

TAI-SAW TECHNOLOGY CO., LTD. No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District, Taoyuan, 324, Taiwan, R.O.C. TEL: 886-3-4690038 FAX: 886-3-4697532

E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Product Specifications Approval Sheet

Product Name: SAW Filter 866.5 MHz SMD 3.0×3.0 mm (BW=7 MHz
TST Parts No.: TA0801B
Customer Parts No.:
Customer signature required
Company:
Division:
Approved by :
Date:
Checked by: Hayley Chou Hayley Chou
Approval by: Andy Yu Andy Yu Andy Yu
Date: 2020/07/09

- 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 866.5 MHz

MODEL NO.: TA0801B REV. NO.:3.0

A. MAXIMUM RATING:

1. Input Power Level: 18 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 1 (MSL 1)

RoHS Compliant Lead-free soldering

Electrostatic Sensitive Device (ESD)

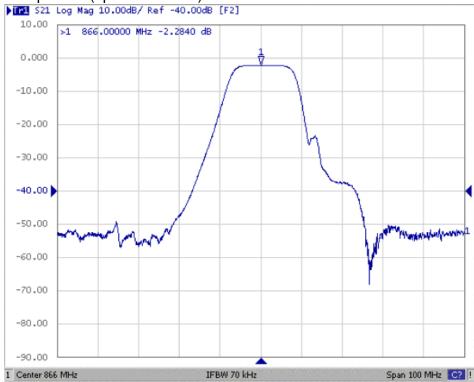
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance: Zs=50 Ω Terminating load impedance: $Z_L=50 \Omega$

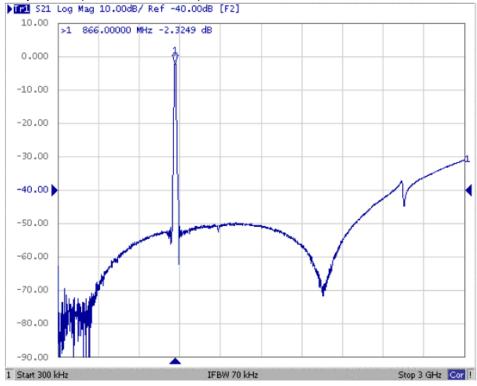
Item	Unit	Min.	Тур.	Max.						
Center Frequency	Fo	MHz	-	866.5	-					
Insertion Loss at Fc	Amax	dB	-	2.3	3.0					
Ripple (863~870 MHz)		dB	-	0.3	1.3					
VSWR (863~870 MHz)		-	-	1.2	2.0					
Attenuation (Reference level from Amax)										
10 ~ 830 MHz		dB	45	49	-					
830 ~ 850 MHz		dB	22	35	-					
885 ~ 905 MHz		dB	27	35	-					
905 ~ 950 MHz		dB	45	49	-					
950 ~ 1500 MHz		dB	40 47		-					
1500 ~ 3000 MHz		dB	25	28	-					
Temperature Coefficient of Frequence	ppm/℃	-36								

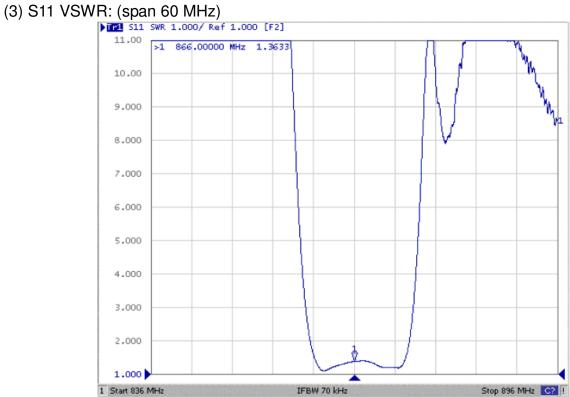
C. FREQUENCY CHARACTERISTIC:

(1) Wide band response: (span 100 MHz)

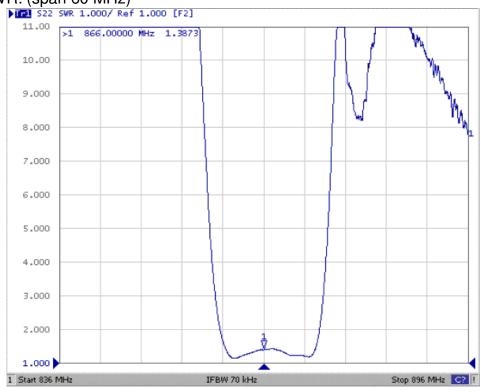


(2) Full band response: (300 kHz~3 GHz)



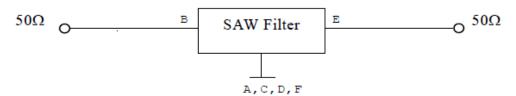


(4) S22 VSWR: (span 60 MHz)

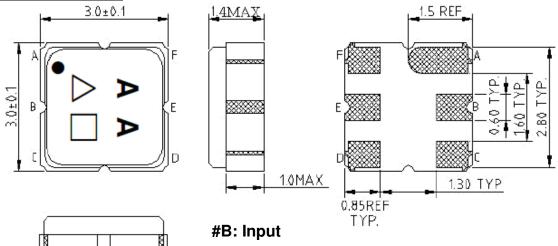


D. MEASUREMENT CIRCUIT:

HP Network analyzer



E. OUTLINE DRAWING:



#E: Output

#A, C, D, F: Ground

All tolerances are +/-0.15 mm unless otherwise specified.

Unit: mm

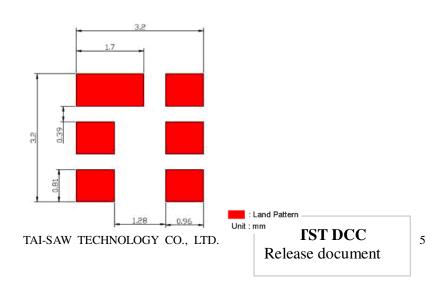
△: Year Code (2019→9, 2020→0, 2021→1... 2029→9...)

☐: Date Code (Follow the table from planner each year)

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	T	U	V	W	Х	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
а	b	С	d	Θ	f	g	h	i	j	k	- 1	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	0	р	q	r	S	t	u	٧	W	Х	У	Z

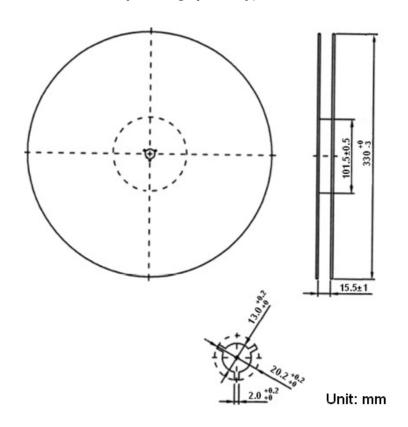
F. PCB FOOTPRINT:



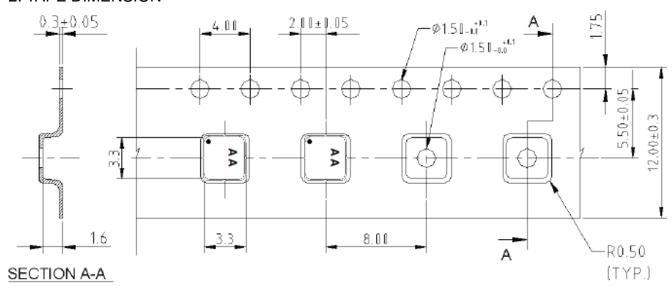
G. PACKING: (Ref. WI-75M03)

1. REEL DIMENSION

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



2. TAPE DIMENSION



Direction of Feed

Unit: mm

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.

