



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 Name: SAW Filter 869 MHz SMD 1.4x1.1 mm (BW=14 MHz)

TST Parts No.: TA2531A

Customer Parts No.: _____

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

Checked by: _____ Hayley Chou *Hayley Chou*

Approval by: _____ Andy Yu *Andy Yu*

Date: _____ 2019/05/21

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 869 MHz

MODEL NO.: TA2531A

REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 17 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)

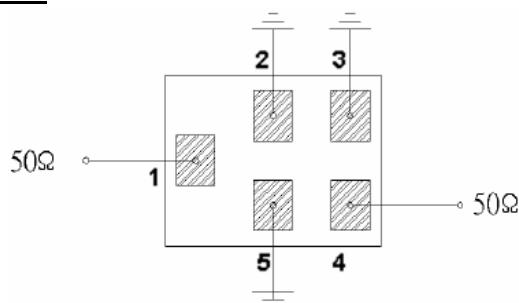
RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Parameters Description	Unit	Min.	Typ.	Max.
Center Frequency Fc	MHz	-	869	-
Insertion Loss (862~876 MHz) IL	dB	-	2.4	3.2
Amplitude Ripple (862~876 MHz)	dB	-	0.8	1.8
VSWR (862~876 MHz)	-	-	2.0	2.4
Attenuation (Reference level from 0 dB)				
10 ~ 800 MHz	dB	40	49	-
800 ~ 838 MHz	dB	34	44	-
838 ~ 849 MHz	dB	18	29	-
890 ~ 894 MHz	dB	18	27	-
894 ~ 906 MHz	dB	22	31	-
906 ~ 960 MHz	dB	40	49	-
960 ~ 2500 MHz	dB	26	35	-
2500 ~ 2700 MHz	dB	24	34	-
2700 ~ 6000 MHz	dB	18	25	-
Temperature coefficient of frequency	ppm/k	-36 typ.		

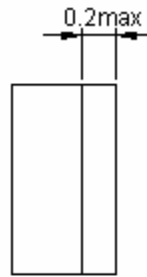
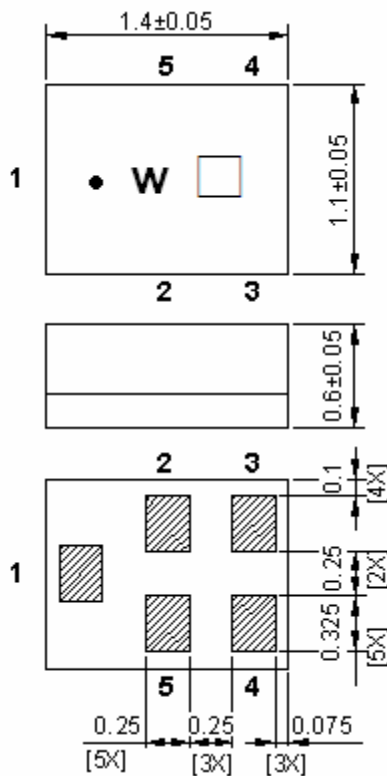
C. MEASUREMENT CIRCUIT:



TAI-SAW TECHNOLOGY CO., LTD.

TST DCC
Release document

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

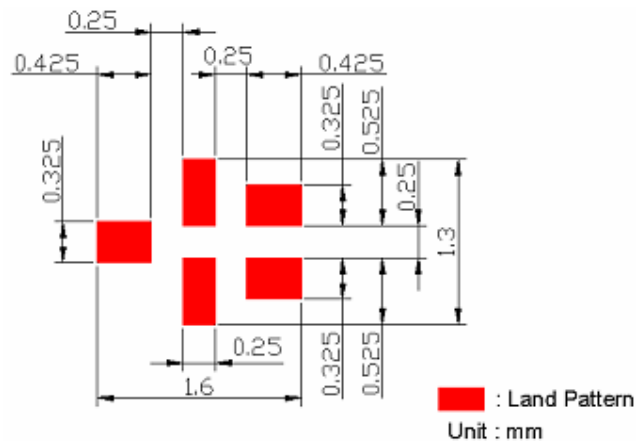
Index: ●

Marking name: w (small letter)

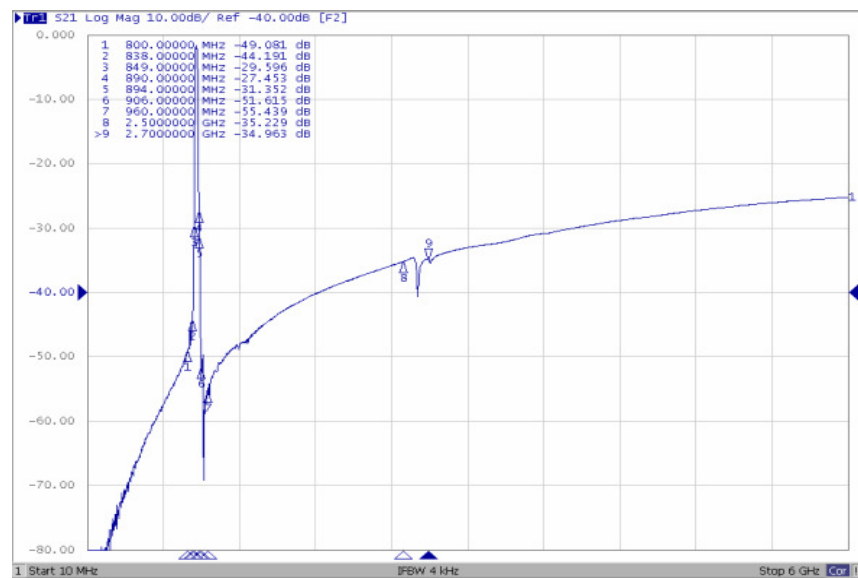
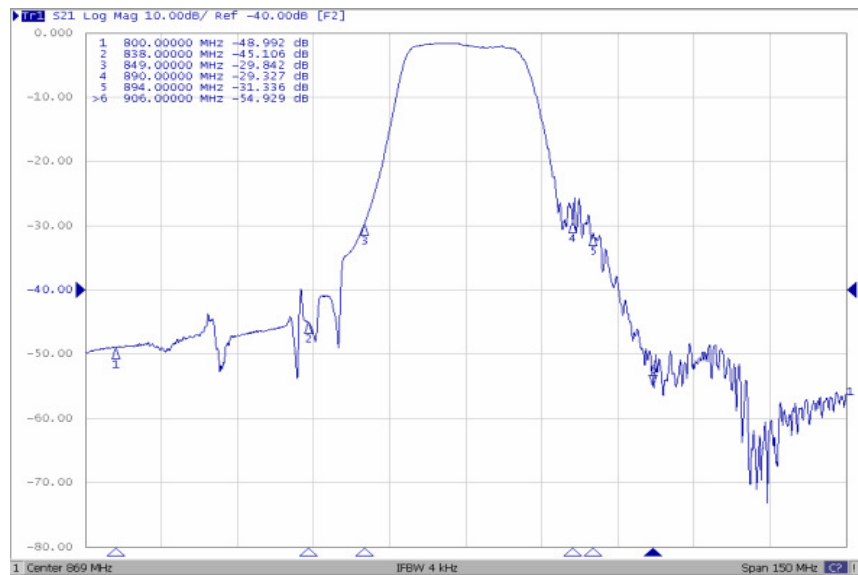
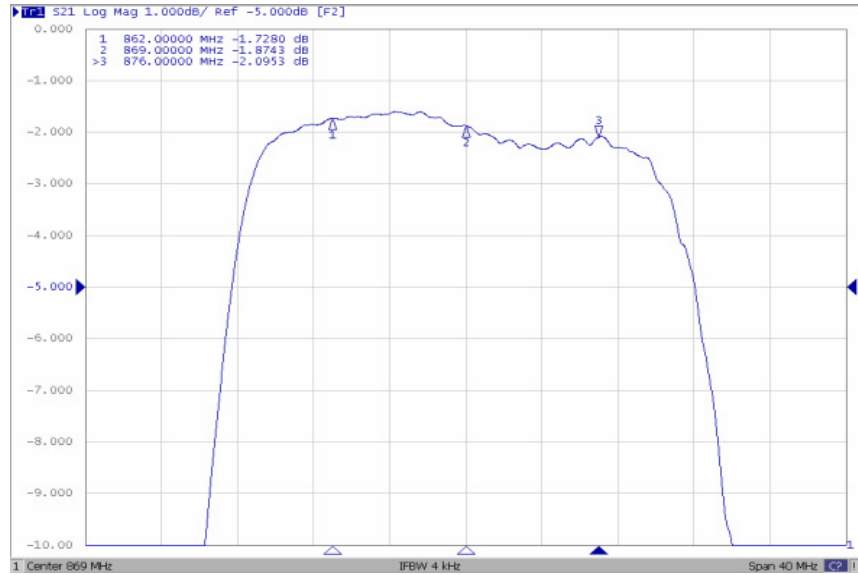
□ : Year/Month Code (Follow the table)

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	A	B	C	D	E	F	G	H	J	K	L	M
2018	N	P	Q	R	S	T	U	V	W	X	Y	Z
2019	a	b	c	d	e	f	g	h	j	k	l	m
2020	n	p	q	r	s	t	u	v	w	x	y	z

E. PCB Footprint:

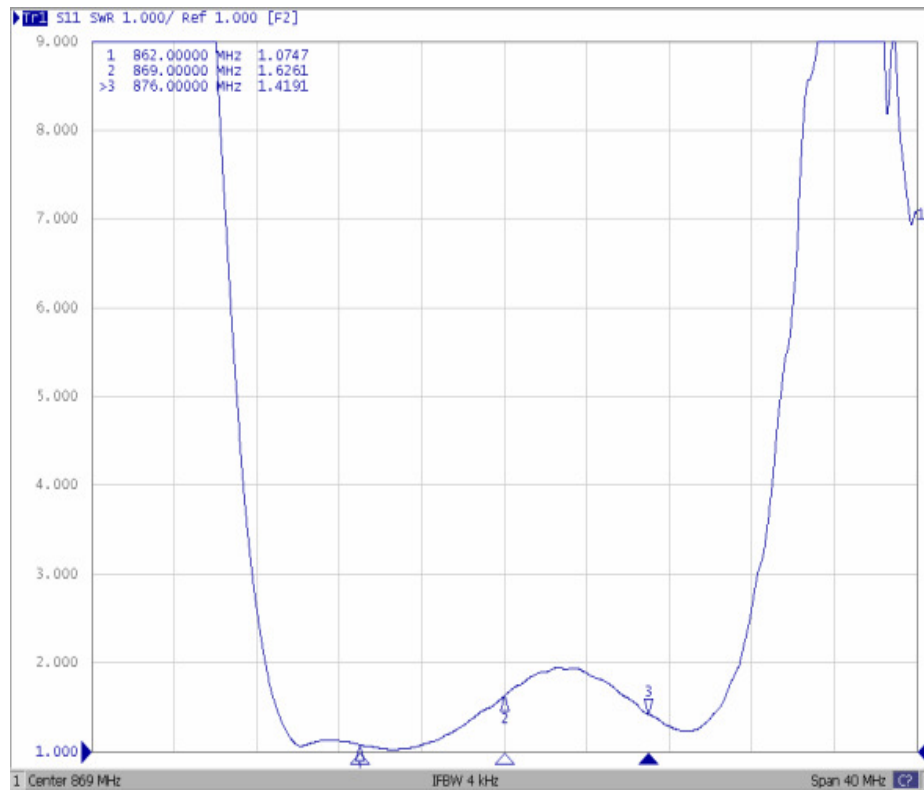


F. FREQUENCY CHARACTERISTICS:

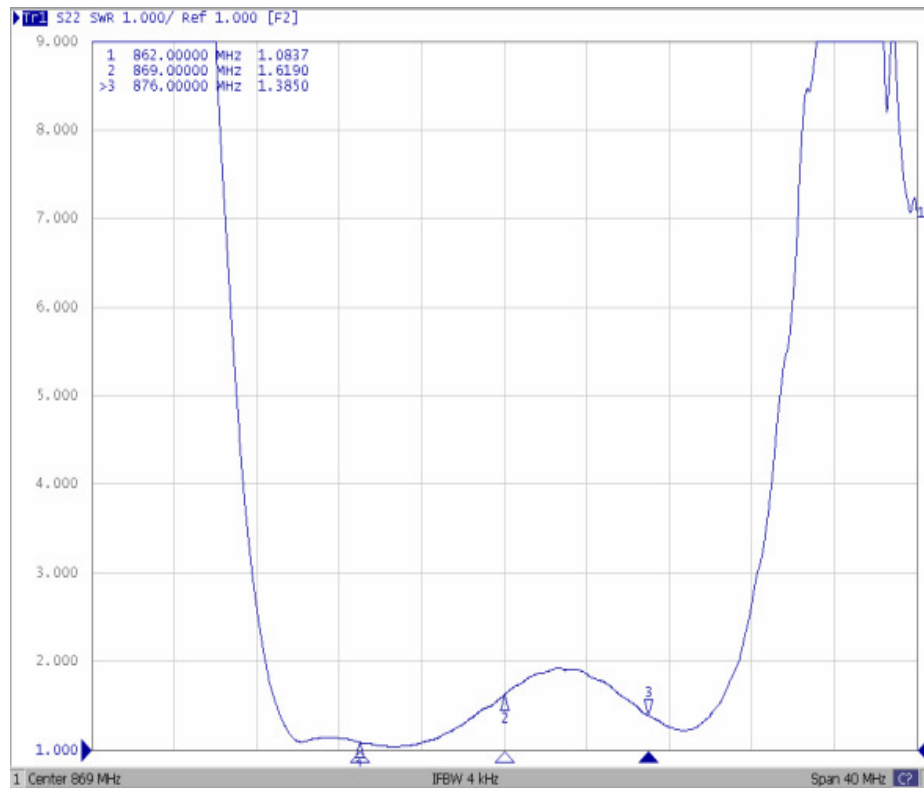


Reflection Functions:

S11



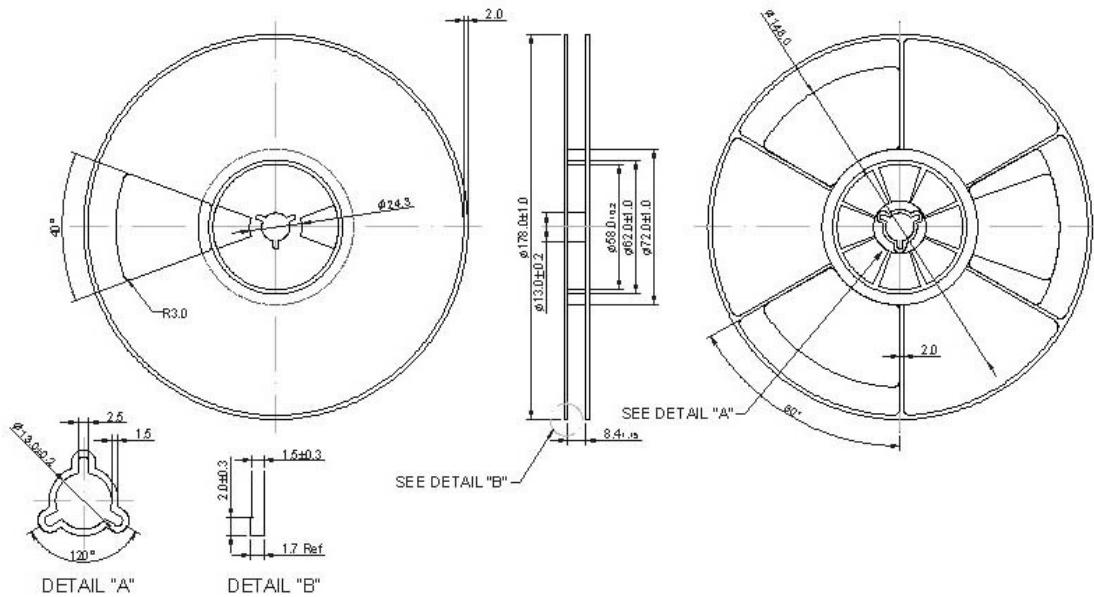
S22



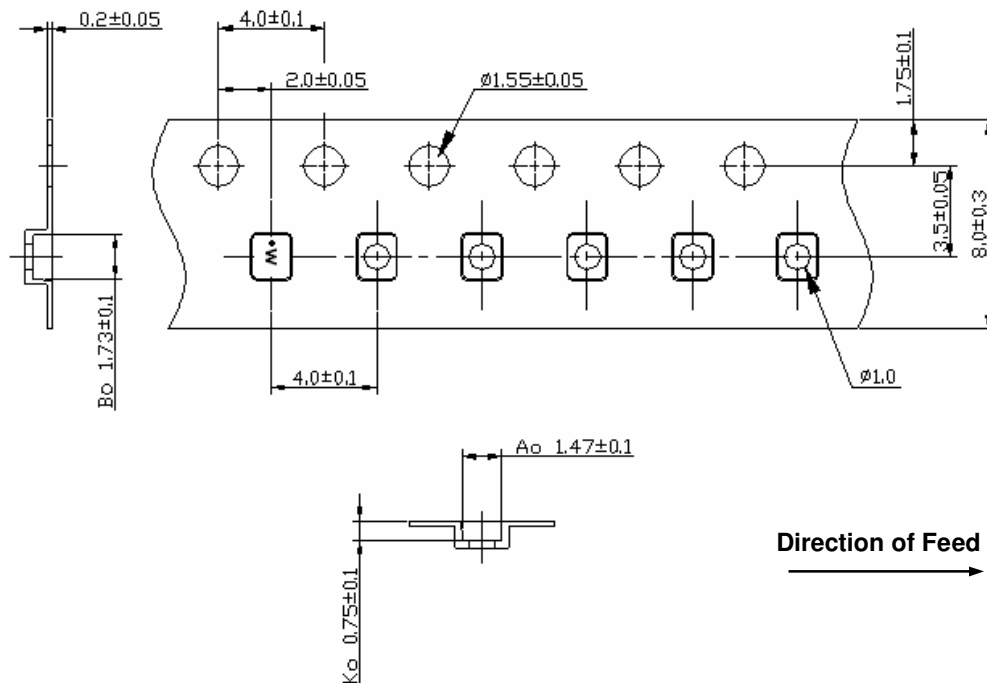
G. PACKING: (Ref. WI-75M03)

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.

