



# 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 924 MHz SMD 1.4x1.1 mm (BW=8 MHz)

TST Part No.: TA2000A

Customer Part No.: \_\_\_\_\_

Customer signature required
Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: \_\_\_\_\_ David Chang *David*

Approved by: \_\_\_\_\_ Bob Chau *Bob Chau*

Date: \_\_\_\_\_ 2016/05/17

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 924 MHz

MODEL NO.: TA2000A

REV. NO.:1

### A. MAXIMUM RATING:

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

RoHS Compliant  
Lead free  
Lead-free soldering

Electrostatic Sensitive Device (ESD)

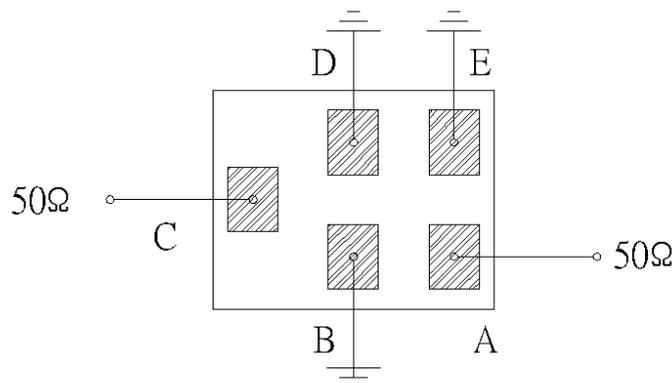
### B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance :  $Z_s = 50 \Omega$

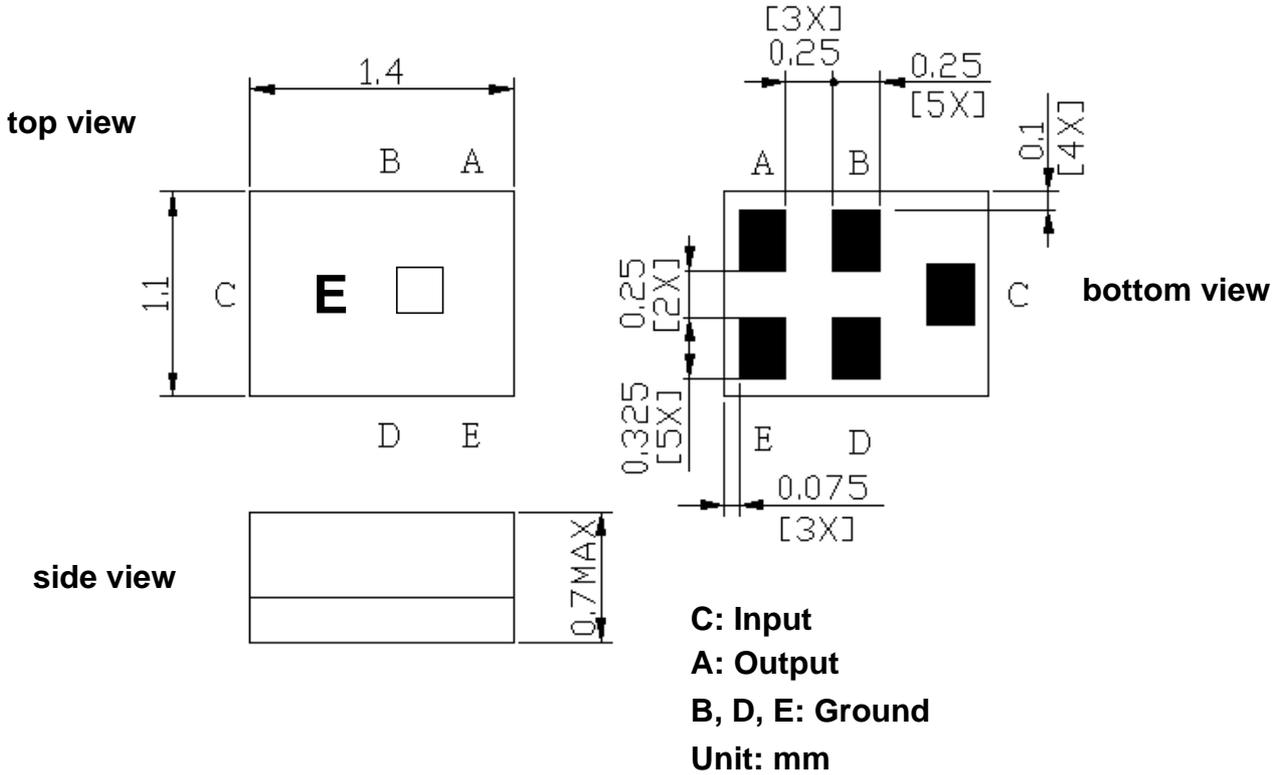
Terminating load impedance :  $Z_L = 50 \Omega$

Item	Unit	Min.	Type.	Max.
<b>Center Frequency</b> <span style="float:right"><b>Fc</b></span>	MHz	-	924	-
<b>Insertion Loss</b> (920 ~ 928 MHz) <span style="float:right"><b>IL</b></span>	dB	-	1.4	2.4
<b>Amplitude ripple</b> (920 ~ 928 MHz)	dB	-	0.3	1.5
<b>Attenuation</b> (Reference level from 0 dB)				
40 ~ 874 MHz	dB	37	43	-
874 ~ 890 MHz	dB	20	39	-
890 ~ 895 MHz	dB	3	23	-
950 ~ 960 MHz	dB	3	18	-
960 ~ 995 MHz	dB	23	33	-
995 ~ 1500 MHz	dB	34	41	-
1500 ~ 3000 MHz	dB	27	36	-
<b>Temperature coefficient of frequency</b>	ppm/k	-	-36	-

### C. MEASUREMENT CIRCUIT:



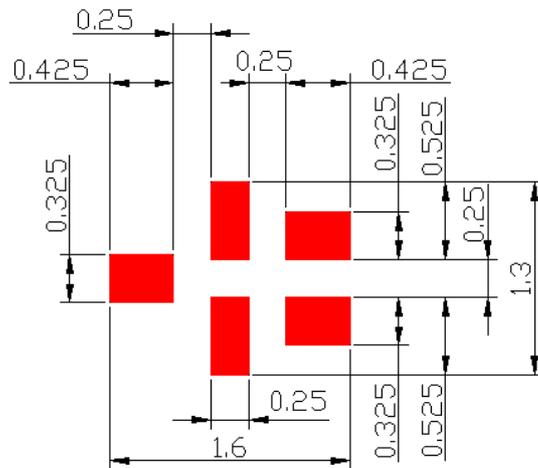
**D. OUTLINE DRAWING:**



□ : Year/Month Code (Follow the table)

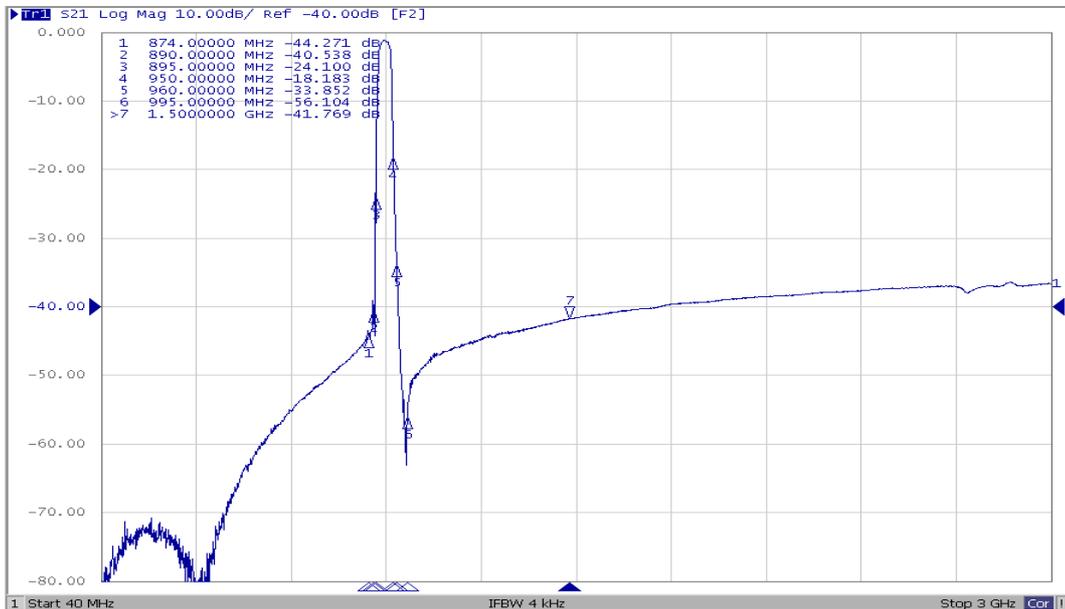
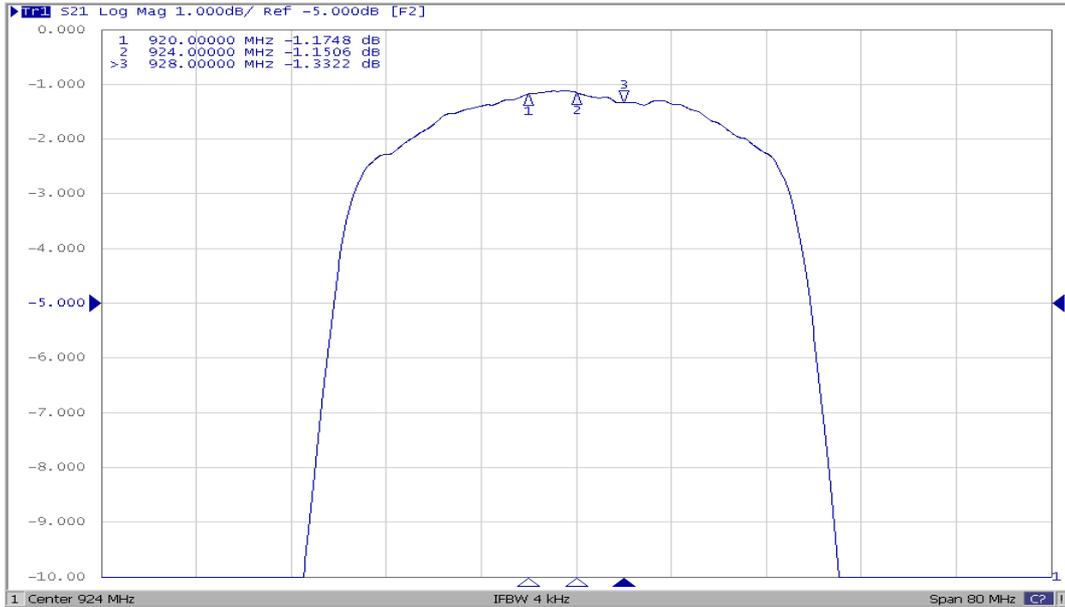
YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2013	A	B	C	D	E	F	G	H	J	K	L	M
2014	N	P	Q	R	S	T	U	V	W	X	Y	Z
2015	a	b	c	d	e	f	g	h	j	k	l	m
2016	n	p	q	r	s	t	u	v	w	x	y	z
2017	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
2018	<u>N</u>	<u>P</u>	<u>Q</u>	<u>R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



■ : Land Pattern  
 Unit : mm

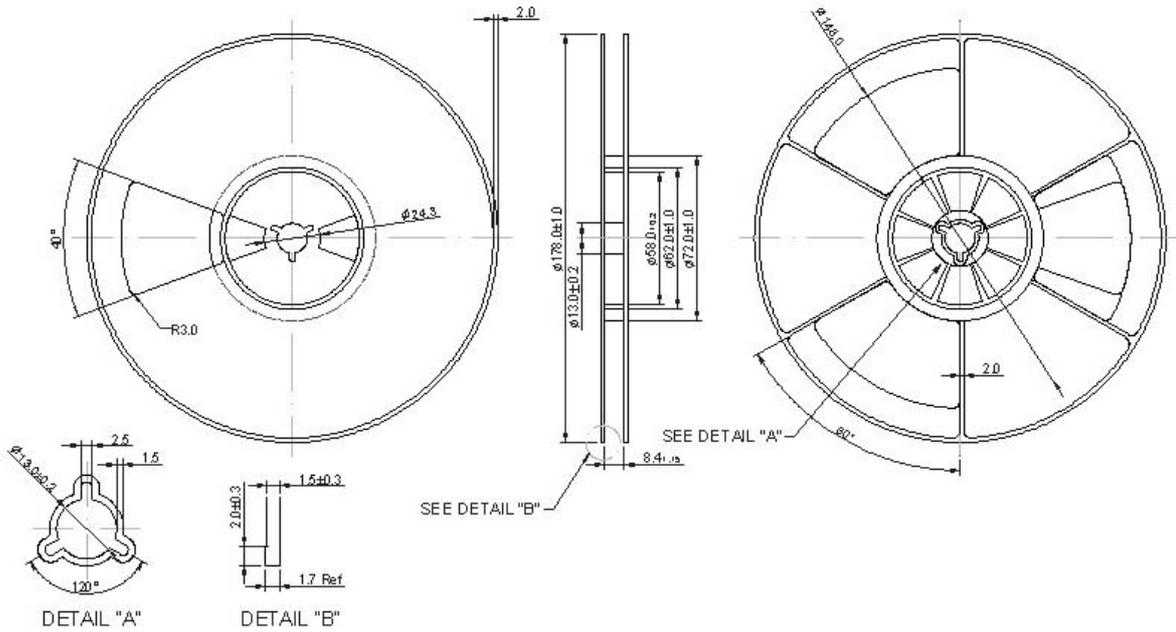
## F. Frequency Characteristics:



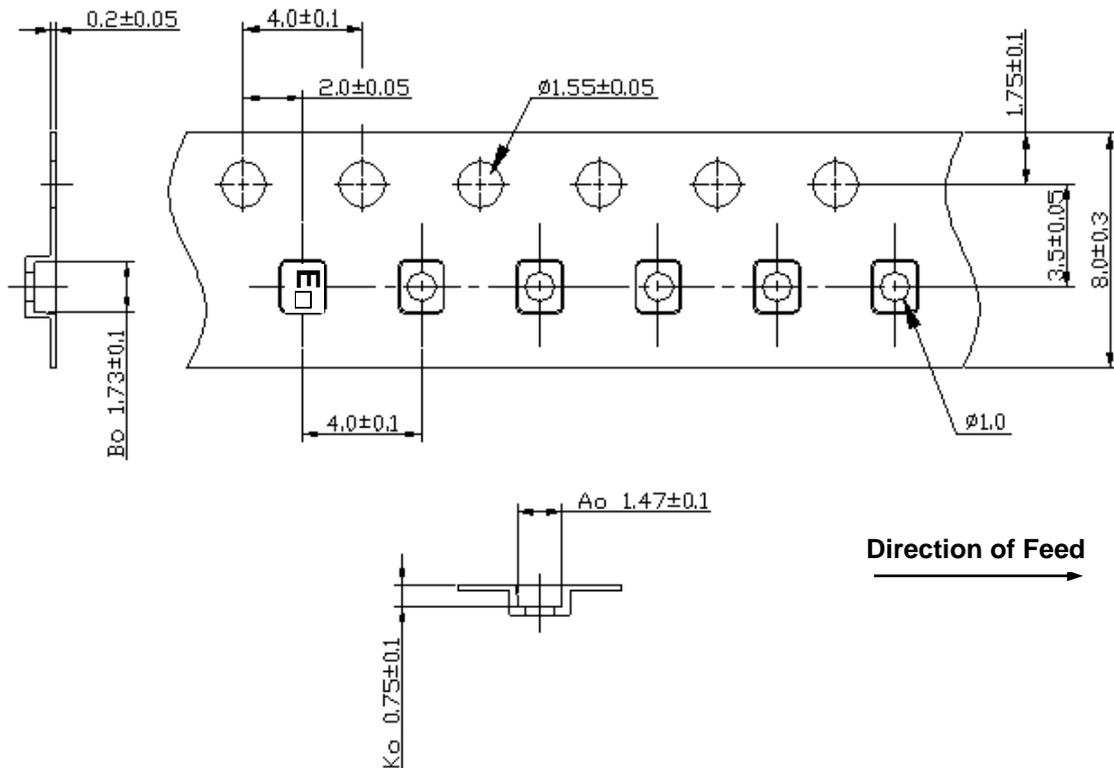
**G. PACKING:**

**1. REEL DIMENSION**

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

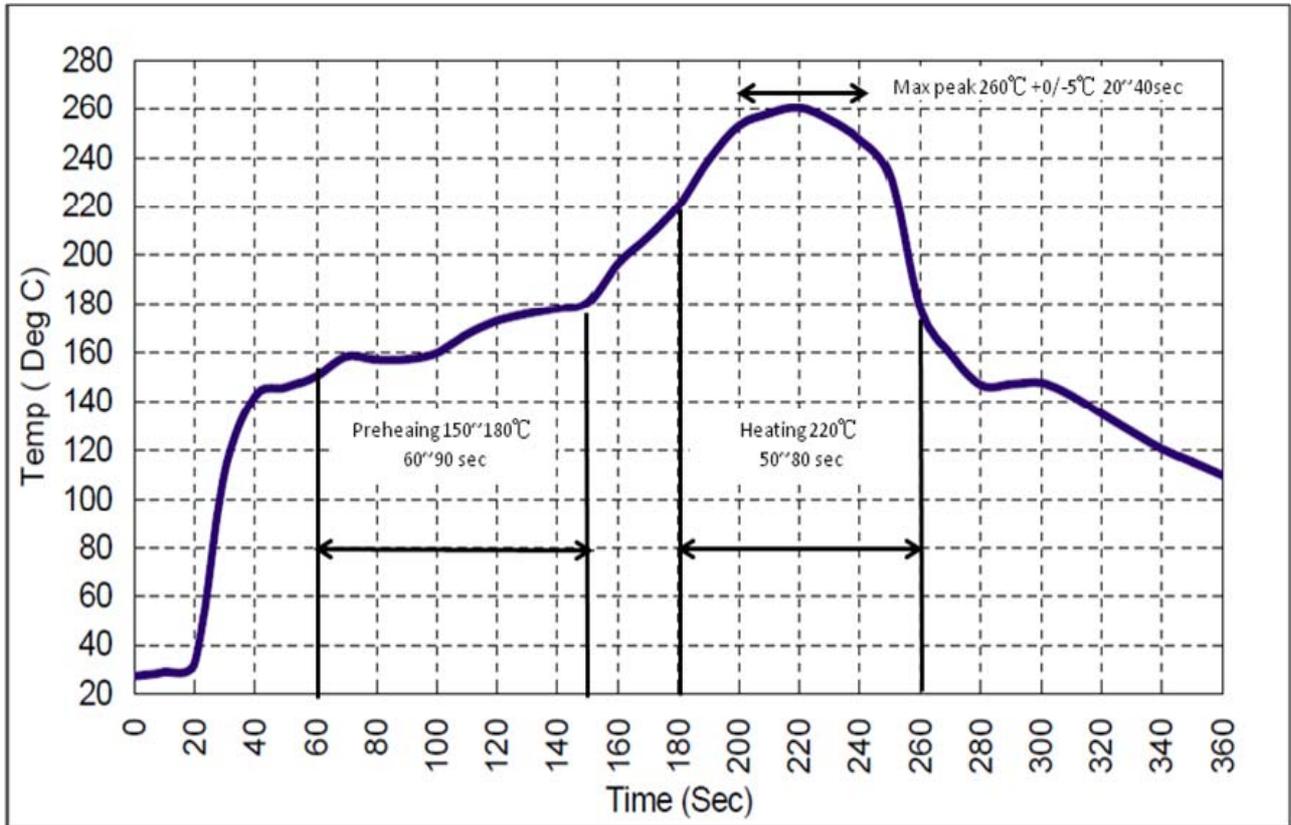


**2. TAPE DIMENSION**



### 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.



Preliminary