

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	831.5 MHz SMD 3.0×3.0 mm (BW=35 MHz)
TST Part No.: TA1494B	
Customer Part No.:	
Customer signature required	
Company:	
Division:	
Approved by :	
Date:	
Checked by: David C	
Checked by: David C Approved by: Andy	Yu Andy In
Date: 2020/06/	

- 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.
- 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 831.5 MHz

MODEL NO.: TA1494B REV. NO.:1

A. MAXIMUM RATING:

1.Input Power Level: 15 dB_m

2.DC voltage: 5 V

3. Operating Temperature: -40°C to +85°C

4.Storage Temperature: -40°C to +85°C

5. Moisture Sensitivity Level: Level 1(MSL1)

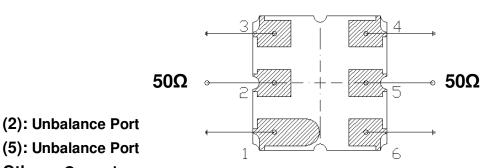


Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

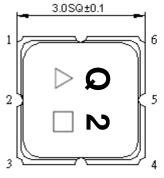
Item	Unit	Min.	Тур.	Max.				
Center frequency Fc	MHz	-	831.5	-				
Insertion Loss (814~849 MHz) IL	dB	-	3.0	4.5				
Amplitude Ripple (814~849 MHz)	dB	-	1.1	2.8				
VSWR (814~849 MHz)	-	-	2.5	2.6				
Attenuation (Reference level from 0 dB)								
DC ~ 794 MHz	dB	30	46	-				
869 ~ 900 MHz	dB	18	31	-				
900 ~ 2300 MHz	dB	25	33	-				
2300 ~ 2600 MHz	dB	25	30	-				
2600 ~ 2800 MHz	dB	20	29	-				
2800 ~ 3200 MHz	dB	5	26	-				
3200 ~ 6000 MHz	dB	2	4	-				
Temperature Coefficient of Frequency	Ppm/°C	-	-36	-				

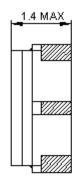
C. MEASUREMENT CIRCUIT:



Others: Ground

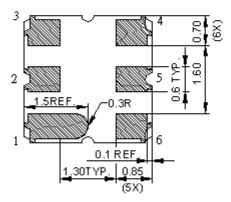
D. OUTLINE DRAWING:







Not Specified Tolerance: +/-0.15 mm



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

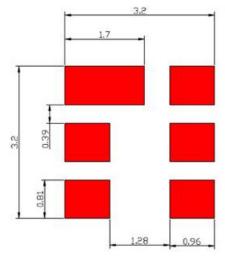
△: Year Code (2020->0, 2021->1, ..., 2029->9, 2030->0)

☐ : Date Code

Date Code Table:

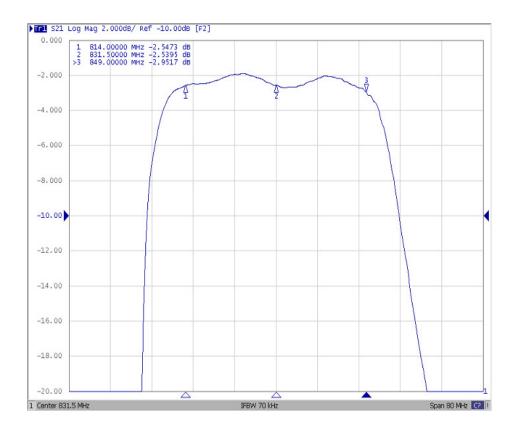
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
Α	В	С	D	E	F	G	Н	.1	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	0	Р	Q	R	S	Т	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
а	b	С	d	9	f	g	h	i	j	k	L	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	0	р	q	r	s	t	u	V	w	×	У	Z

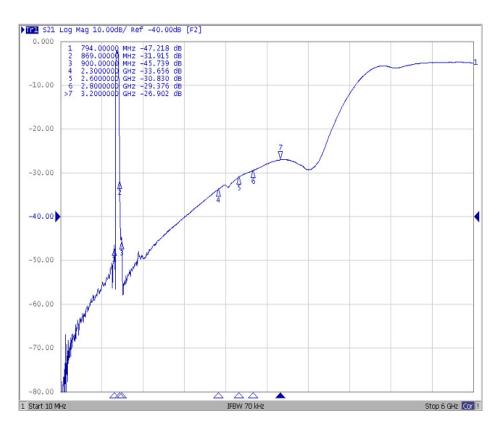
E. PCB Footprint:



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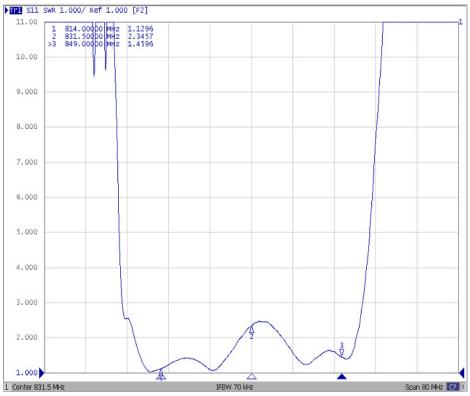
F. Frequency Characteristics:



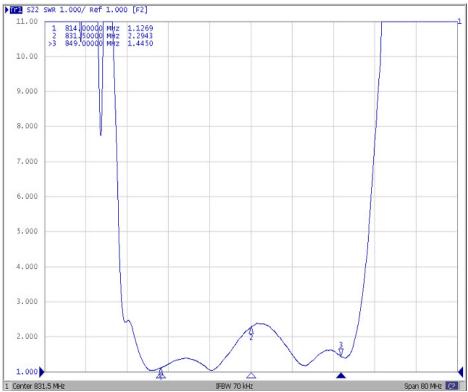


Reflection Functions:





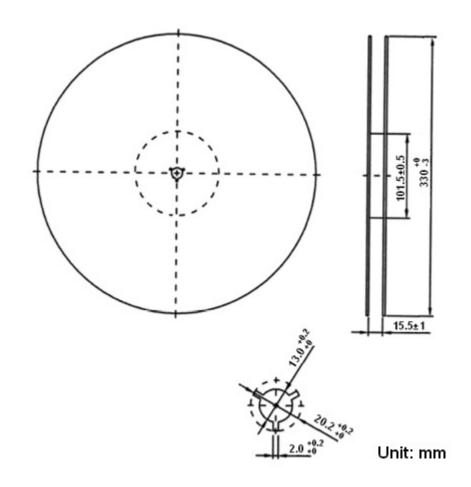
S22



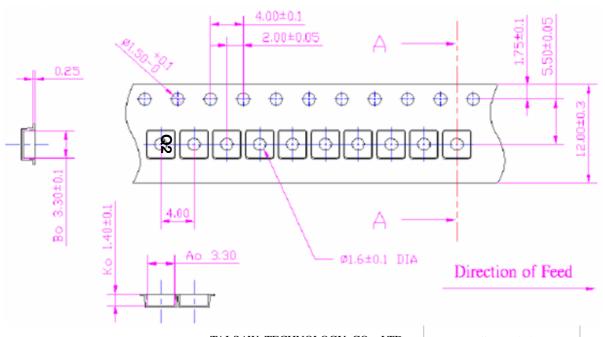
G. PACKING: (Ref. WI-75M03)

1. REEL DIMENSION

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



2. TAPE DIMENSION



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TST DCC
Release document

H. Recommended Reflow Profile:

- 1. Preheating shall be fixed at $150 \sim 180$ °C for $60 \sim 90$ 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.

