



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

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

Product Specifications Approval Sheet

Product Description: SAW Filter 866.5 MHz SMD 3.0x3.0 mm (BW=7 MHz)

TST Part No.: TA1941A (This part is is compliant with AEC-Q200)

Customer Part No.: _____

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

Checked by: _____ Michael Yang *Michael*

Approval by: _____ Bob Chau *Bob Chau*

Date: _____ 2016/07/15

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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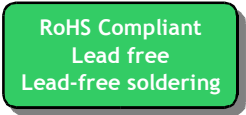
SAW Filter 866.5 MHz

MODEL NO.: TA1941A

REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 15 dBm
2. DC Voltage : 0 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C



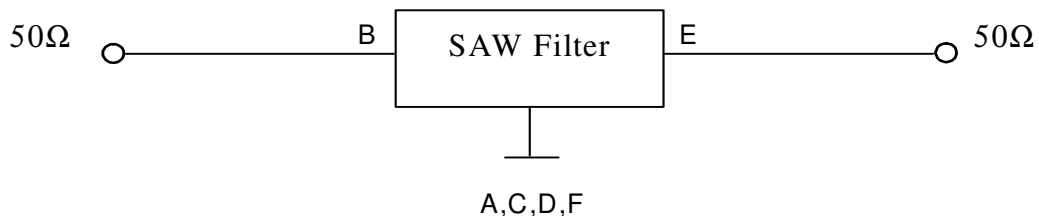
Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

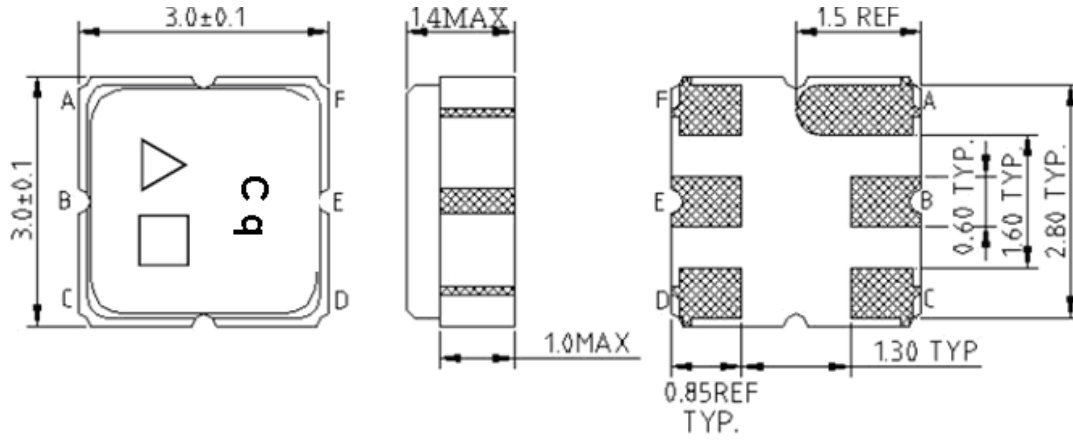
Item	Unit	Min	Type.	Max
Center Frequency Fc	MHz	-	866.5	-
Insertion Loss (863~870 MHz) IL	dB		3.0	3.8
Amplitude ripple (863~870 MHz)	dB		1.5	2.0
VSWR (863~870 MHz)	dB		1.8	2.2
Attenuation (Reference level from 0 dB)				
10 ~ 830 MHz	dB	40.	45	
830 ~ 845 MHz	dB	32	37	
880 ~ 884 MHz	dB	20	25	
884 ~ 887 MHz	dB	36	41	
887 ~ 965 MHz	dB	45	50	
965 ~ 2000 MHz	dB	45	50	

C. MEASUREMENT CIRCUIT:

HP Network analyzer



D. OUTLINE DRAWING:



- #B: Input
- #E: Output
- # A.C.D.F Ground
- △:Year code (ex 2008→8)
- : Date code
- Unit: mm

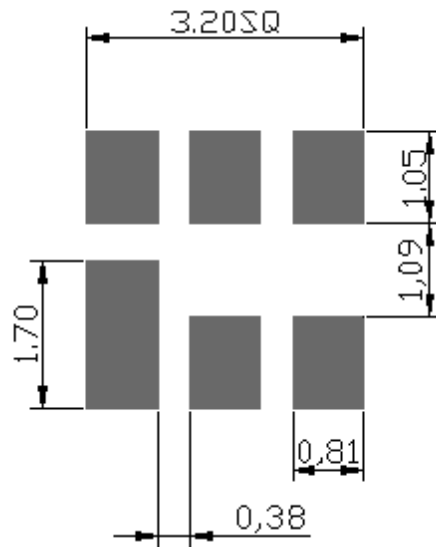
Data code : See the table

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

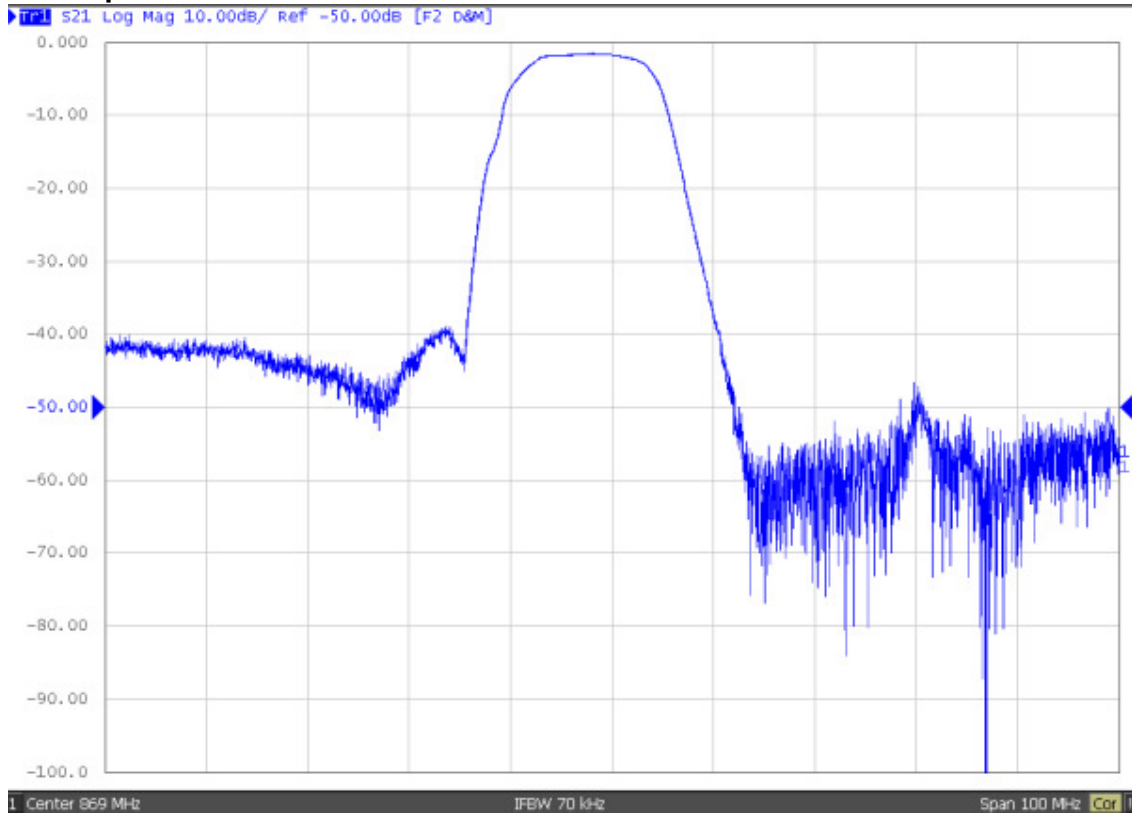
△ Year code : See the table

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

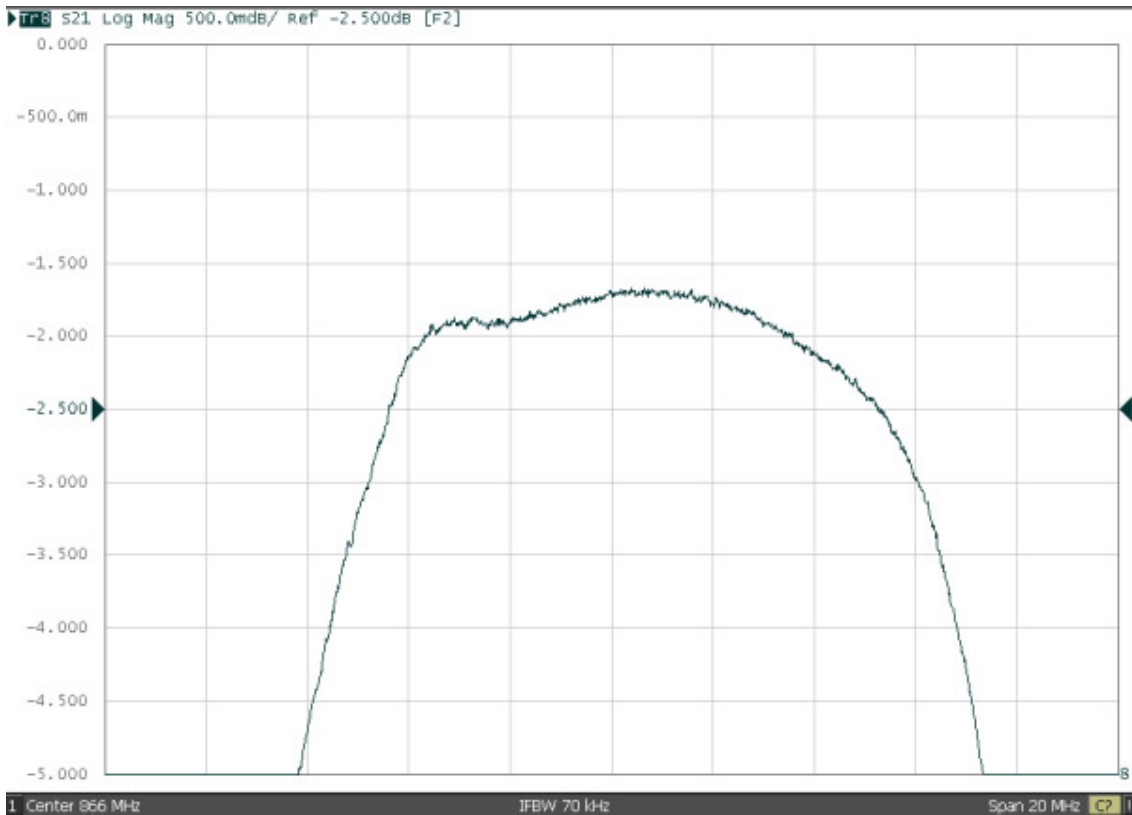
E. PCB Footprint:



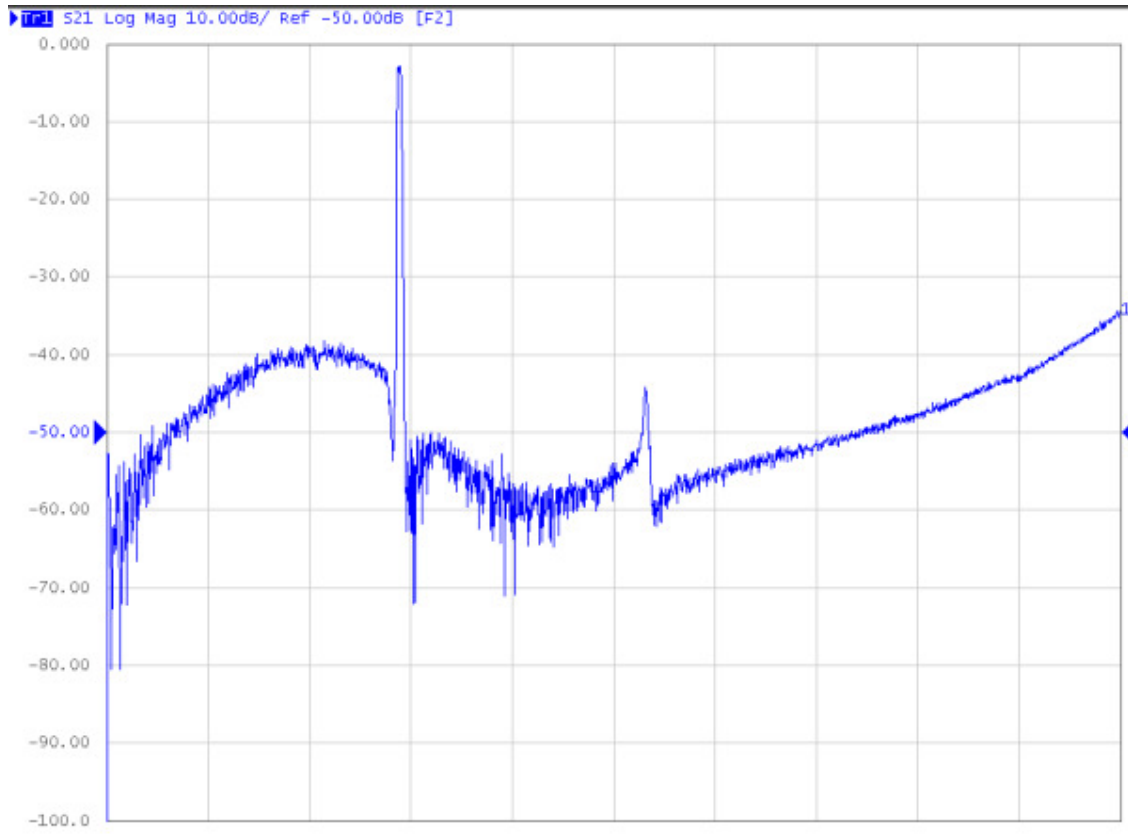
**F. Frequency Characteristics:
S21 span 100MHz**



S21 span 20MHz

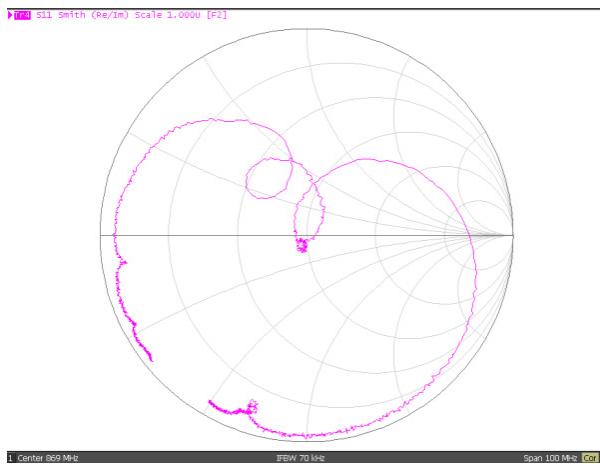


S21 span 3GHz

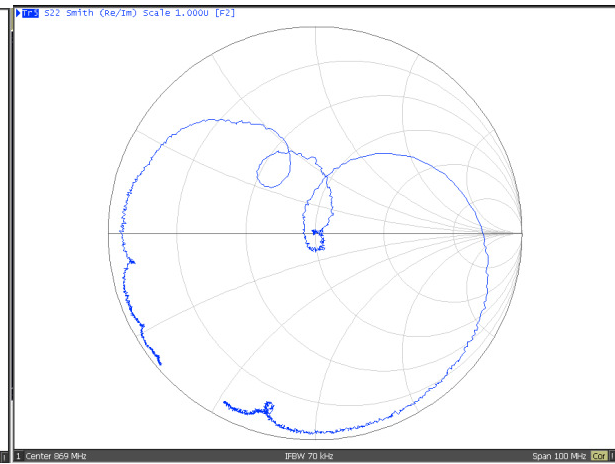


Reflection Functions:

S11



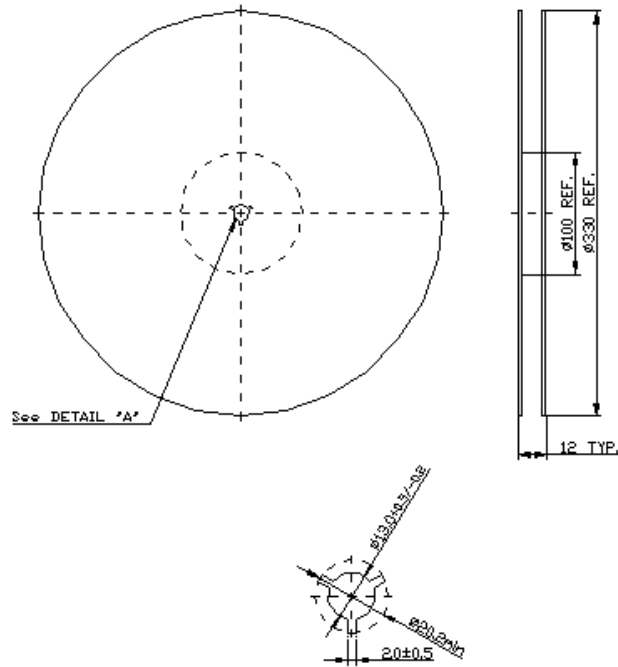
S22



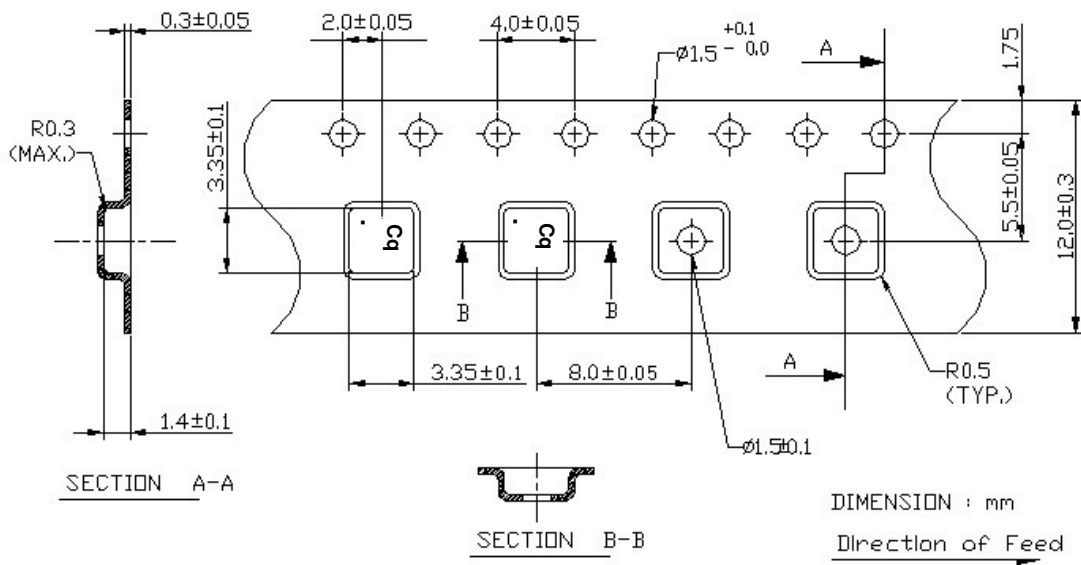
G. PACKING:

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+0/-5°C peak (20~40sec).
4. Time: 2 times.

