



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Name: SAW Filter 866.5MHz SMD 3.0x3.0mm

TST Parts No.:TA0801A

Customer Parts No.: _____

Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Hayley Chou *Hayley Chou*

Approval by: _____ Andy Yu *Andy Yu*

Date: _____ 2018/06/25

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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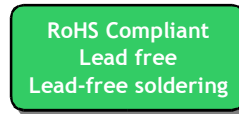
SAW Filter 866.5 MHz

MODEL NO.: TA0801A

REV. NO.:4.0

A. MAXIMUM RATING:

1. Input Power Level: 18 dB_m
2. DC voltage: 3 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitive Level : Level 1(MSL1)



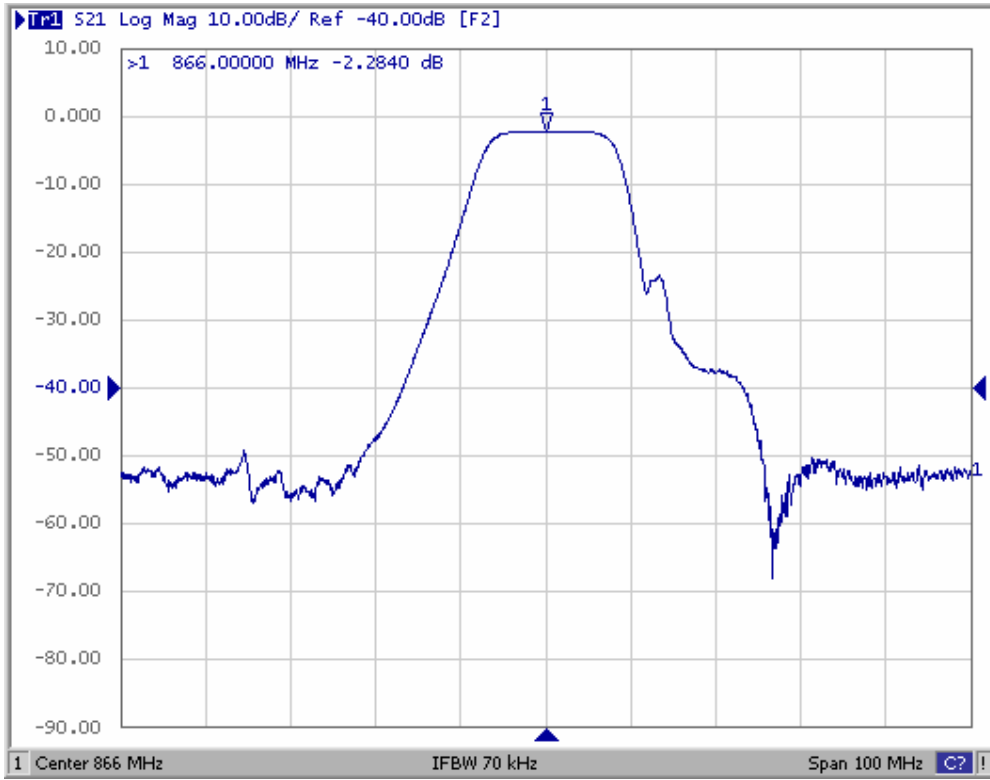
Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

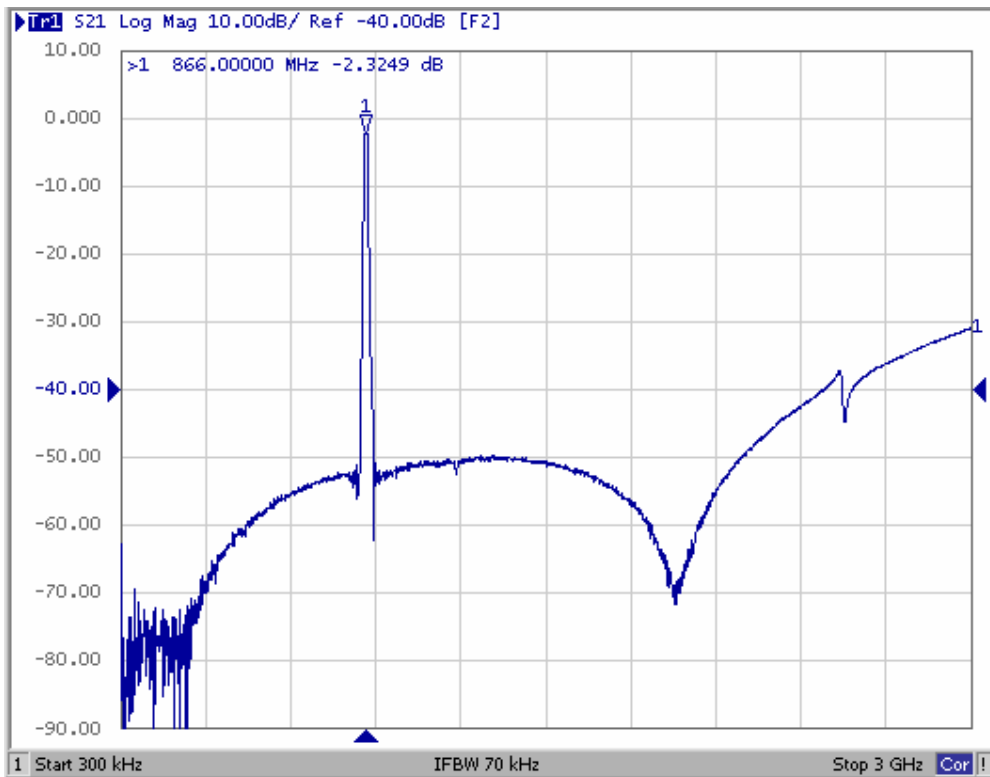
Item	Unit	Min.	Type.	Max.
Center frequency F_o	MHz	-	866.5	-
Insertion loss at Fc A_{max}	dB	-	2.3	3.0
Ripple (863~870 MHz)	dB	-	0.3	1.3
VSWR (863~870 MHz)		-	1.2	2.0
Attenuation (Reference level from A _{max})				
10 ~ 830 MHz	dB	45	49	-
830 ~ 850 MHz	dB	22	35	-
885 ~ 905 MHz	dB	27	35	-
905 ~ 950 MHz	dB	45	49	-
950 ~ 1500 MHz	dB	40	47	
1500 ~ 3000 MHz	dB	25	28	
Temperature coefficient of frequency TCf	-36 ppm / °C			

C. Frequency Characteristics :

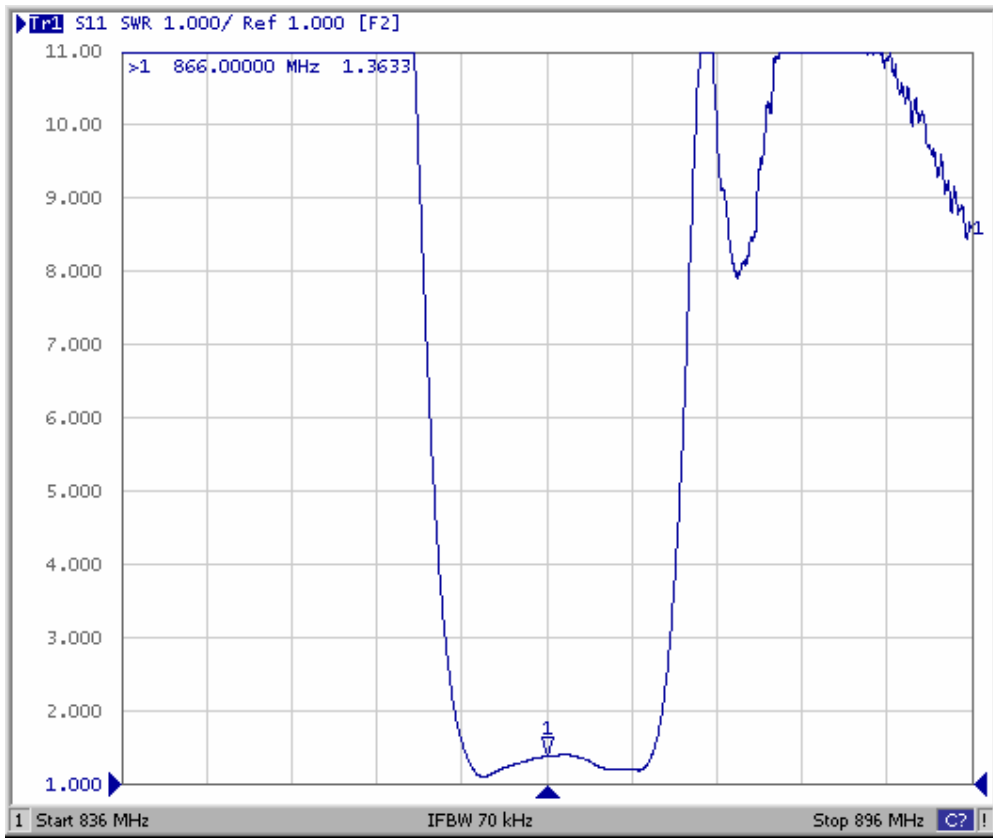
(1) wide band Response:(span 100MHz)



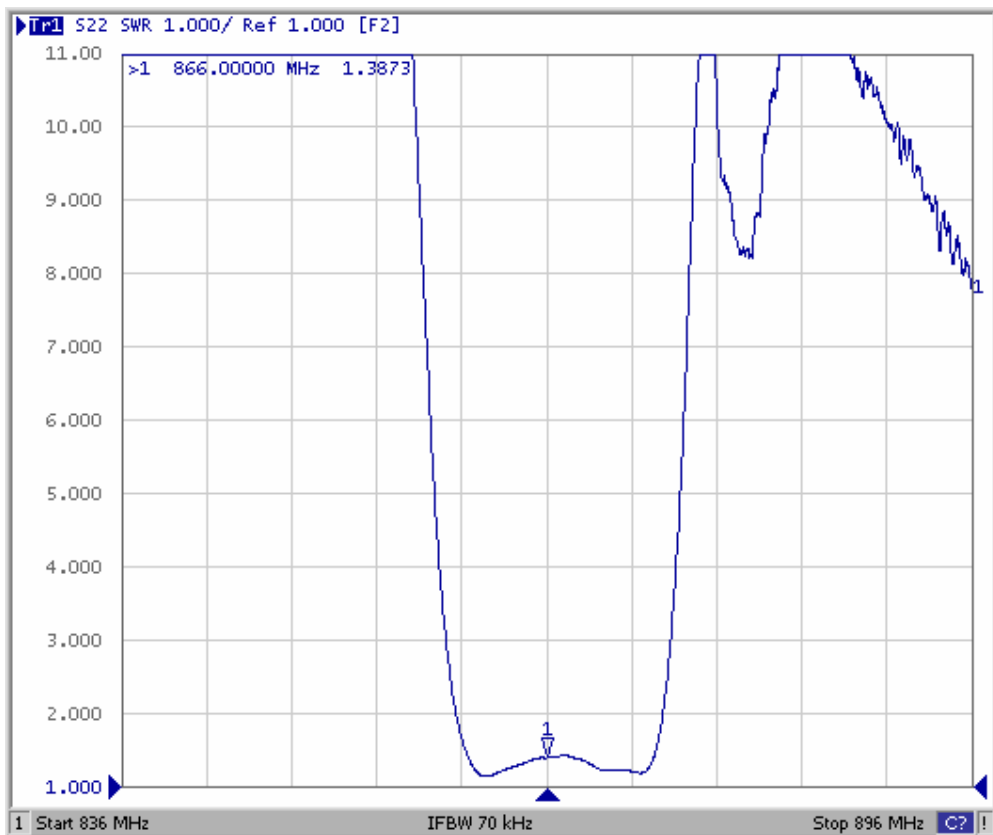
(2) wide band Response:(300k ~ 3GHz)



(3) S11 VSWR Variation: (span 60MHz)

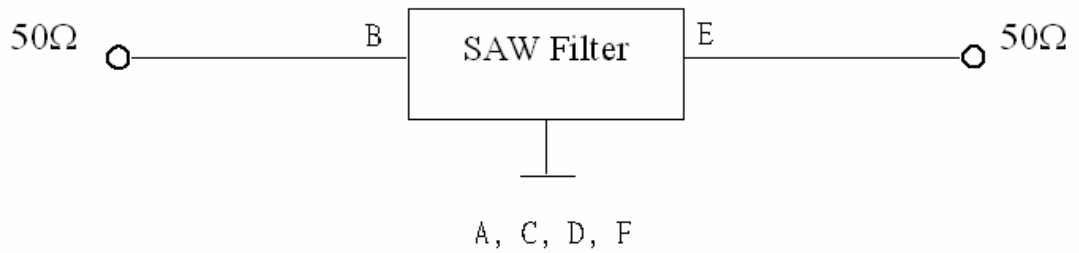


(4) S22 VSWR Variation: (span 60MHz)

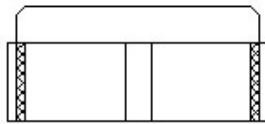
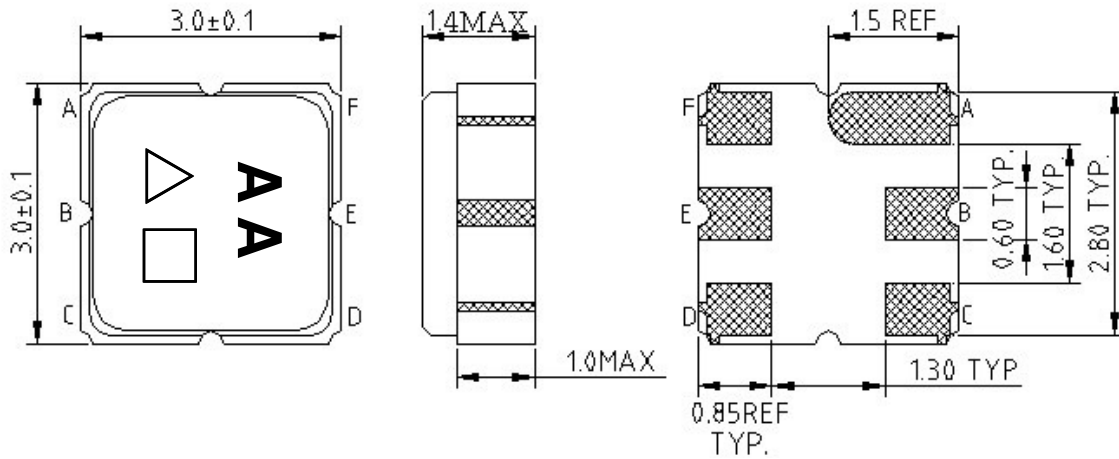


D. MEASUREMENT CIRCUIT:

HP Network analyzer



E. OUTLINE DRAWING:



#B: Input

#E: Output

#A, C, D, F: Ground

△: Year code (ex 2008→8)

□: Date code

Unit: mm

□ Data code : See the table

WK	01	02	...	26	27	28	...	52
Code	A	B	...	Z	a	b	...	z

△ Year code : See the table

Year	2008	2009	2010	2011	...	2019	2020
Code	8	9	0	1	...	9	0

F. PCB Footprint:

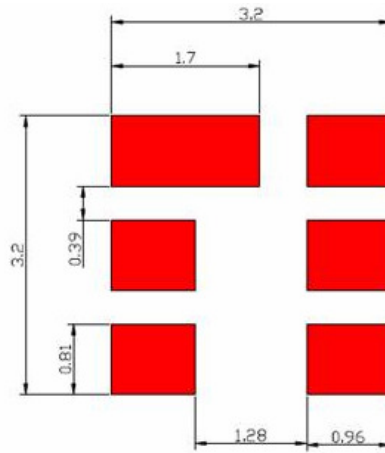
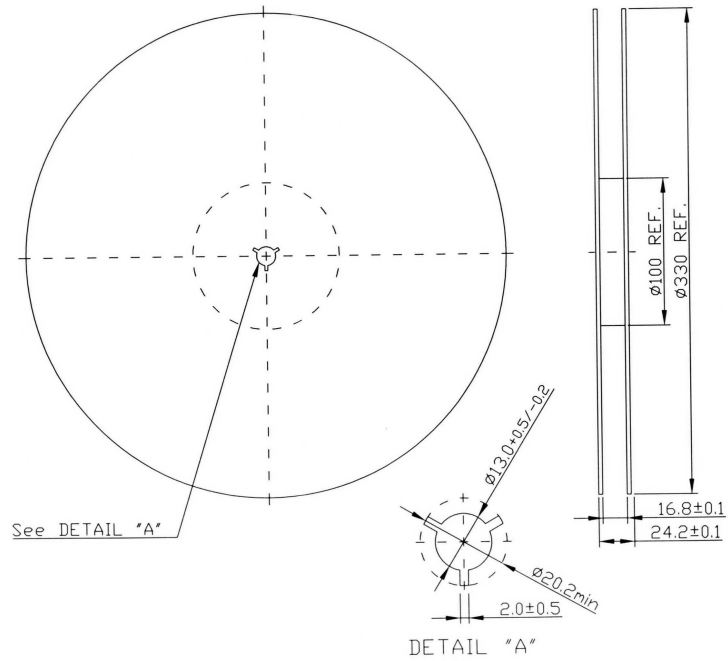


Fig.3 Desirable land area(in mm)

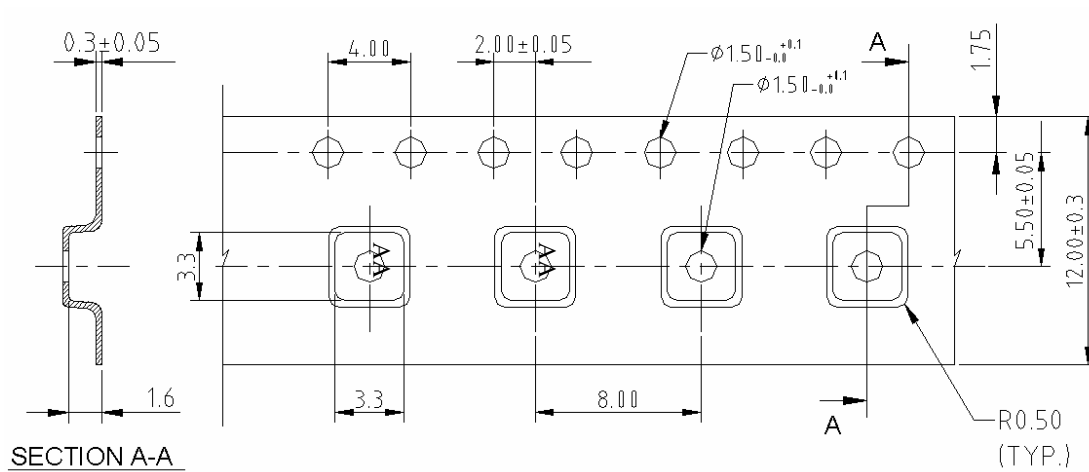
G. PACKING:

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 $\pm 5^\circ\text{C}$ peak (20~40sec).
4. Time: 2 times.

