



TAI-SAW TECHNOLOGY CO., LTD.

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

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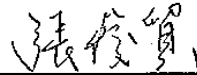
Product Specifications Approval Sheet

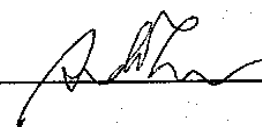
Product Description: SAW Filter 1900MHz SMD 3.0 x 3.0 mm

TST Part No.: TA1093A

Customer Part No.: _____

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

Checked by: Jun-Mao Chang 

Approved by: Andrew Lee 

Date: 8. 8. 2011

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 1900MHz

MODEL NO.:TA1093A

REV. NO.:2

A. MAXIMUM RATING:

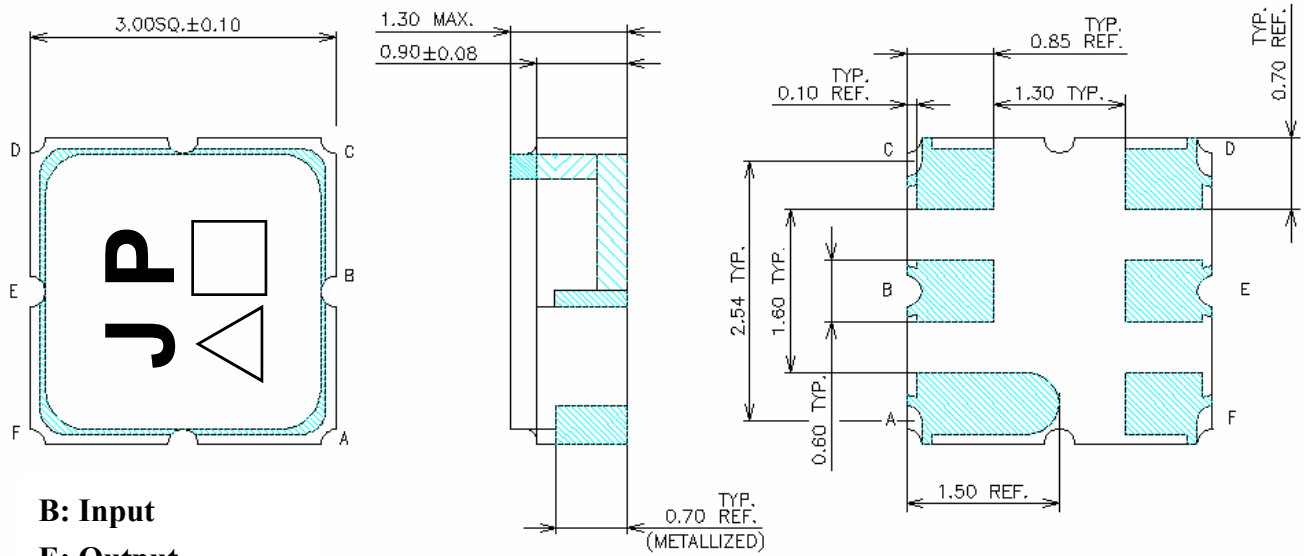
1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min	Typical	Max
Center Frequency	Fc MHz		1900	
Insertion Loss (1880~1920 MHz)	IL dB		2.7	3.5
Amplitude Ripple (1880~1920 MHz)	dB		1.0	1.5
Group Delay Ripple (1880~1920 MHz)	ns	--	10	40
Input VSWR (1880~1920 MHz)		--	1.5	2.0
Output VSWR (1880~1920 MHz)		--	1.5	2.0
Attenuation (Reference level from 0 dB)				
0.3 ~ 1000 MHz	dB	30	35	
1000 ~ 1700 MHz	dB	30	35	
1700 ~ 1830 MHz	dB	32	38	
1970 ~ 2400 MHz	dB	38	45	
2400 ~ 3000 MHz	dB	30	40	
3000 ~ 4000 MHz	dB	25	34	
Input / Output Impedance	Ω	50		

C. Outline Drawing:



B: Input

E: Output

A,C,D,F: Ground

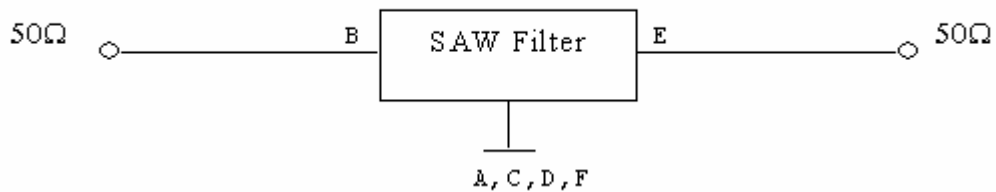
Dimension: mm

△: Year (年碼, 2011 年: 1, 2012 年: 2, ...2019 年: 9)

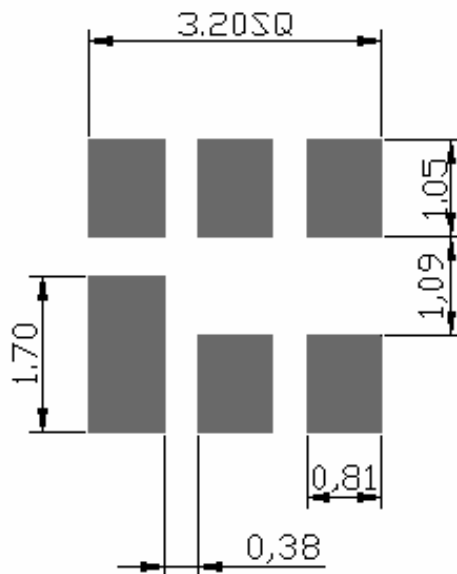
□: Week (週碼, A~Z : week01~week26; a~z: week27~week52)

D. Measurement Circuit:

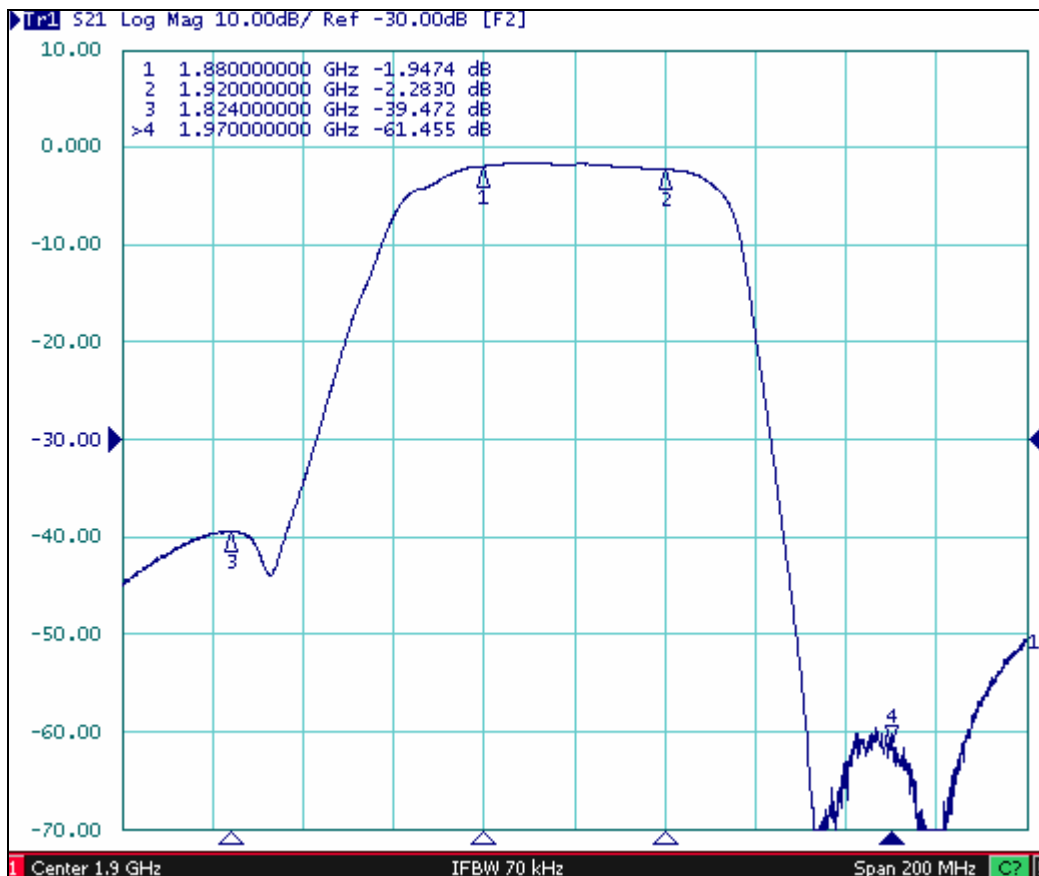
HP Network analyzer

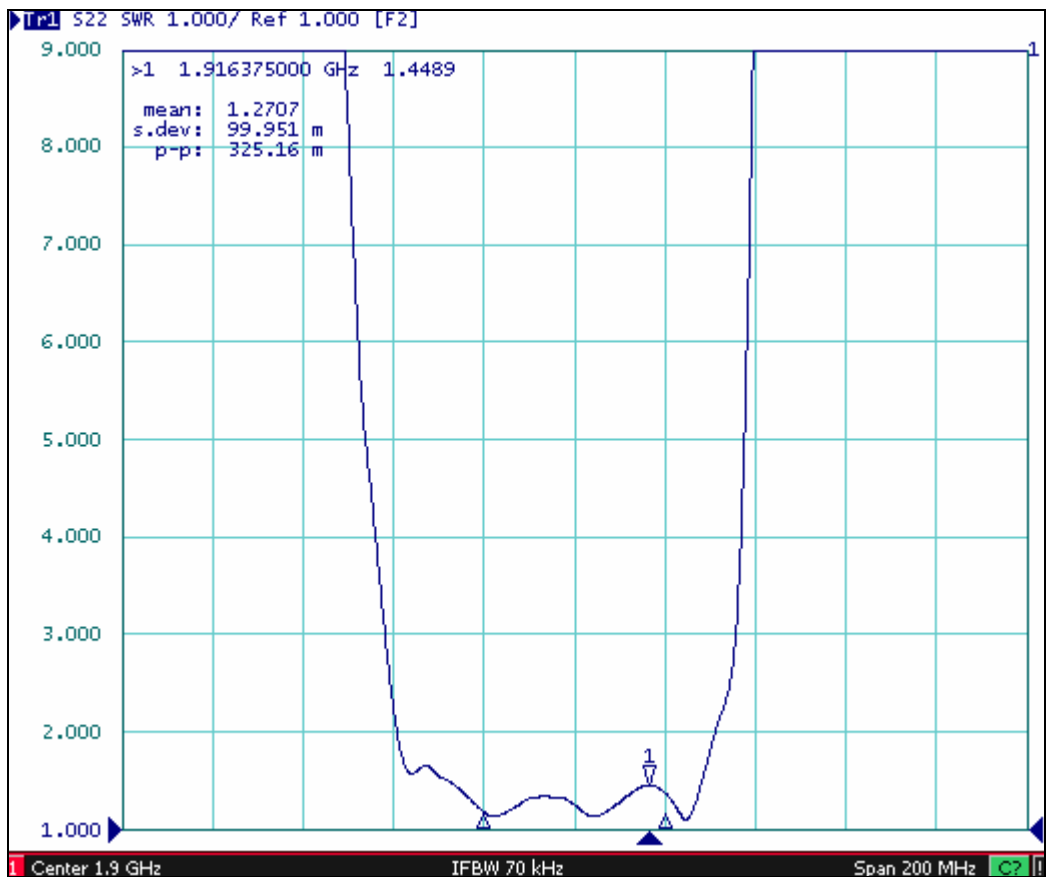
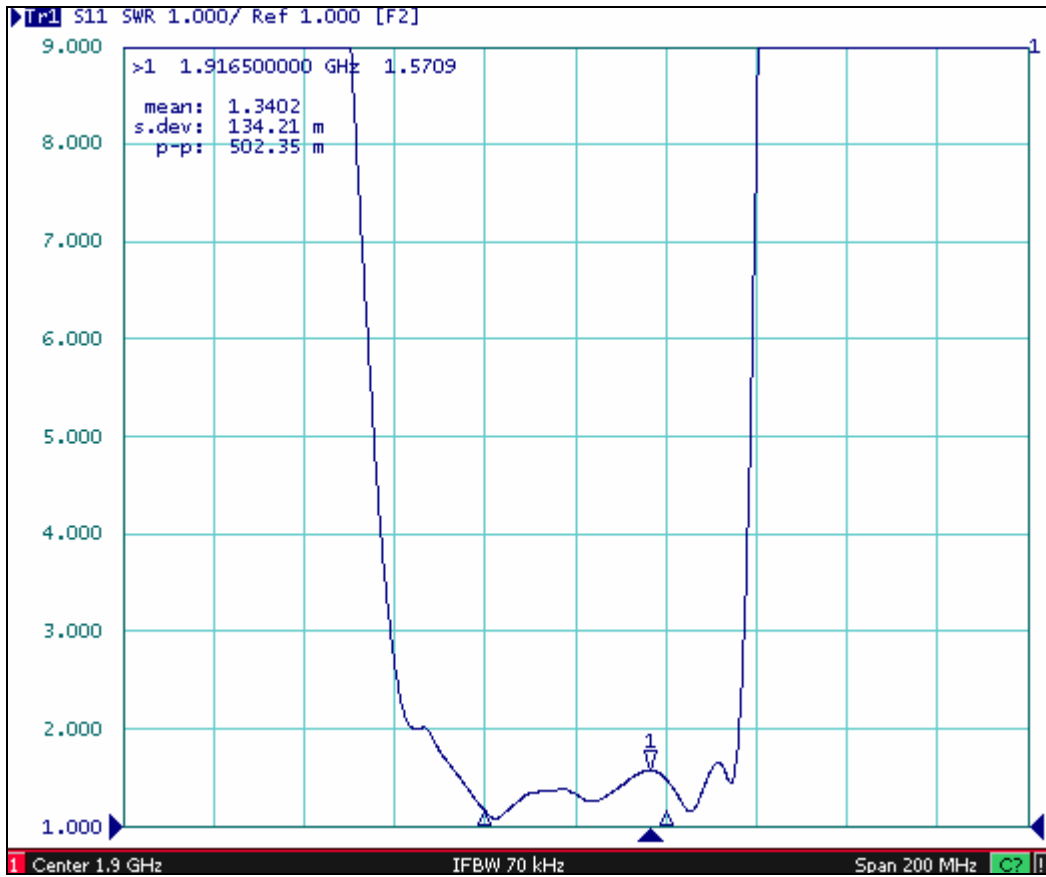


E. PCB Footprint:



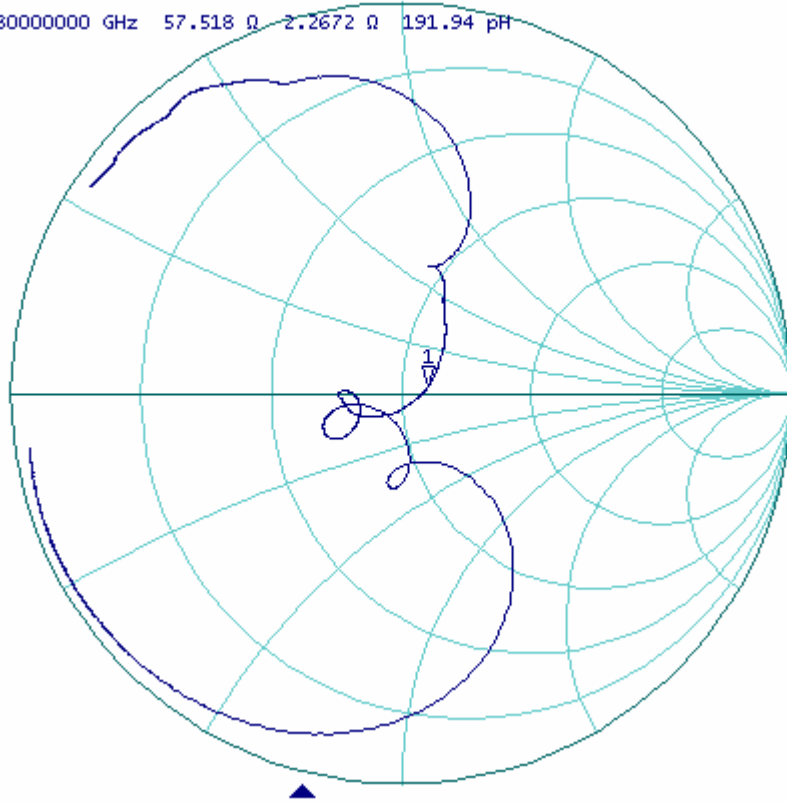
F. Frequency Characteristics : (Demo Board)





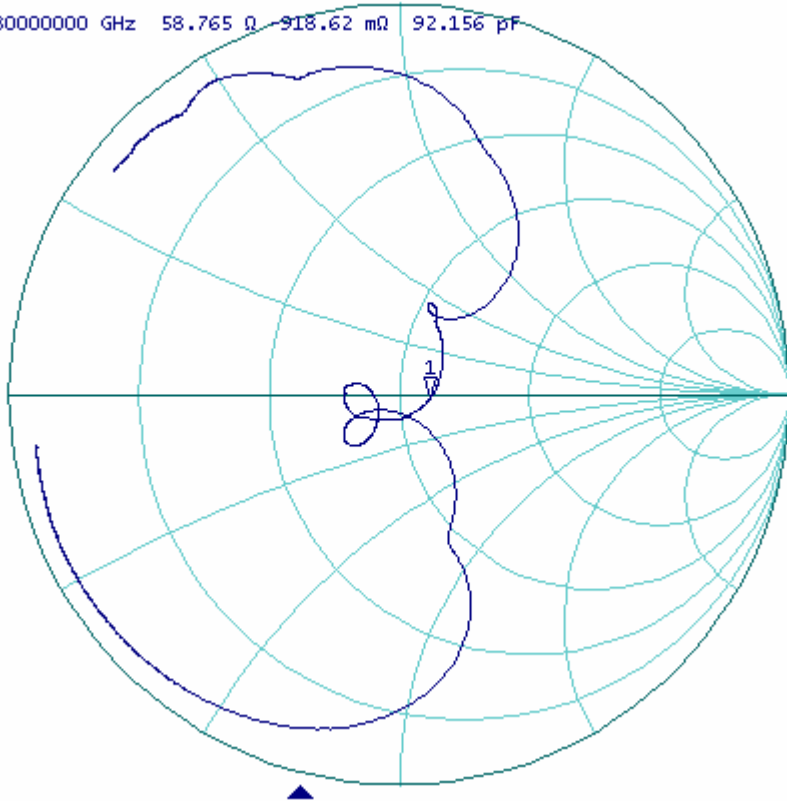
▶ [F2] S11 Smith (R+jX) Scale 1.000U [F2]

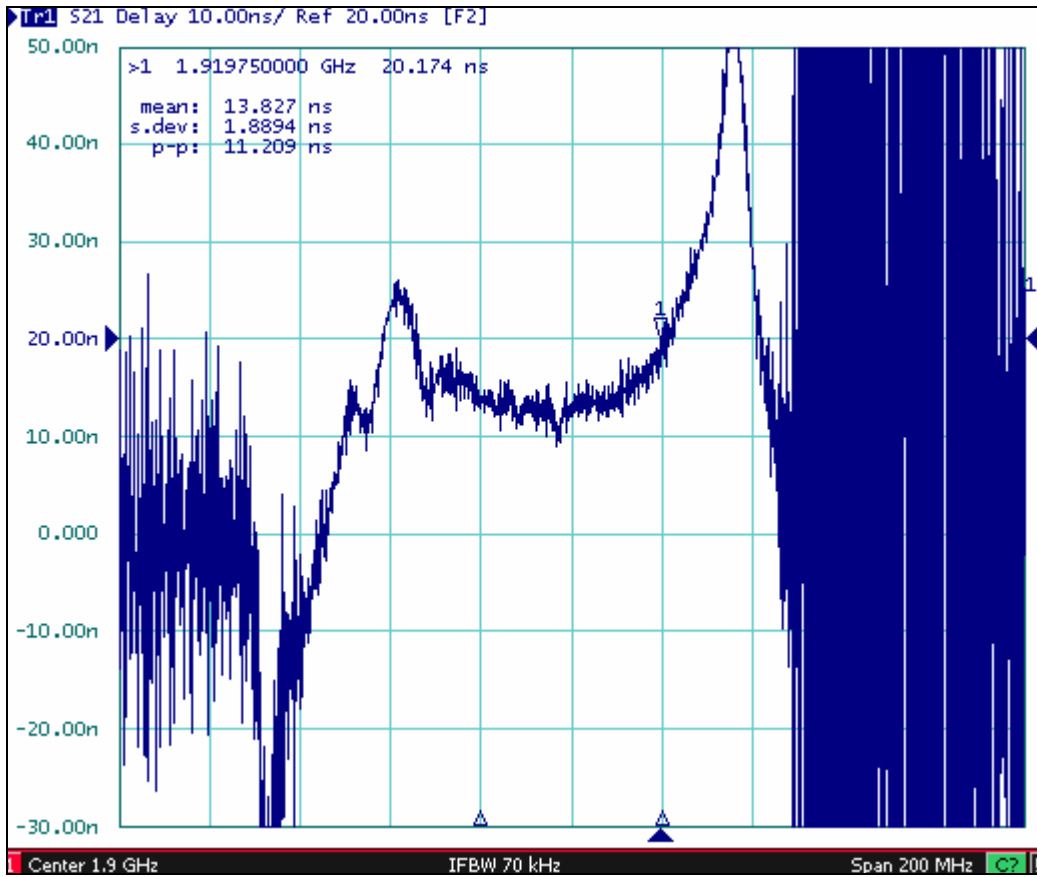
>1 1.880000000 GHz 57.518 Ω -2.2672 Ω 191.94 pF



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

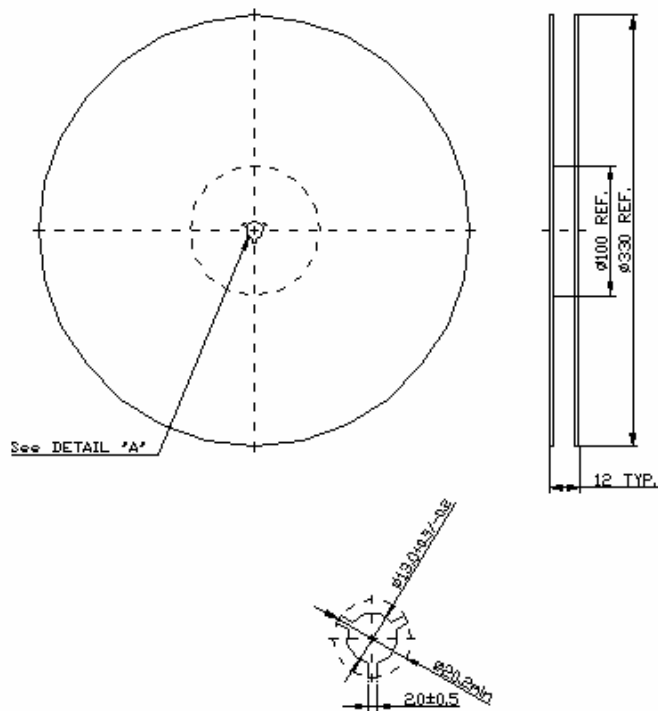
>1 1.880000000 GHz 58.765 Ω -918.62 m Ω 92.156 pF





G. Packing:

1. REEL DIMENSION



2. TAPE DIMENSION

