



TAI-SAW TECHNOLOGY CO., LTD.

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

TEL: 886-3-4690038 FAX: 886-3-4697532

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Product Specifications Approval Sheet

Product Description: SAW Filter 2450 MHz SMD 1.4x1.1 mm (BW=100 MHz)

TST Part No.: TA1629C

Customer Part No.: _____

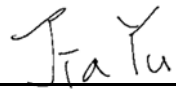
Customer signature required

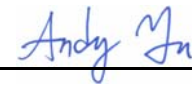
Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Jai Yu 

Approved by: _____ Andy Yu 

Date: _____ 2021/06/11

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 2450 MHz SMD 1.4x1.1 mm (BW=100 MHz)

MODEL NO.:TA1629C

REV. NO.: 2.0

A. MAXIMUM RATING:

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



Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

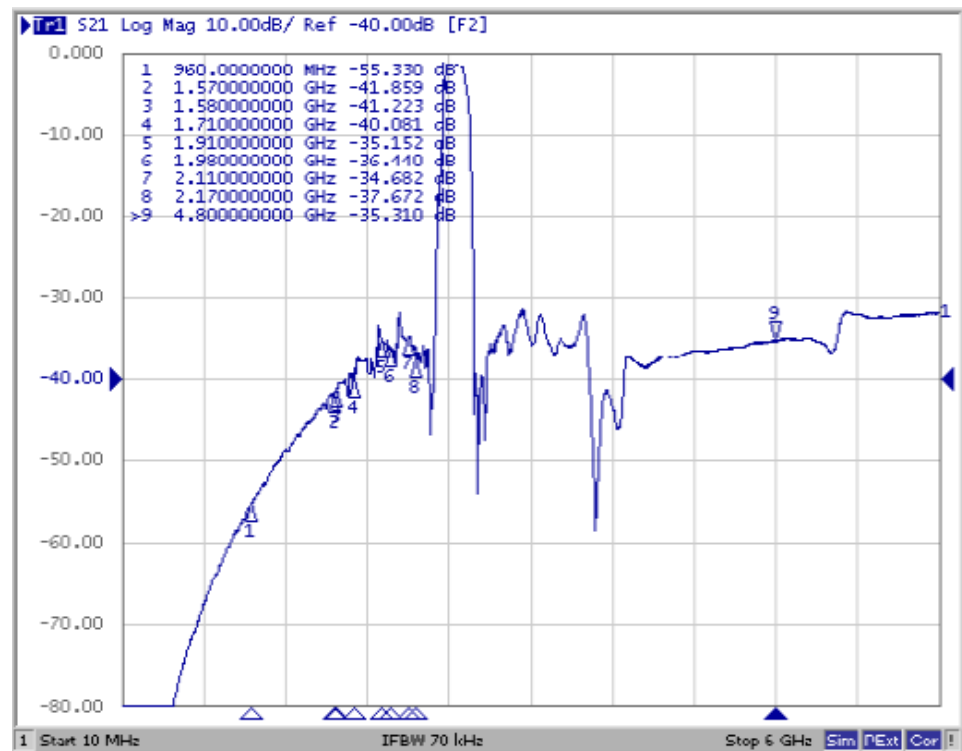
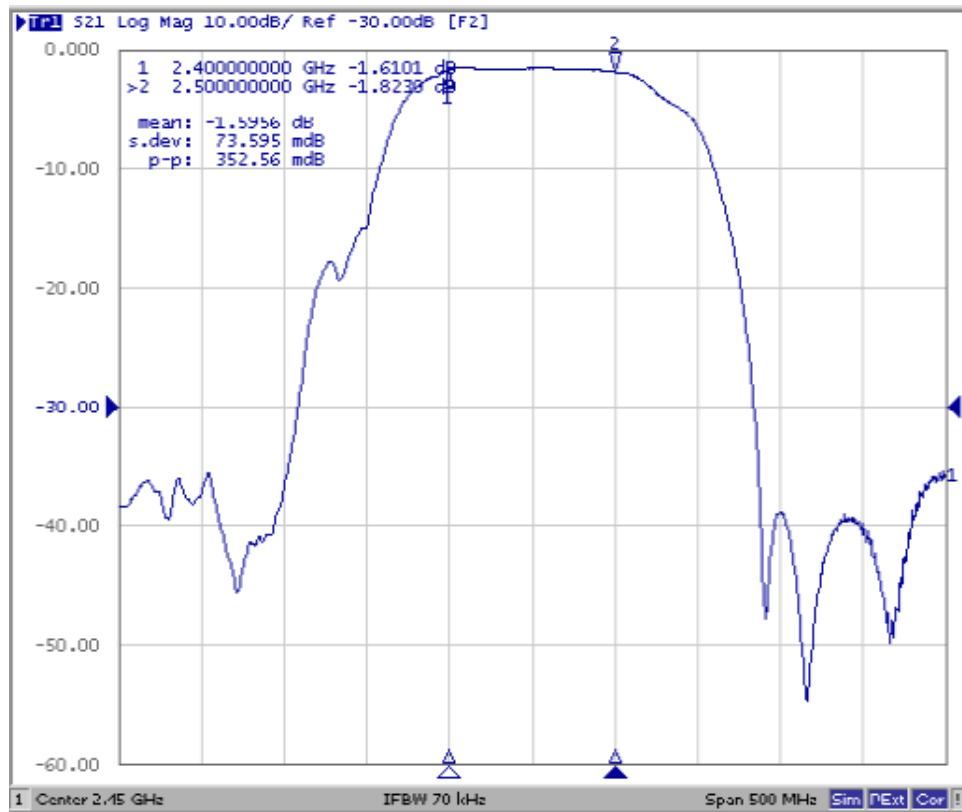
Terminating source impedance: $Z_s = 50 \Omega$ (Single-ended)

Terminating load impedance: $Z_L = 50 \Omega$ (Single-ended)

Parameters Description		Unit	Min.	Typ.	Max.
Center Frequency		MHz	-	2450	-
Insertion Loss	2400~2500 MHz	dB	-	1.6	2.5
Amplitude Ripple	2400~2500 MHz	dB _{p-p}	-	0.4	1.5
VSWR	2400~2500 MHz	-	-	1.4	2.3
Attenuation (Reference level from 0dB):					
D.C~960 MHz		dB	35	55	-
960~1570 MHz		dB	35	42	-
1570~1580 MHz		dB	35	41	-
1580~1710 MHz		dB	35	40	-
1710~1910 MHz		dB	30	35	-
1910~1980 MHz		dB	30	36	-
2110~2170 MHz		dB	30	35	-
2640~3000 MHz		dB	25	31	-
3000~4800 MHz		dB	25	32	-
4800~5000 MHz		dB	20	35	-
5000~6000 MHz		dB	20	32	-

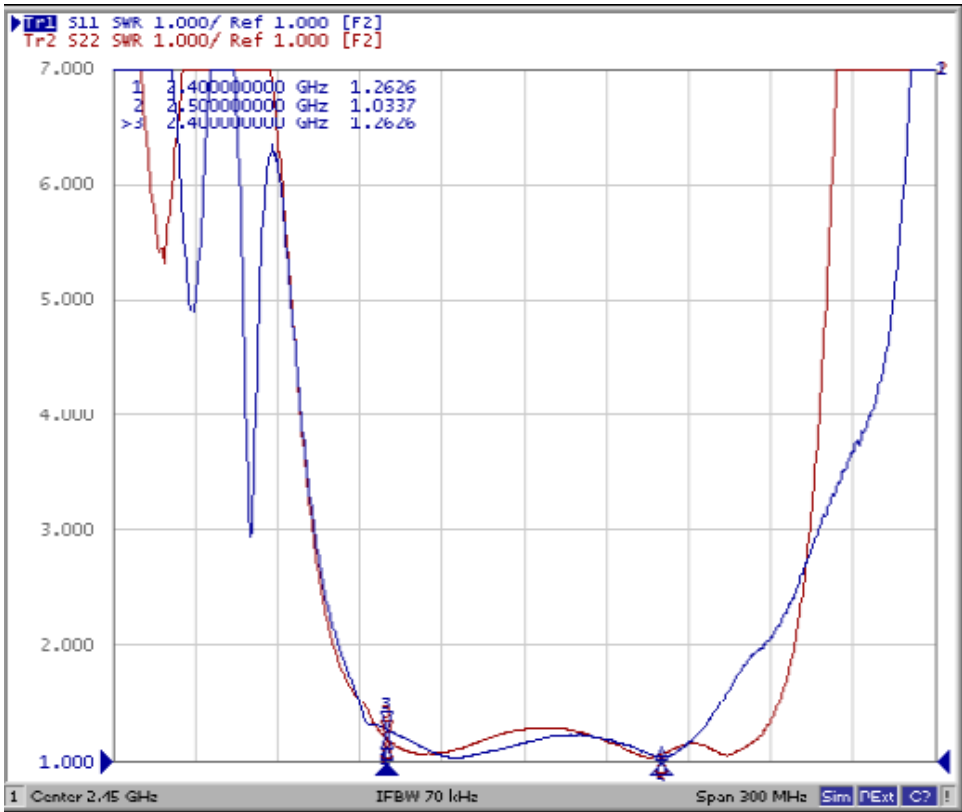
Notes: (1) With Matching Network (Ref. Testing Environment Circuit as shown below).

C. FREQUENCY CHARACTERISTICS:

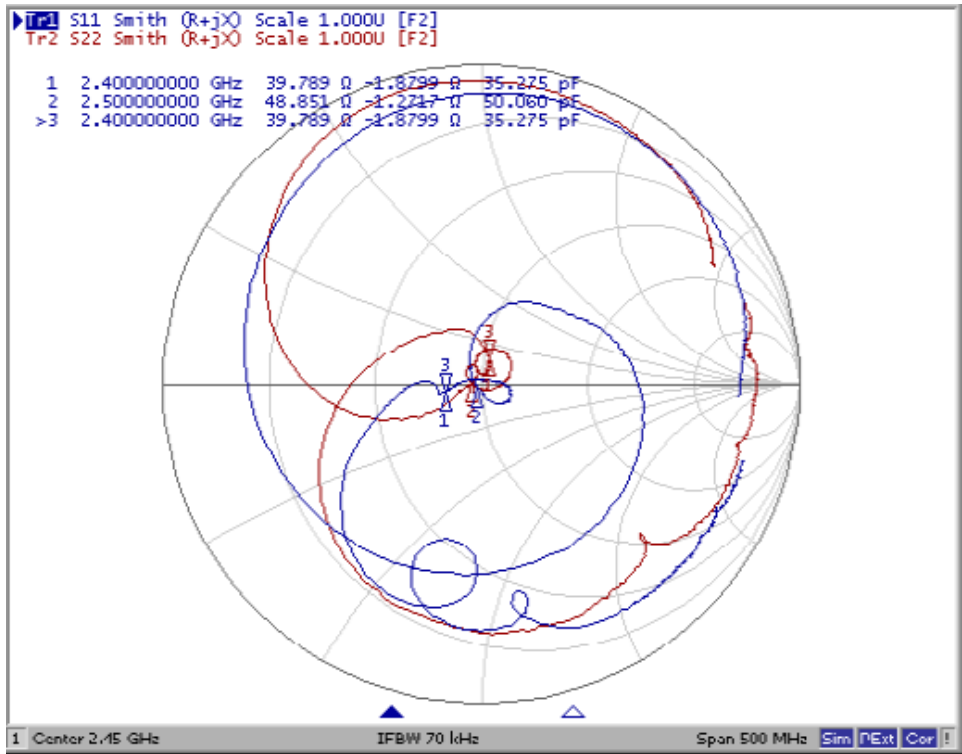


Reflection Functions:

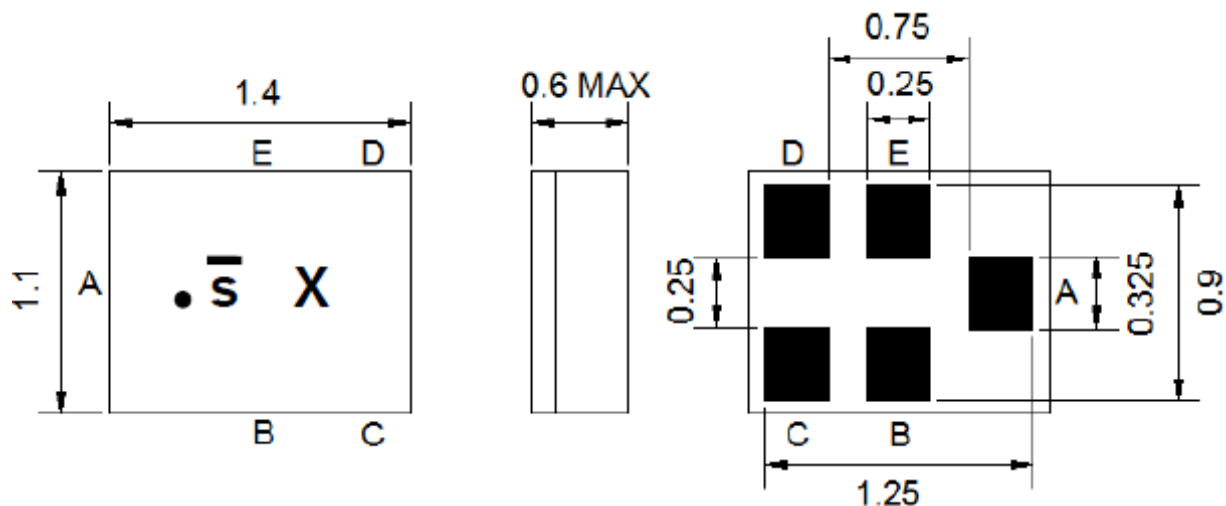
VSWR



Smith Chart



D. OUTLINE DRAWING:



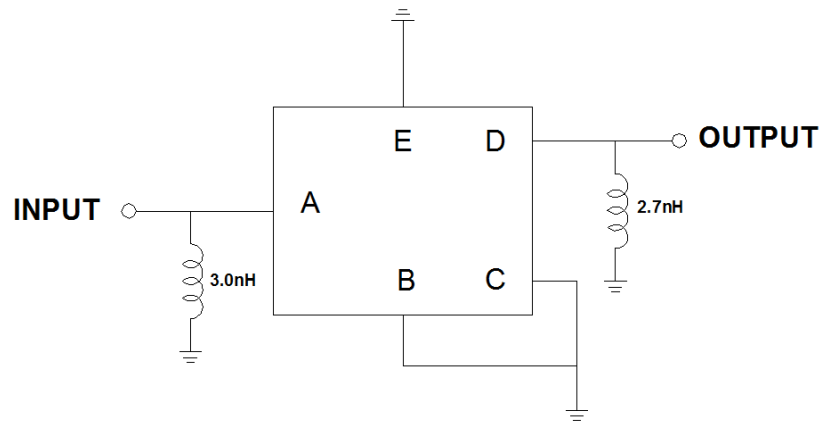
Marking Descriptions	
<u>S</u>	Series Number
X	Date Code(Year+Month)

Pin Description	
B, C, E	Ground
A	Input
D	Output

X : Year/Month Code (Follow the table)

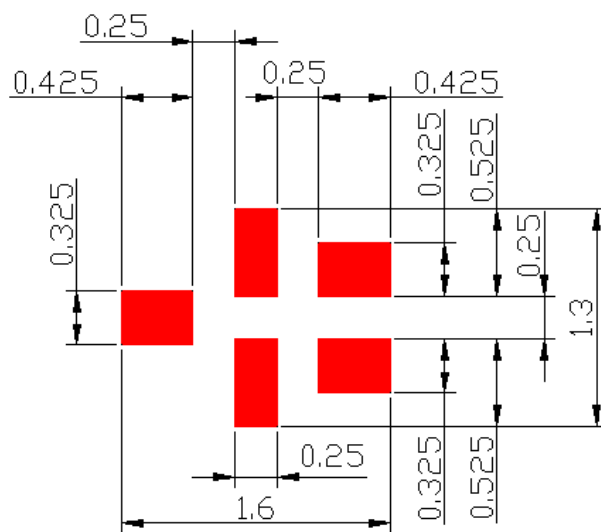
YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2013/2021	A	B	C	D	E	F	G	H	J	K	L	M
2014/2022	N	P	Q	R	S	T	U	V	W	X	Y	Z
2015/2023	a	b	c	d	e	f	g	h	j	k	l	m
2016/2024	n	p	q	r	s	t	u	v	w	x	y	z
2017/2025	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
2018/2026	<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>
2019/2027	<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>
2020/2028	<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:



Source & Load Impedance: 50 Ω

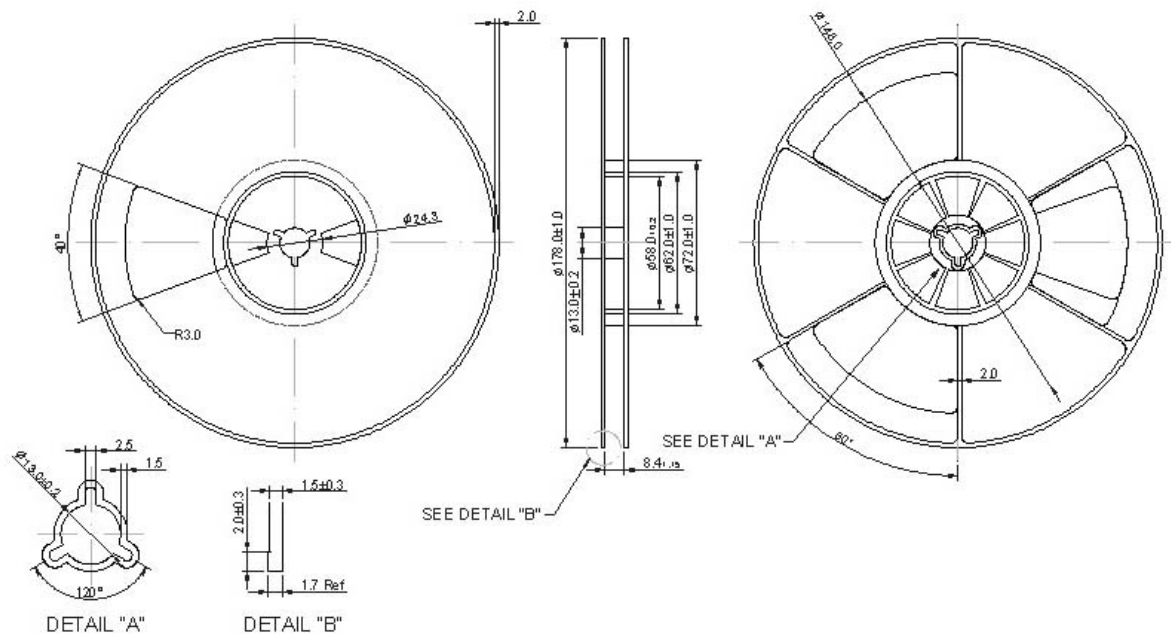
F. FOOTPRINT:



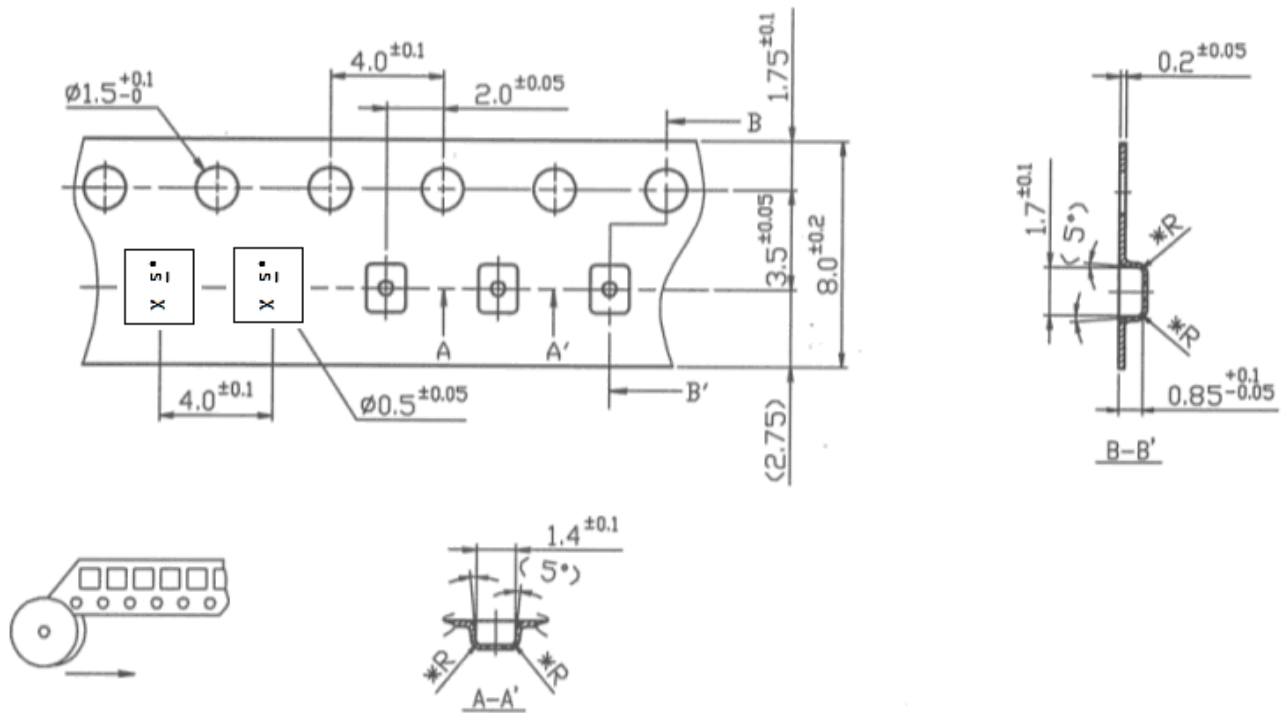
 : Land Pattern
 Unit : mm

G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



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.

