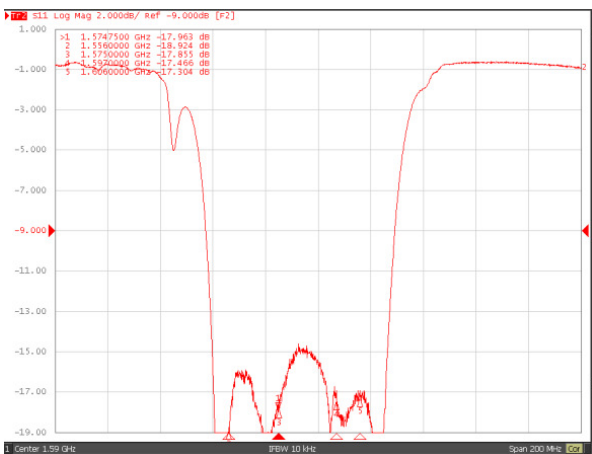
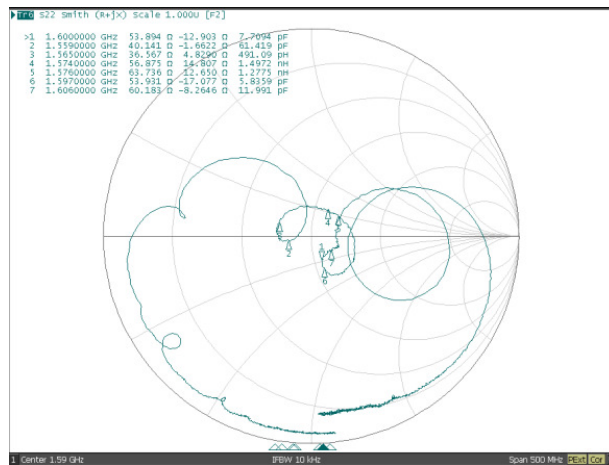
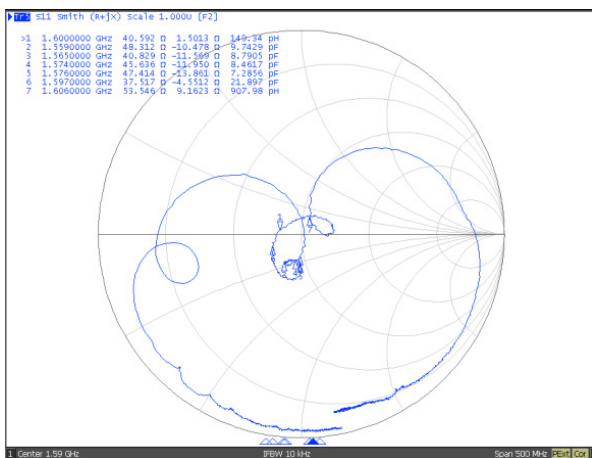
S21 response: (span 200MHz)



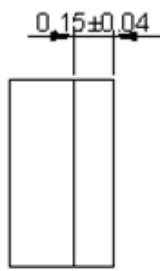
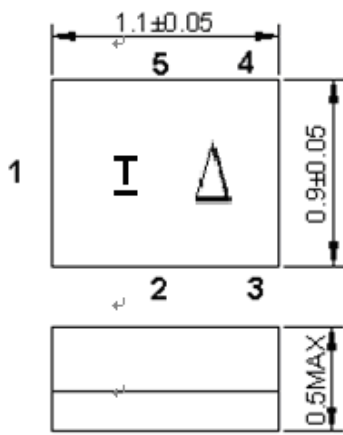
S21 response: (span 4.5GHz)



S11/S22 response:



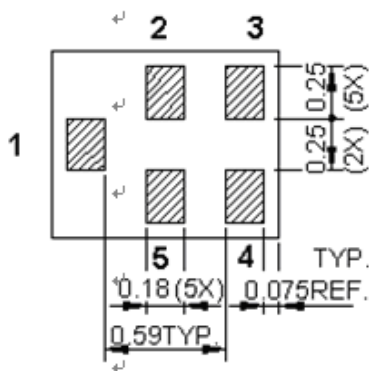
D. OUTLINE DRAWING:



All tolerances are +/-0.05 mm unless otherwise specified
Coplanarity : 0.1 mm max.

1 to 5 : Pin No.

Unit : mm

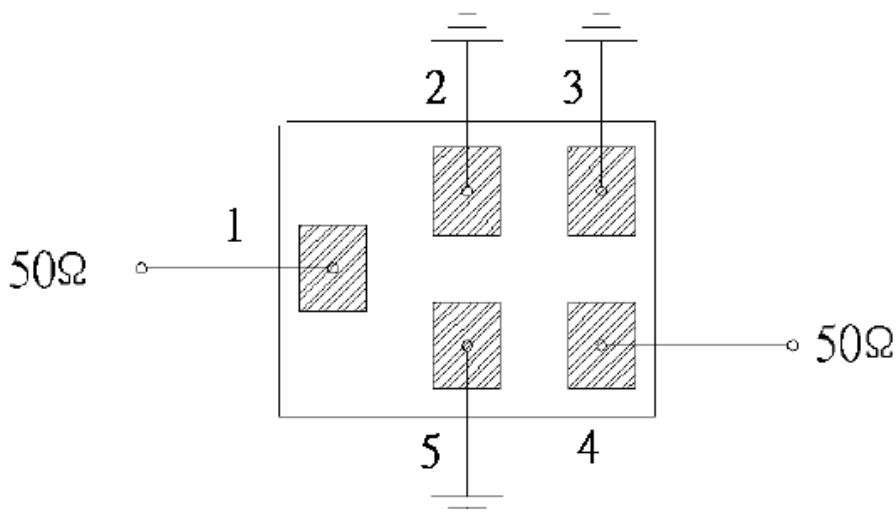


Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

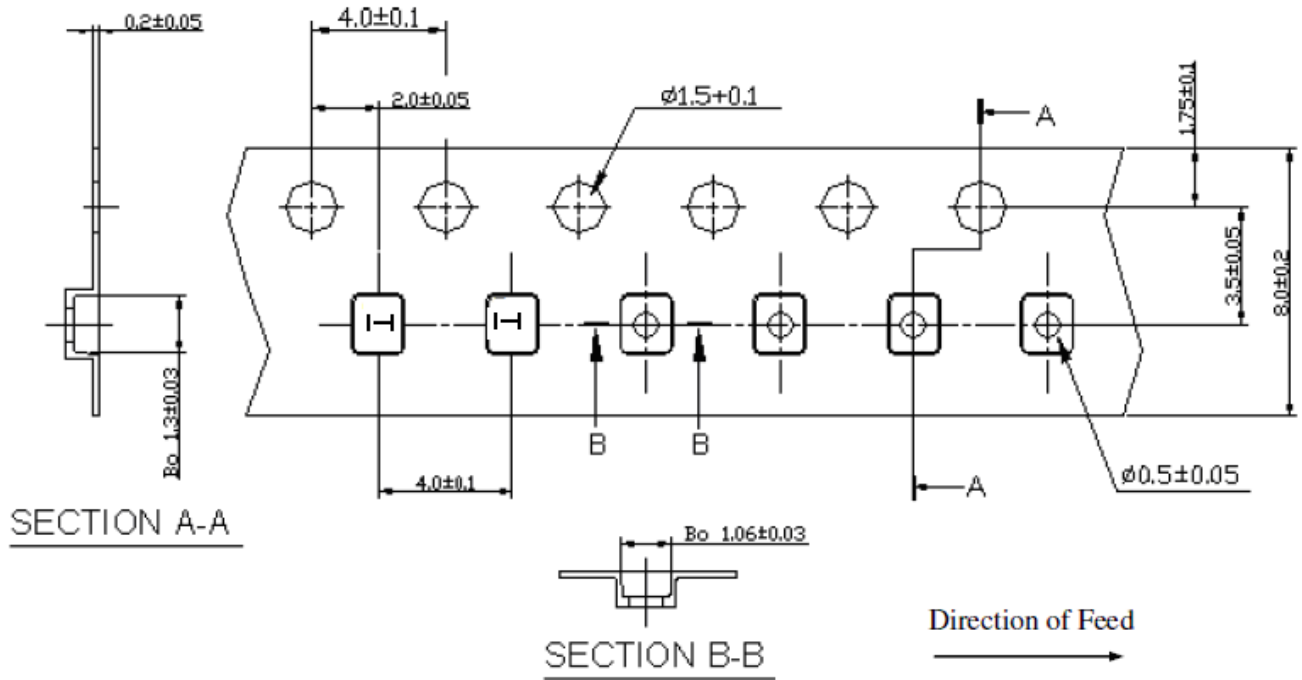
Δ : Year/Month Code (Follow the table)

YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
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>

E. MEASUREMENT CIRCUIT:



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at $150 \sim 180^{\circ}\text{C}$ 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 $260^{\circ}\text{C} + 0/-5^{\circ}\text{C}$ peak (20~40sec).
4. Time: 2 times.

