



# TAI-SAW TECHNOLOGY CO., LTD.

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

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## Product Specifications Approval Sheet

Product Description: SAW Filter 2441.75MHz (BW 83.5MHz) SMD 1.4X1.1mm

TST Parts No.:TA2269A

Customer Parts No.:\_\_\_\_\_

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

Checked by:\_\_\_\_\_ Michael Yang *Michael*

Approval by:\_\_\_\_\_ Andy Yu *Andy Yu*

Date:\_\_\_\_\_ 2021/01/06

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 2441.75MHz (BW 83.5MHz) SMD 1.4x1.1mm

MODEL NO.:TA2269A

REV. NO.:5.0

### A. MAXIMUM RATING:

1. Input Power Level: 13 dBm
2. DC Voltage : 3V
3. Operating Temperature: -30 °C to +85 °C
4. Storage Temperature: -40 °C to +105 °C
5. Moisture Sensitivity Level: Level 3(MSL3)
6. ESD: 50 V(MM), 100 V(HBM)



Electrostatic Sensitive Device (ESD)

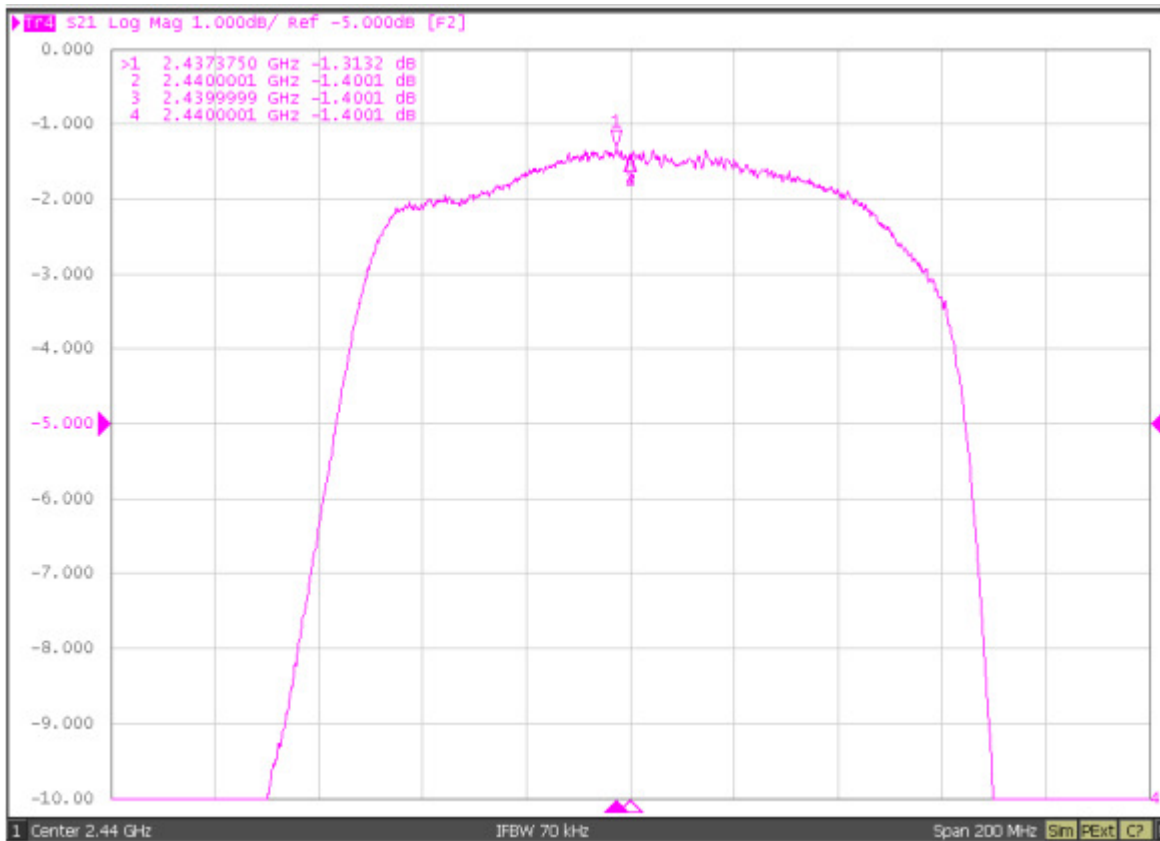
### B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min	Type.	Max
<b>Center Frequency</b> <b>Fc</b>	MHz	-	2441.75	-
<b>Insertion Loss</b> <b>IL</b> 2400 – 2483.5 MHz	dB		2.2	2.6
<b>Amplitude ripple</b> 2400 – 2483.5 MHz			0.7	1.5
<b>VSWR</b> 2400 – 2483.5 MHz			2.0	2.4
<b>Attenuation</b>				
0.1 – 960 MHz	dB	30	35	
1570 – 1990 MHz	dB	30	33	
2110 – 2170 MHz	dB	38	43	
2170 – 2300 MHz	dB	29	34	
2300 – 2320 MHz	dB	29	34	
2320 – 2345 MHz	dB	23	28	
2345 – 2365 MHz	dB	5	10	
2550 – 2800 MHz	dB	15	20	
2800 – 4000 MHz	dB	30	35	
4000 – 5000 MHz	dB	30	33	
Temperature coefficient	ppm/°C	-36		
Package size	mm	SMD 1.4x1.1		

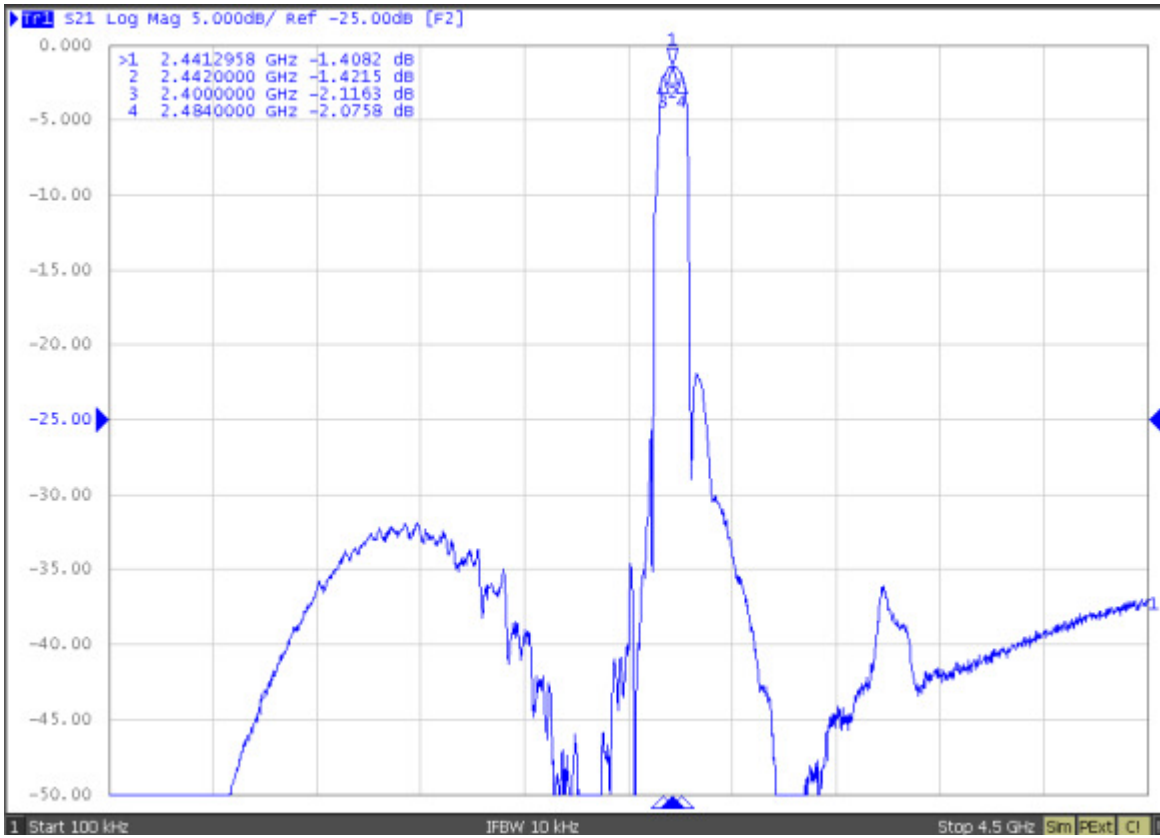
**C.FREQUENCY CHARACTERISTICS:**  
**S21 response: (span 500MHz)**



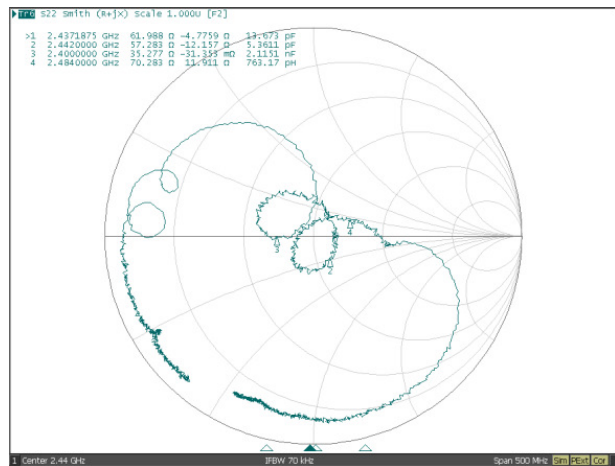
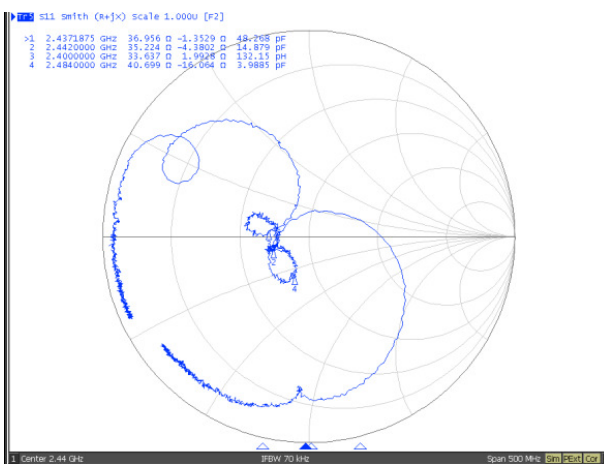
**S21 response: (span 200MHz)**



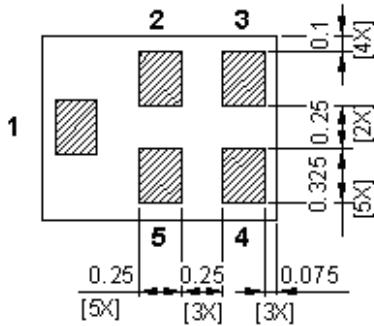
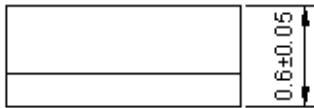
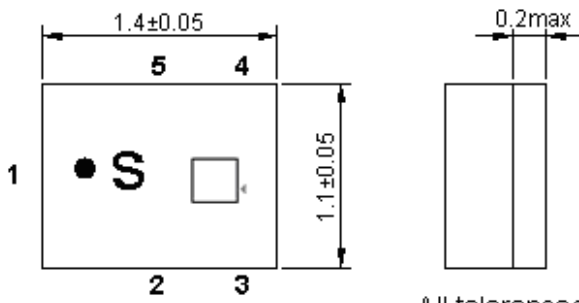
### S21 response: (span 4.5GHz)



### S11/S22 response:



**D.OUTLINE DRAWING:**



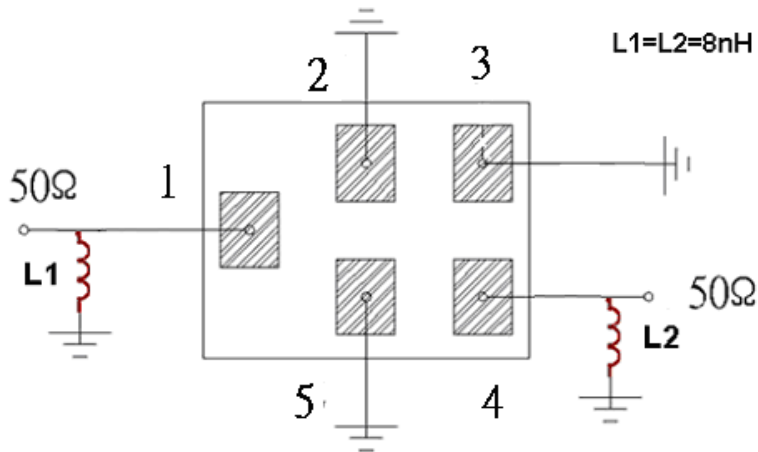
All tolerances are +/-0.05 mm unless otherwise specified  
 Coplanarity : 0.1 mm max.  
 1 to 5 : Pin No.  
 Unit : mm

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

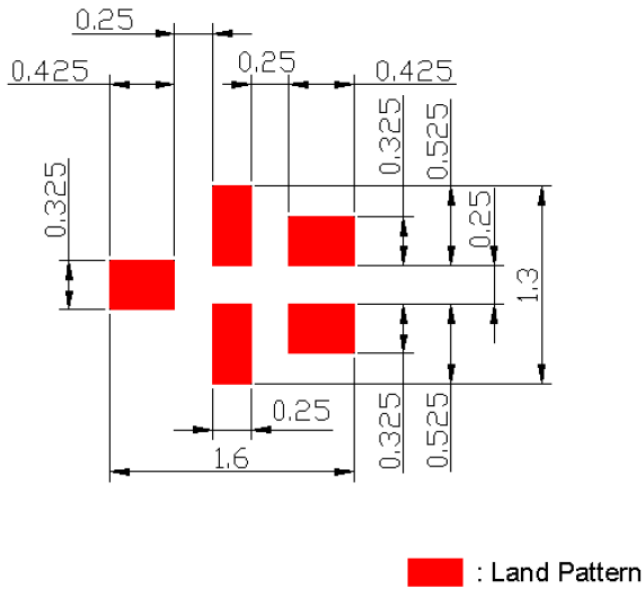
□ : Year/Month Code (Follow the table)

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:**



**F. PCB Footprint:**

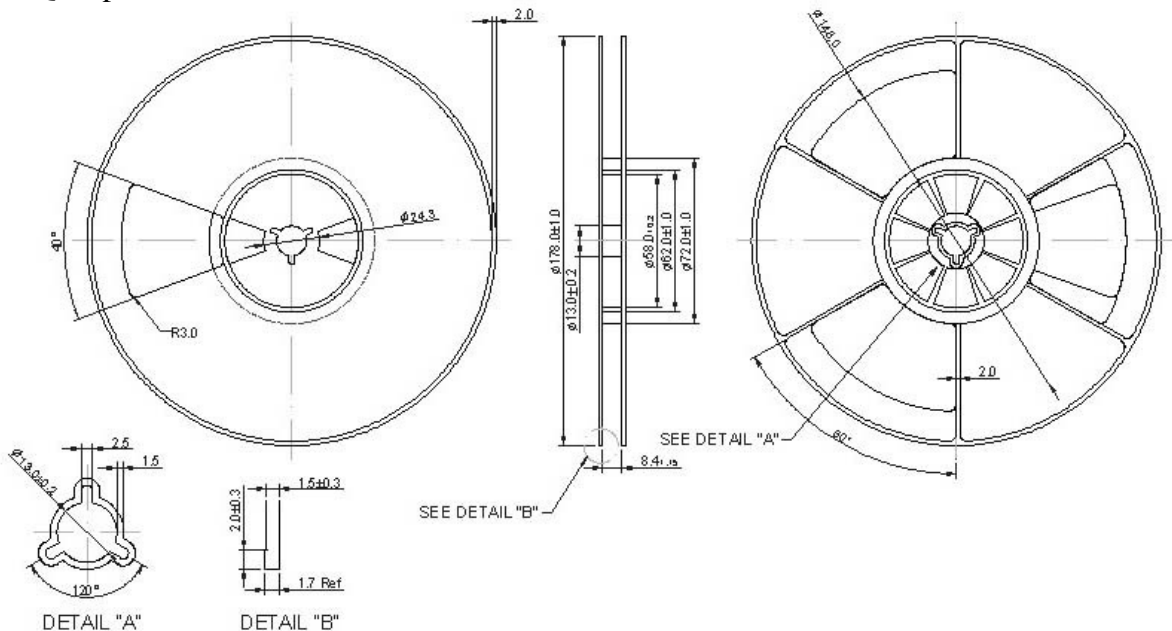


**G. PACKING:**

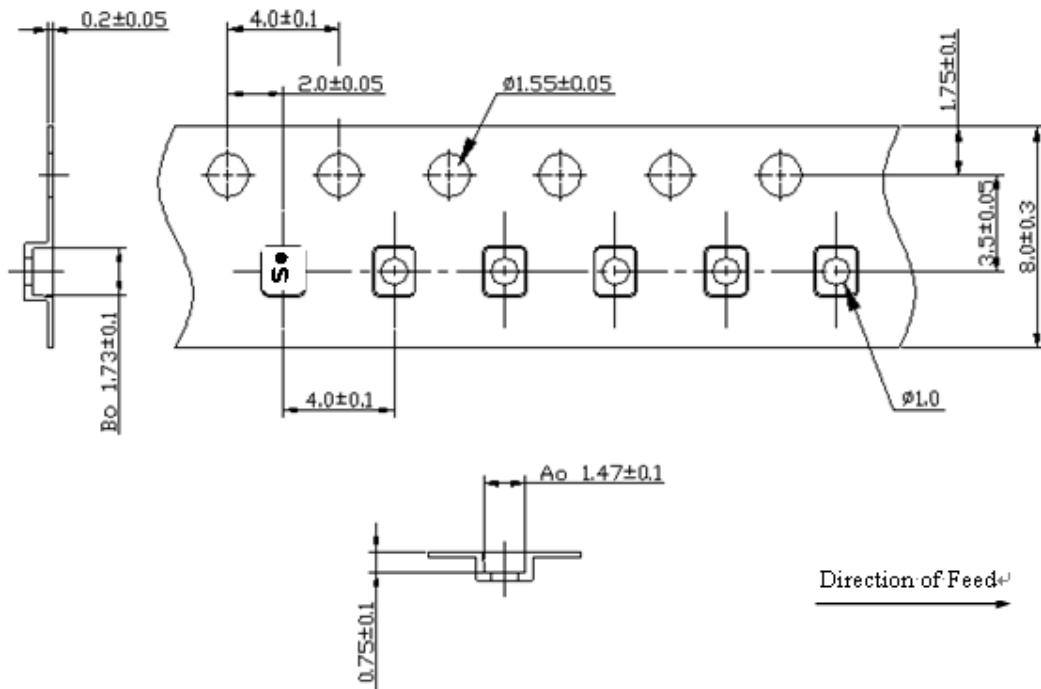
1. REEL DIMENSION

(Please refer to FR-75D10 for packing quantity)

SPQ 3Kpcs/ reel



## 2. TAPE DIMENSION



### H. Recommended Reflow Profile:

1. Preheating shall be fixed at  $150 \sim 180^\circ\text{C}$  for  $60 \sim 90$  seconds.
2. Ascending time to preheating temperature  $150^\circ\text{C}$  shall be 30 seconds min.
3. Heating shall be fixed at  $220^\circ\text{C}$  for  $50 \sim 80$  seconds and at  $260^\circ\text{C} +0/-5^\circ\text{C}$  peak ( $20 \sim 40$ sec).
4. Time: 2 times.

