



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 440 MHz SMD 3.0x3.0 mm

TST Part No.: TA1808A

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Michael Yang 

Approved by: _____ Bob Chau 

Date: _____ 2015/07/29

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 440 MHz

MODEL NO.: TA1808A

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 5 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

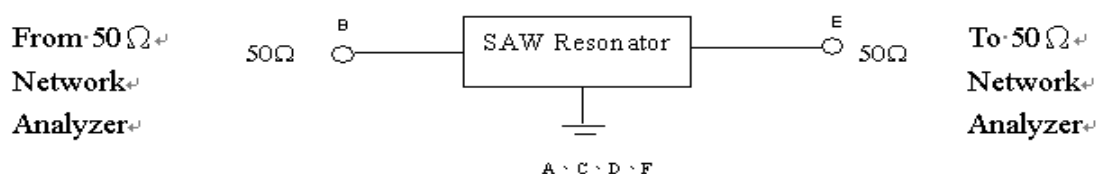
Item	Unit	Min	Type	Max
Center frequency Fc	MHz	-	440	-
Insertion loss (430~450 MHz) IL	dB	-	2.4	3.5 ¹⁾
Amplitude Ripple (430~450 MHz)	dB	-	0.9	2.3 ²⁾
Return loss (430~450 MHz)	dB	6	7	-
Attenuation (Reference level from 0 dB)				
0.3 ~ 300 MHz	dB	50	60	-
300 ~ 380 MHz	dB	45	50	-
380 ~ 400 MHz	dB	40	50	-
480 ~ 880 MHz	dB	40	50	-
880 ~ 915 MHz	dB	45	55	-
915 ~ 1200 MHz	dB	30	40	-
1200 ~ 1785 MHz	dB	25	35	-
Temperature Coefficient of Frequency	ppm/°C	-	-36	-

1) 2.4dB at 25°C; 3.3dB for -30°C to +60°C

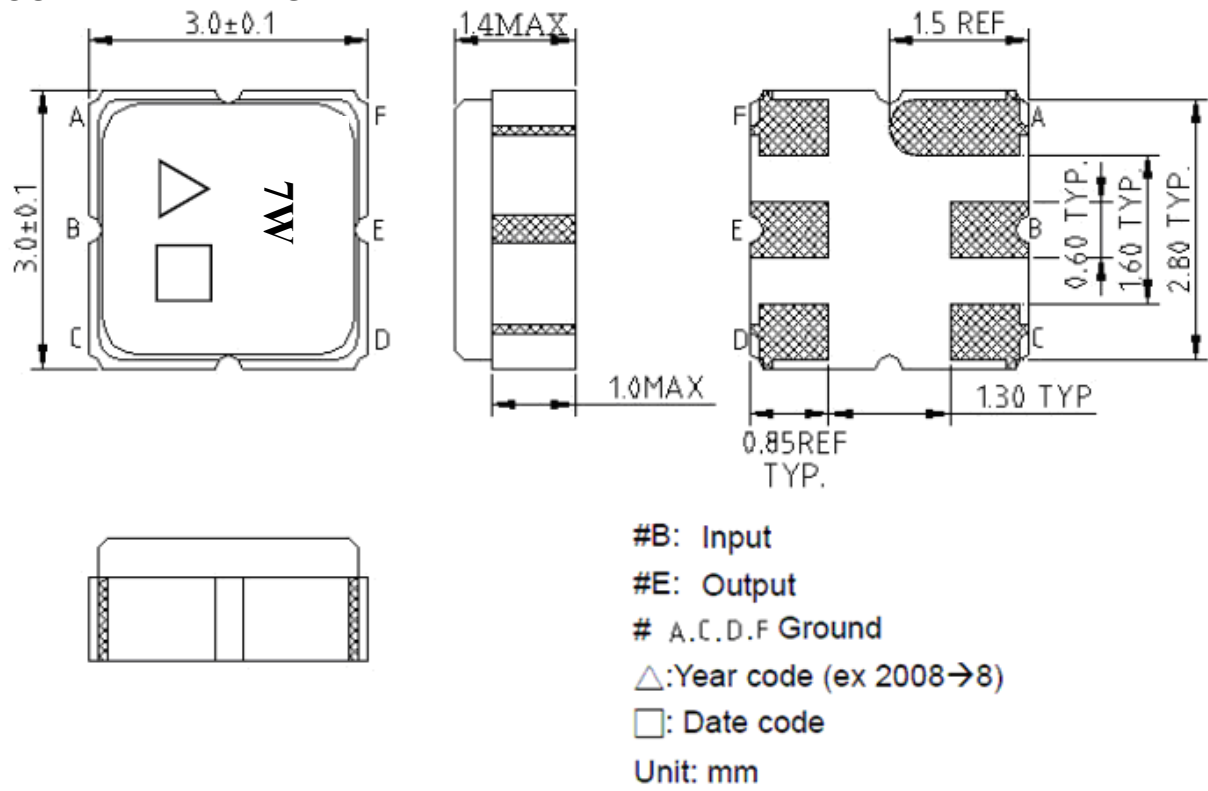
2) 1.1dB at 25°C; 2.2dB for -30°C to +60°C

C. MEASUREMENT CIRCUIT:

Network analyzer



D.OUTLINE DRAWING:



☐ Data code : See the table

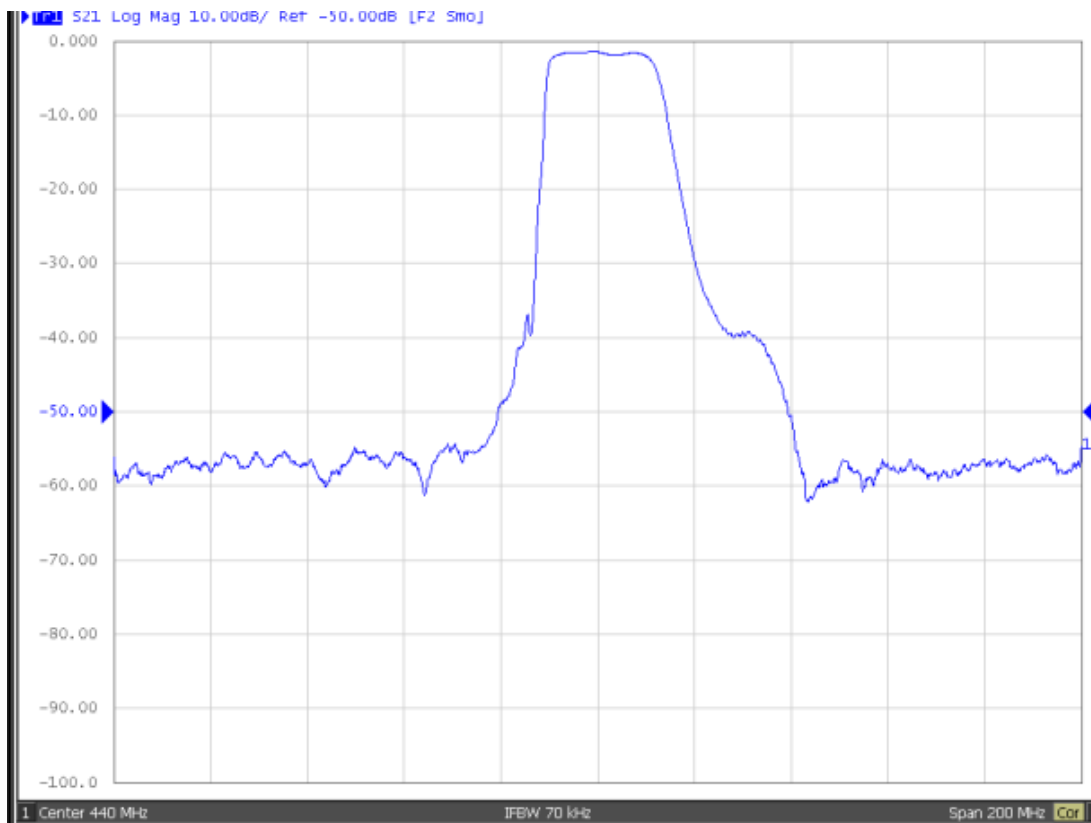
WK	01	02	...	26	27	28	...	52
Code	A	B	...	Z	a	b	...	z

$\triangle$ Year code : See the table

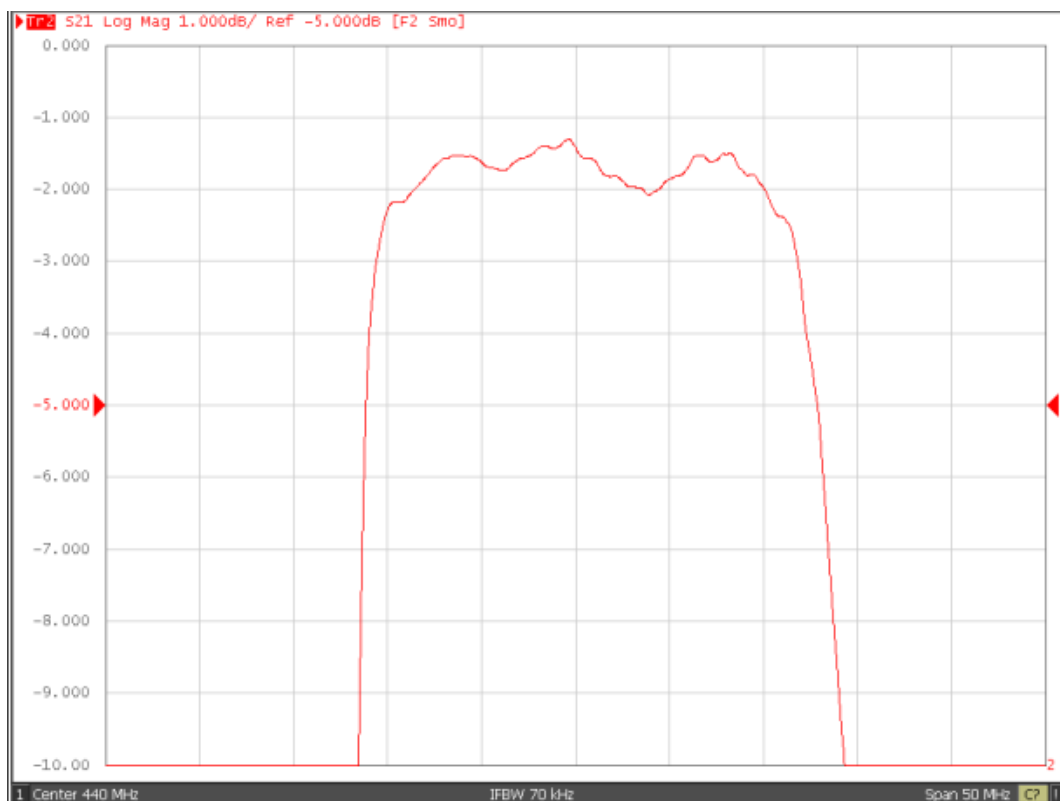
Year	2008	2009	2010	2011	...	2019	2020
Code	8	9	0	1	...	9	0

E. Frequency Characteristics :

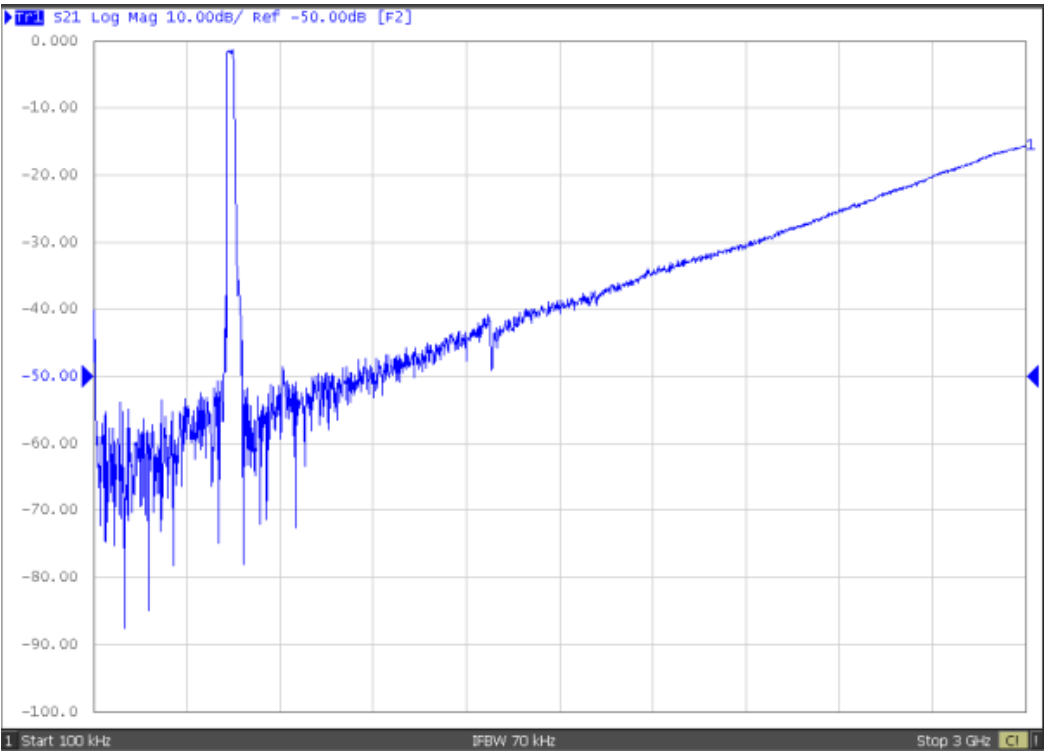
1、S21_Measurement : span 200MHz



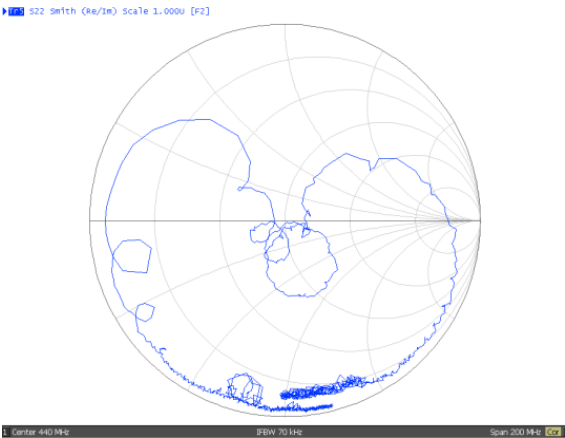
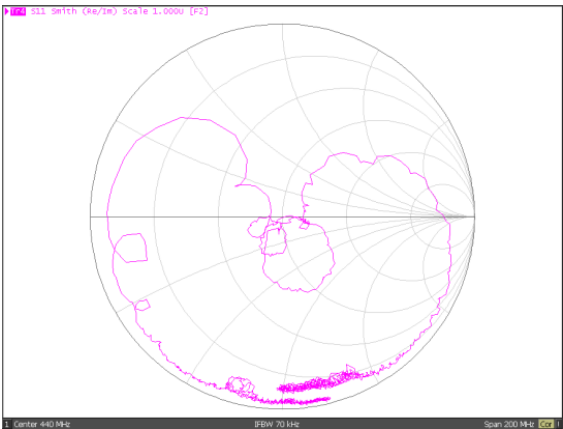
S21_Measurement : Span 50MHz



S21_Measurement : Span 3GHz



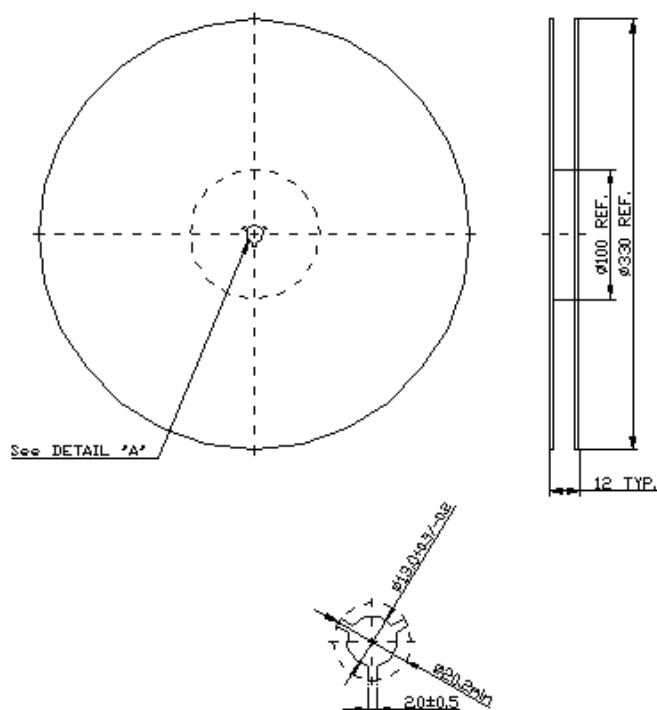
2、S11/S22 Measurement :



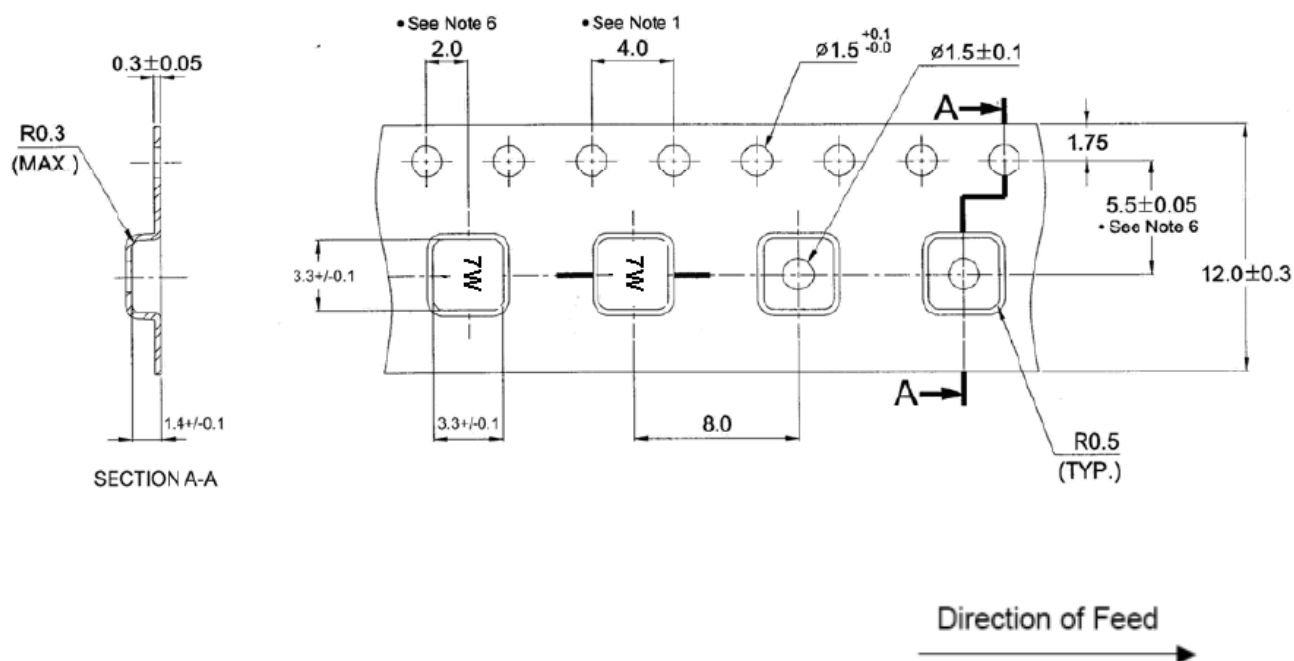
F. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



G. 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.

