



# 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 915 MHz SMD 1.1x0.9 mm (BW=26 MHz)

TST Part No.: TA2294A

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

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

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

Approved 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 Fiter 915 MHz

MODEL NO.: TA2294A

REV. NO.:3.0

### 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 Sensivity Level: Level 3 (MSL3)



Electrostatic Sensitive Device (ESD)

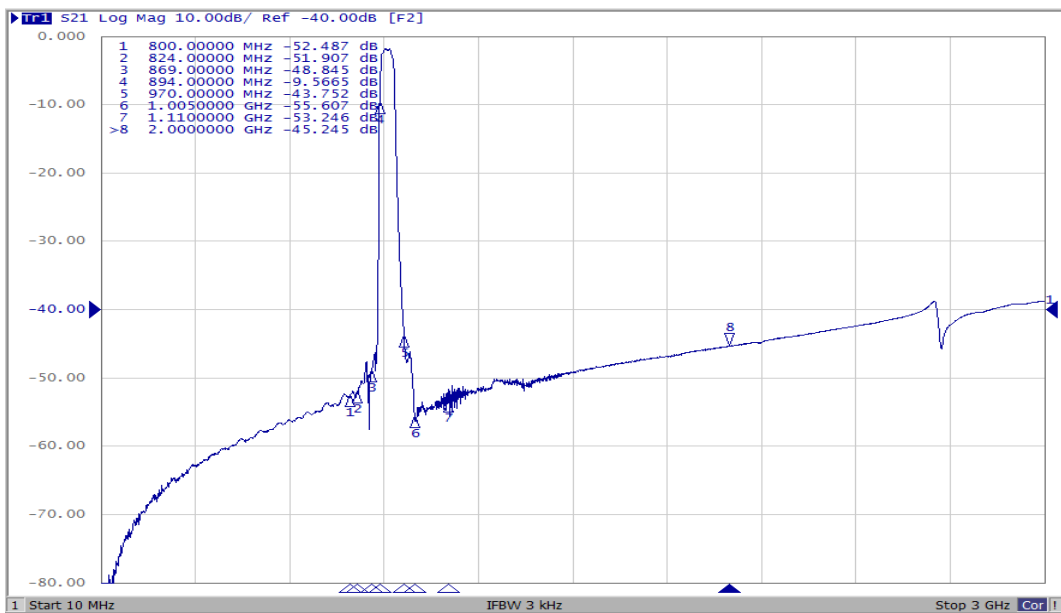
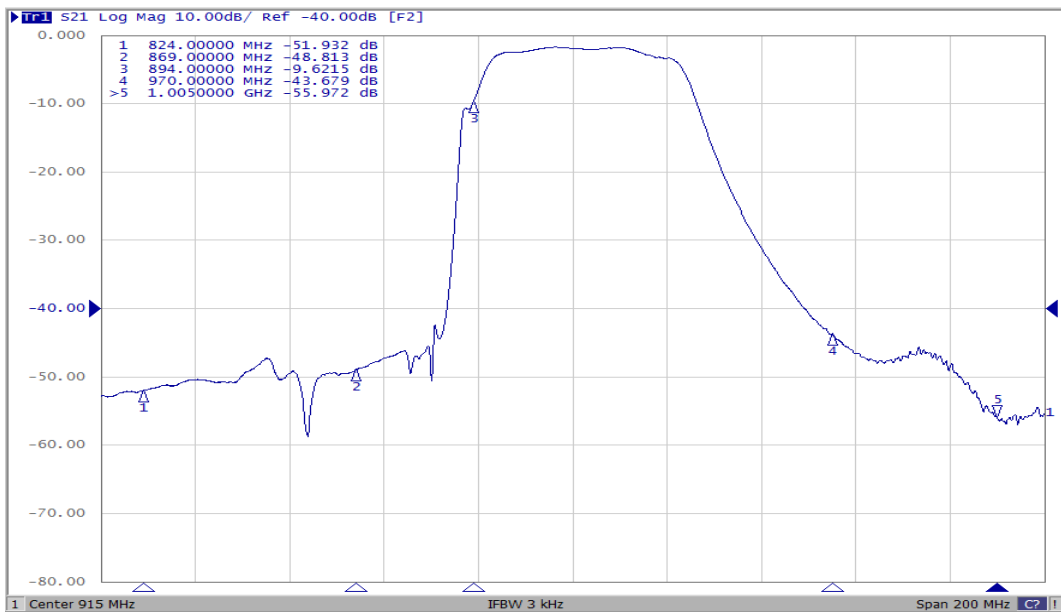
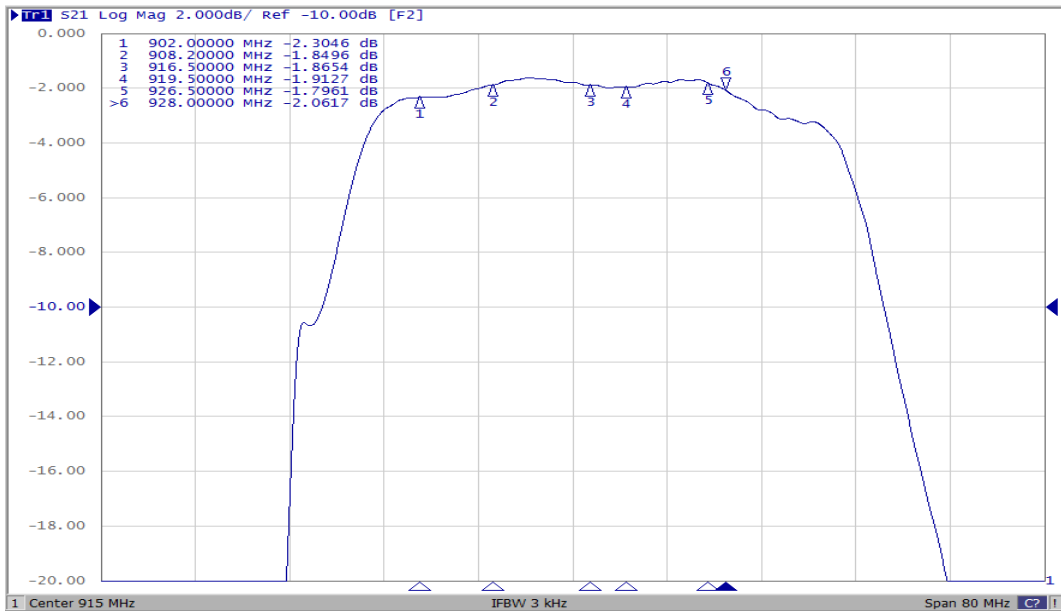
### B. ELECTRICAL CHARACTERISTICS:

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

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

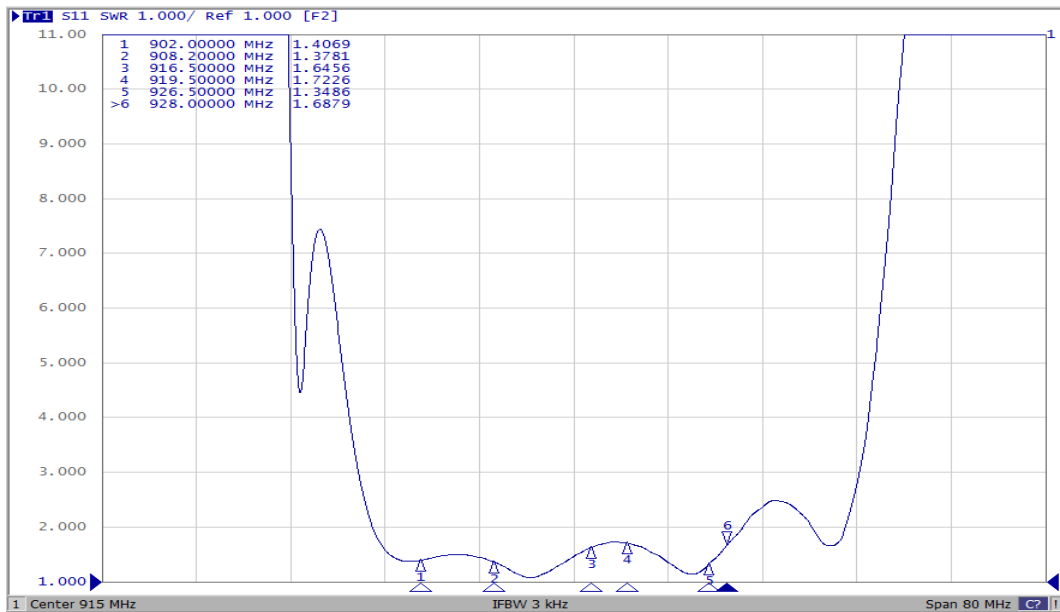
Item	Unit	Min.	Typ.	Max.
<b>Center frequency</b> <b>Fc</b>	MHz	-	915	-
<b>Insertion Loss</b> (902~928 MHz)	dB	-	2.3	3.6
<b>Insertion Loss</b> (908.2~916.5 MHz)	dB	-	1.9	2.5
<b>Insertion Loss</b> (919.5~926.5 MHz)	dB	-	2.0	3.0
<b>Ripple Deviation</b> (902~928 MHz)	dB	-	0.7	2.0
<b>VSWR</b> (902~928 MHz)	-	-	1.8	2.6
<b>Attenuation</b> (Reference level from 0 dB)				
10 ~ 800 MHz	dB	47	52	-
824 ~ 869 MHz	dB	40	47	-
869 ~ 894 MHz	dB	-	9.5	-
970 ~ 1005 MHz	dB	35	43	-
1005 ~ 1110 MHz	dB	45	51	-
1110 ~ 2000 MHz	dB	30	45	-
2000 ~ 3000 MHz	dB	33	38	-
<b>Temperature coefficient of frequency</b>	ppm/k	-	-36	-

### C. FREQUENCY CHARACTERISTICS:

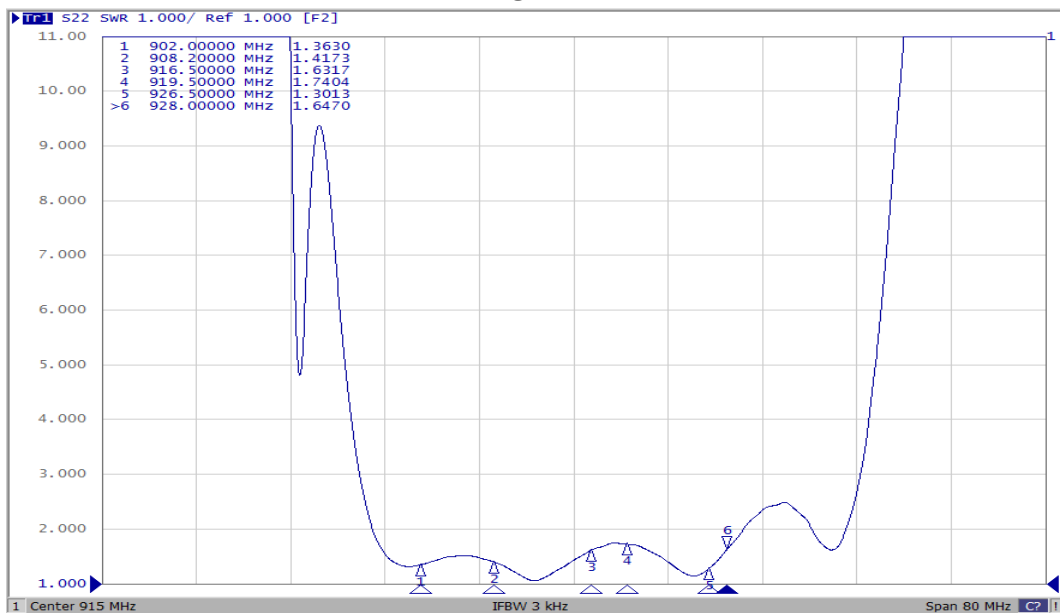


## Reflection Functions:

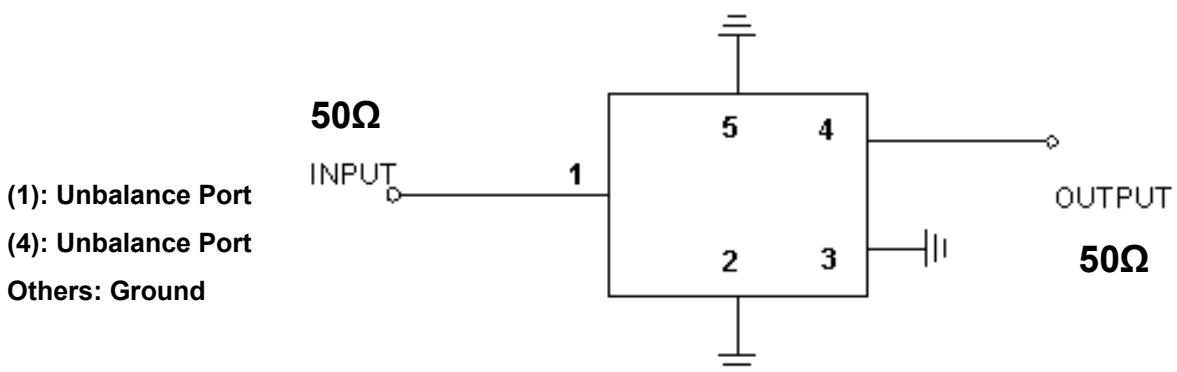
### S11



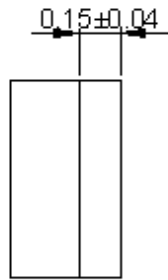
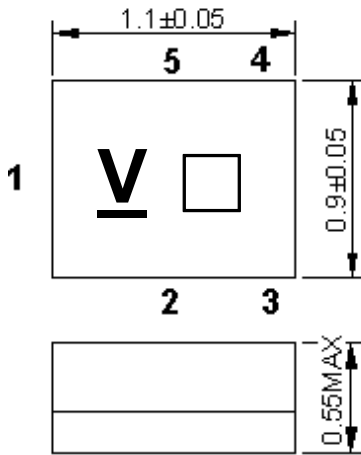
### S22



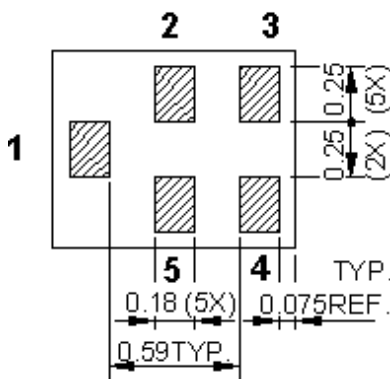
## D. MEASUREMENT CIRCUIT:



**E. OUTLINE DRAWING:**



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

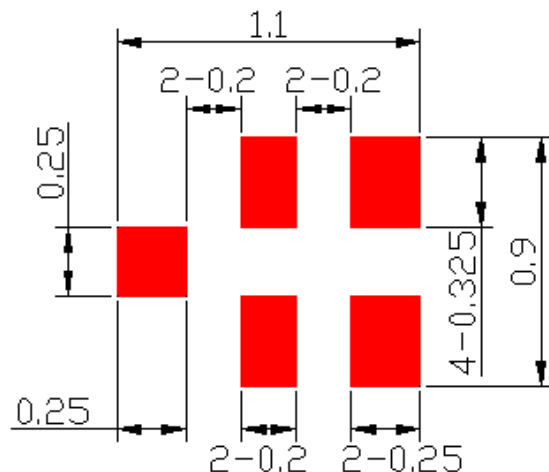


Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

□ : Year/Month Code (Follow the table)

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

**F. PCB Footprint :**

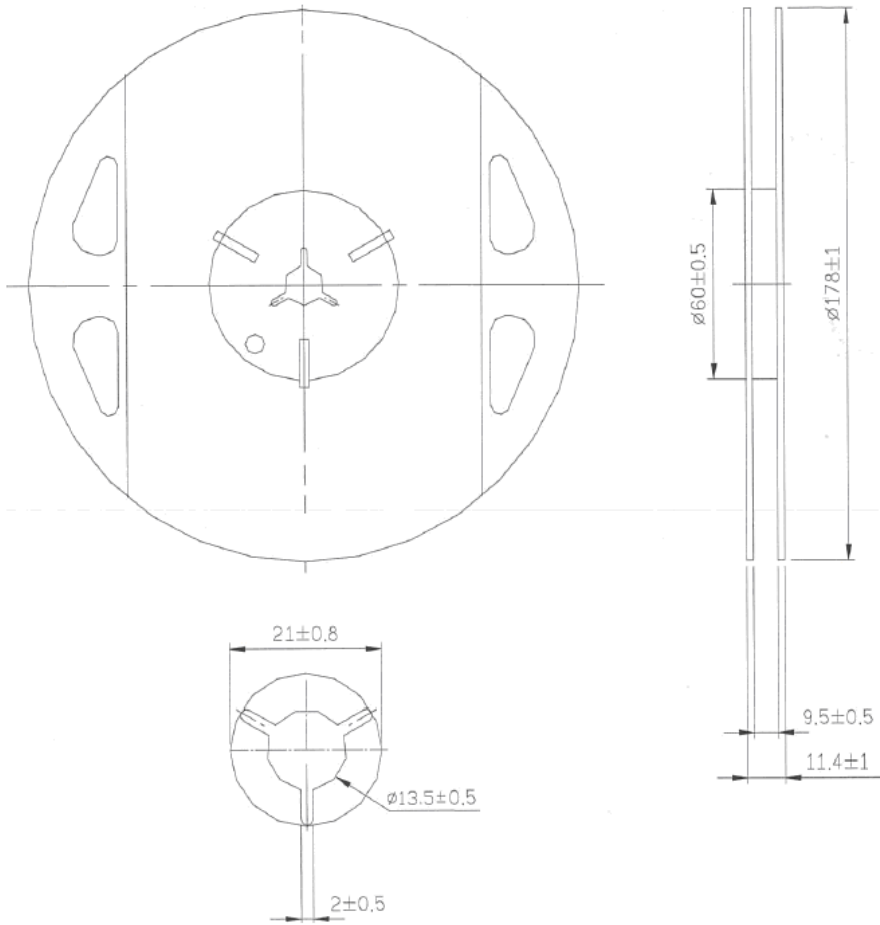


■ : Land Pattern  
 Unit: mm

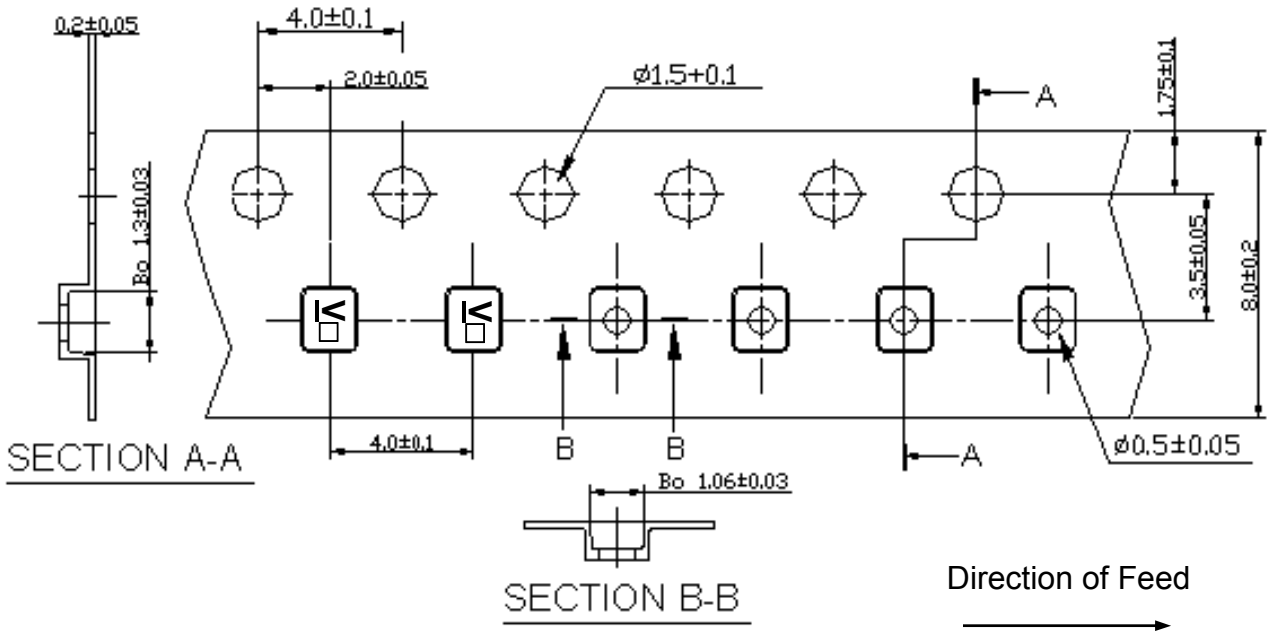
**G. PACKING: (Ref. WI-75M03)**

**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.

