



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.

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Product Specifications Approval Sheet

Product Description: SAW Filter 915 MHz SMD 2.0X1.6mm (BW=26MHz)

TST Part No.: TA1102A

Customer Part No.: _____

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

Checked by: _____ Jun-Mao Chang 

Approved by: _____ Andy Yu 

Date: _____ 03/12/2020

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 915MHz

MODEL NO.:TA1102A

REV. NO.:3

A. MAXIMUM RATING:

1. Input Power Level: 15dBm
2. DC Voltage : 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level:Level1(MSL 1)

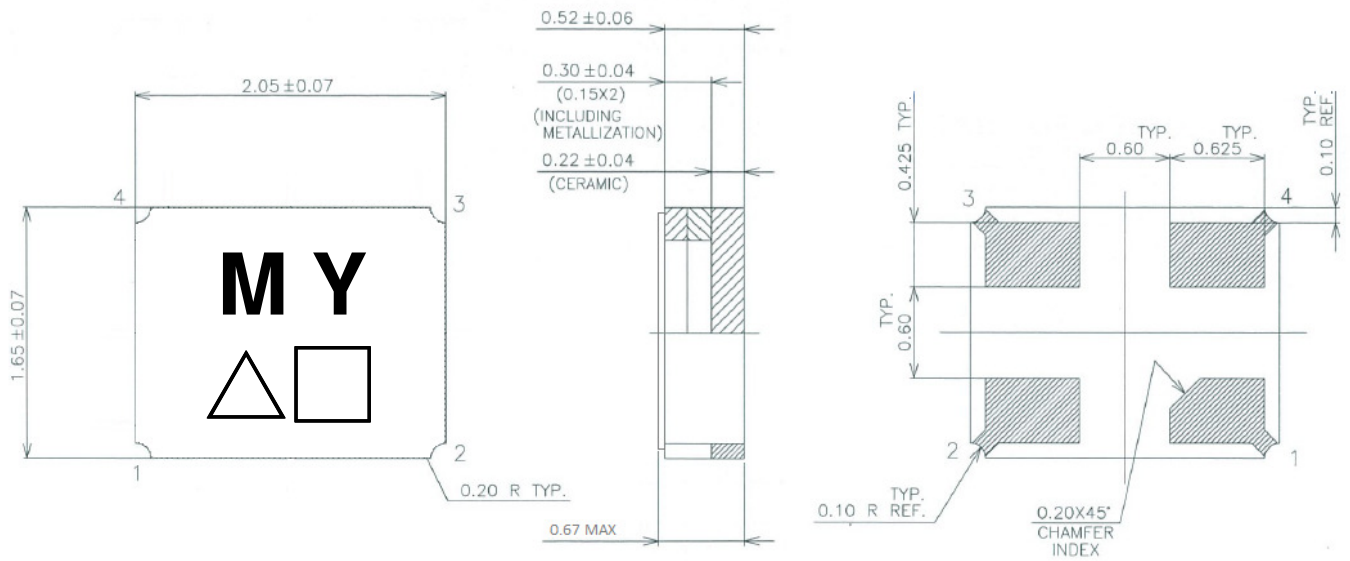


Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min	Typical	Max
Center Frequency Fc	MHz	-	915	-
Insertion Loss (902~928 MHz) IL	dB	-	2	3
Amplitude Ripple (902~928 MHz)	dB	-	0.8	1.5
Group Delay Variation (902~928 MHz)	ns	-	35	50
Input/Output Return Loss (902~928 MHz)	dB	8	9.5	-
Attenuation (Reference level from 0 dB)				
10 ~ 857.5 MHz	dB	40	55	-
857.5 ~ 882.5 MHz	dB	35	48	-
970 ~ 1005 MHz	dB	35	48	-
1005 ~ 1110 MHz	dB	45	52	-
1110 ~ 3000 MHz	dB	30	35	-
Source / Load Impedance	Ω	-	50	-

C. OUTLINE DRAWING:

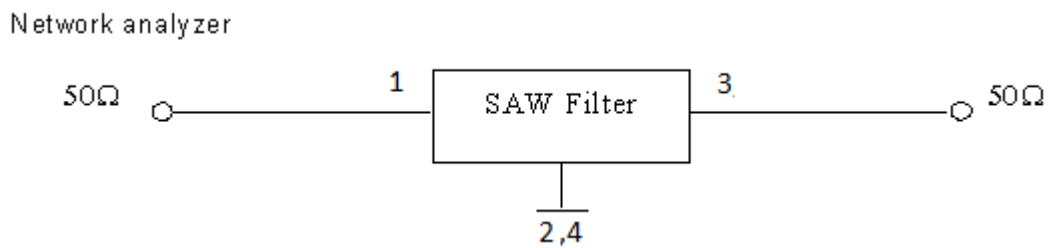


#1	Input
#3	Output
#2,4	Ground
Unit:	mm

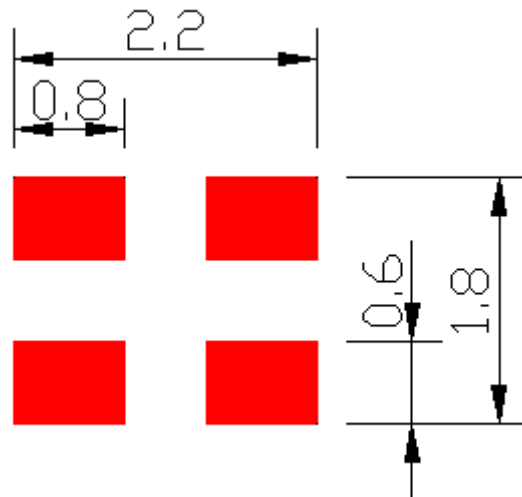
△: Year(2020->0, 2021->1, 2022->2...)

□: Week(A~Z:Week01~26, a~z:Week27~52)

D. MEASUREMENT CIRCUIT:

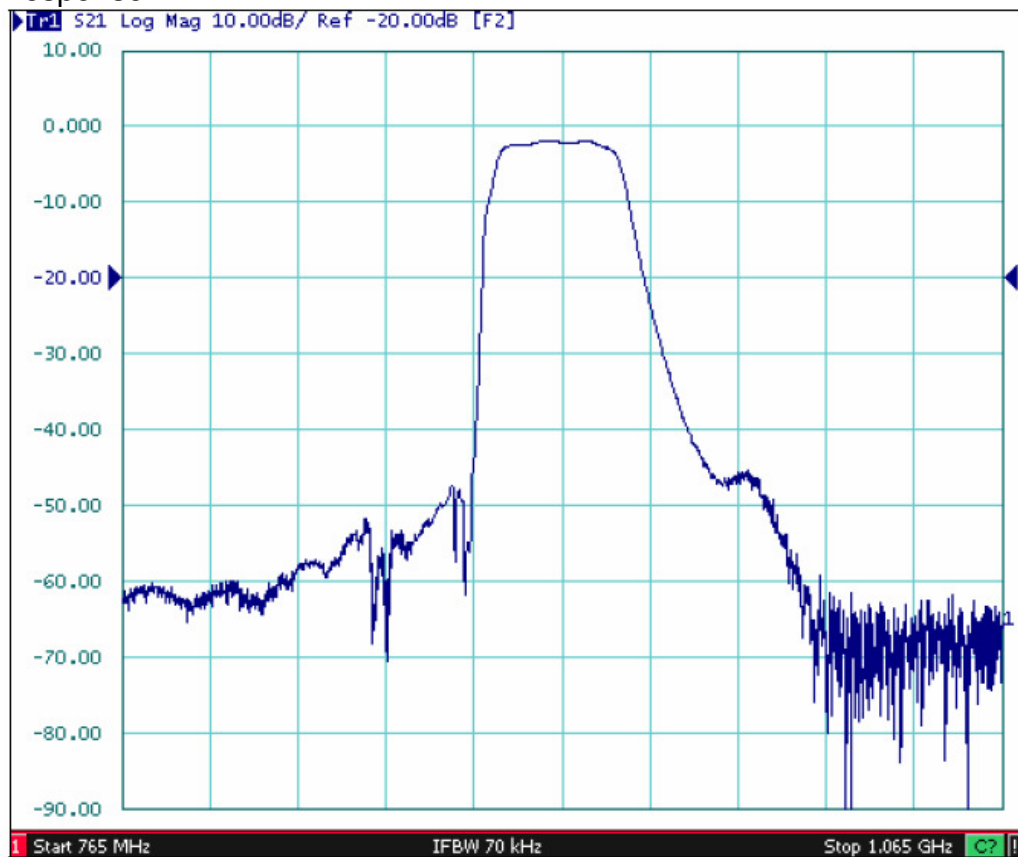


E. PCB Footprint:

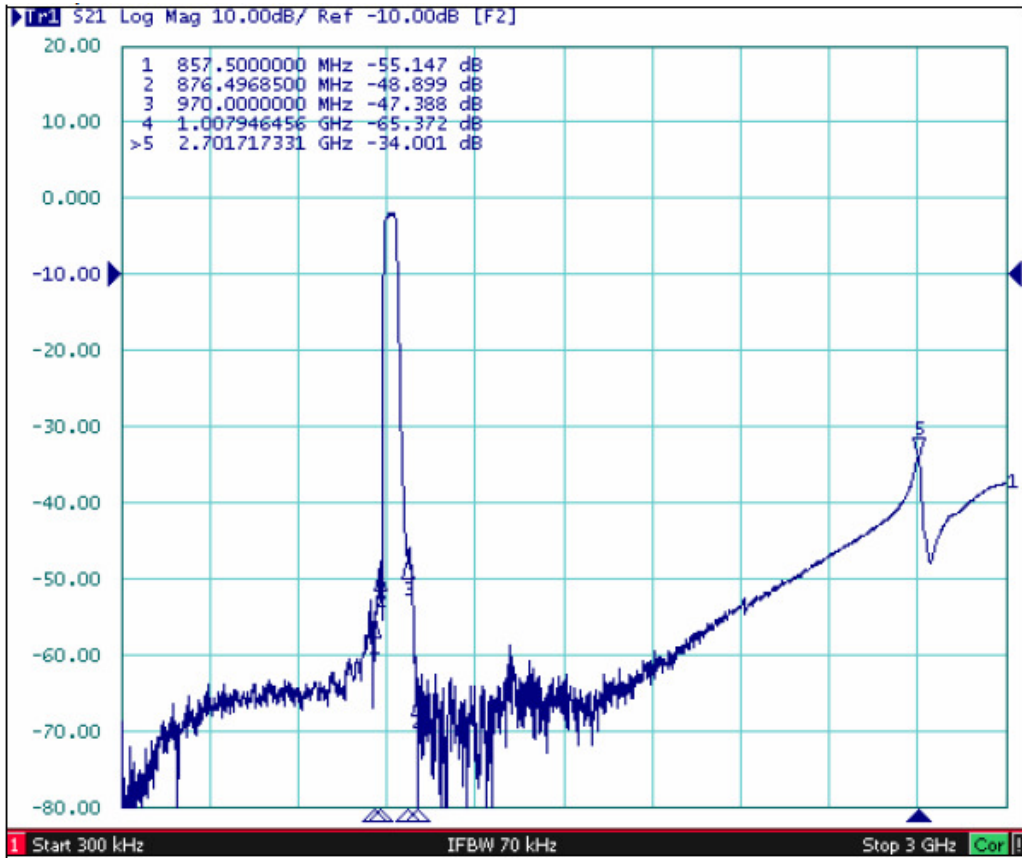


F. Frequency Characteristics(Demo board):

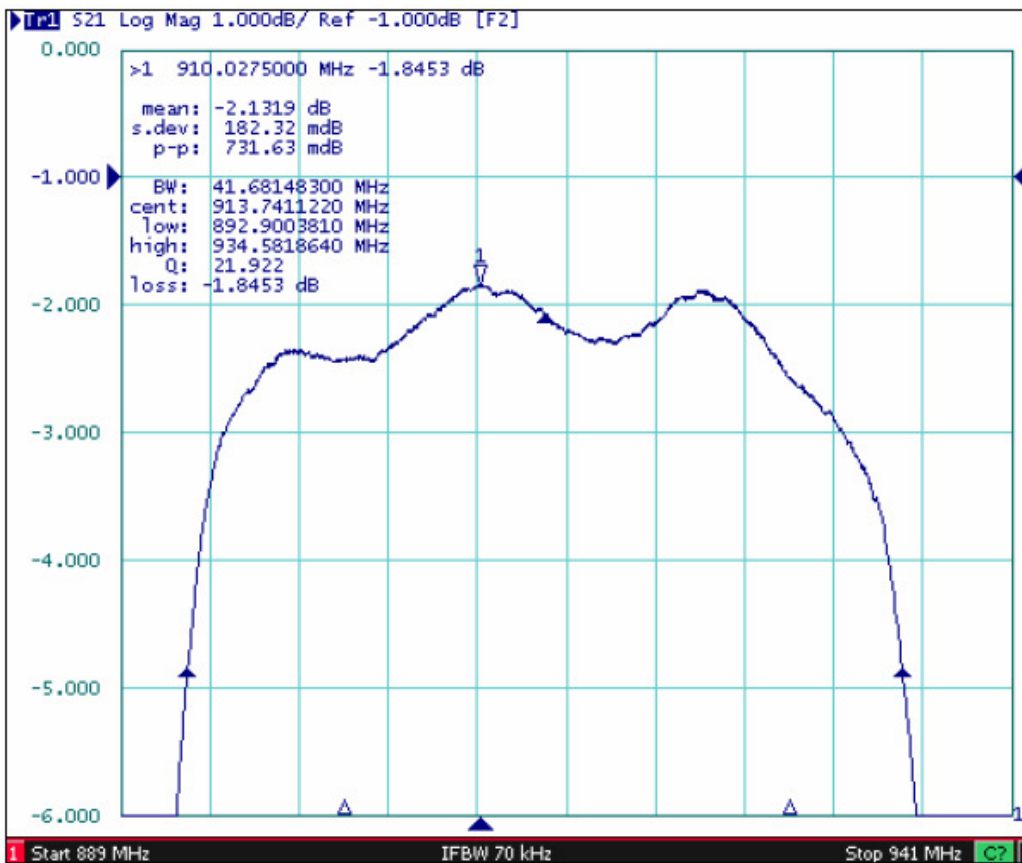
Frequency response



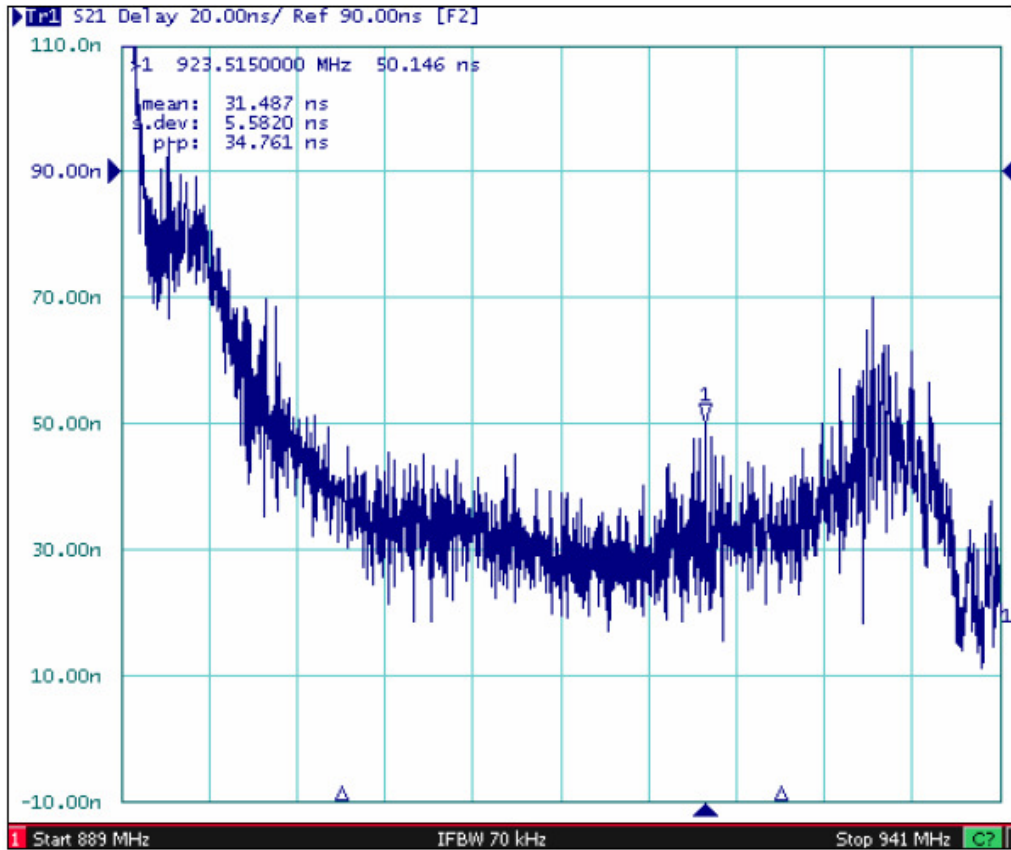
Wide band response



Pass band response



Group delay

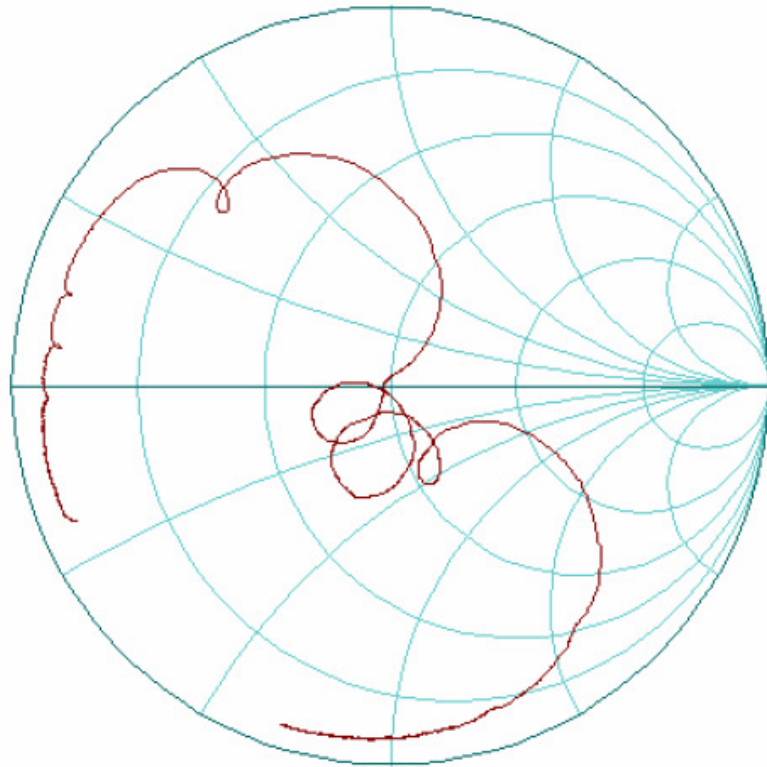


Return loss



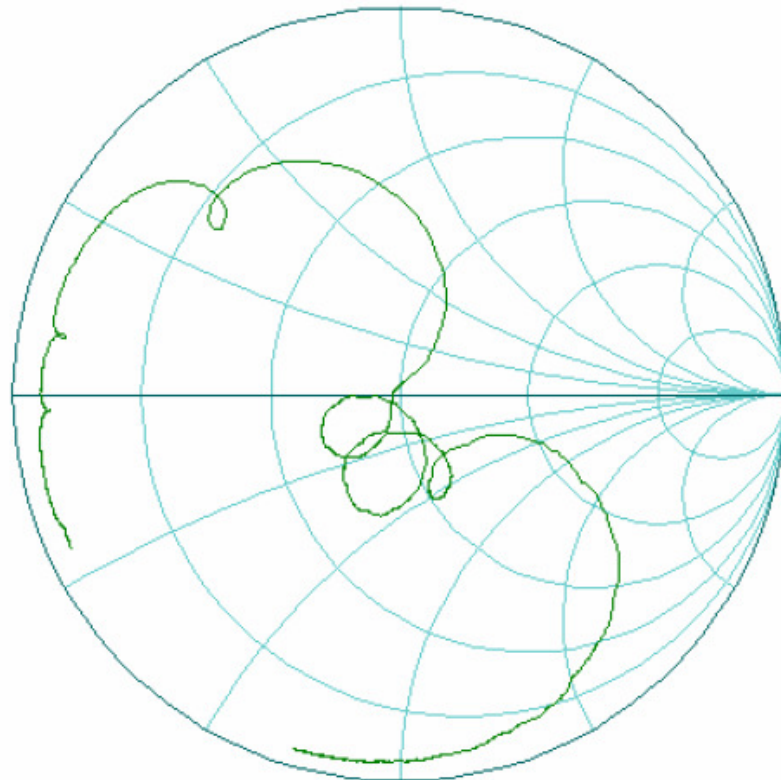
S11 Smith chart

▶ F2 S11 Smith (R+jX) Scale 1.000U [F2]



S22 Smith chart

▶ F2 S22 Smith (R+jX) Scale 1.000U [F2]



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 peak (min. 20~40sec).
4. Time : 2 times.

