



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet

Product Name: SAW Filter 952.5 MHz (BW 15MHz) SMD 3.0X3.0 mm

TST Parts No.: TA1961A

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Sam Lin *Sam Lin*

Approval by: _____ Bob Chau *Bob Chau*

Date: _____ 10/06/2016

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 952.5MHz

MODEL NO.:TA1961A

REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3 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:

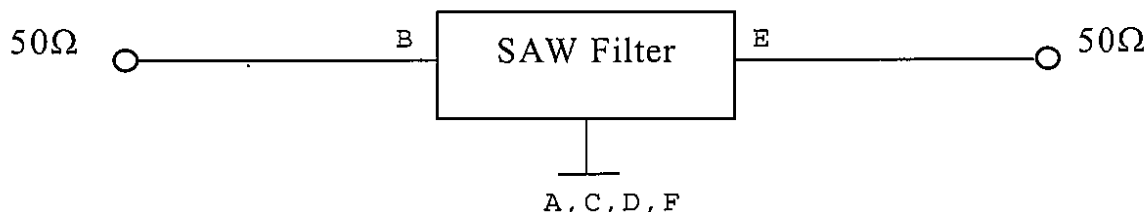
Terminating source impedance (single) : $Z_s = 50 \Omega$

Terminating load impedance(single) : $Z_L = 50 \Omega$

Item	Unit	Min	Type.	Max
Center Frequency Fc	MHz	-	952.5	-
Insertion Loss (945~960MHz) IL	dB	-	2.1	3.0
Amplitude Ripple	dB	-	0.8	1.8
VSWR (945~960MHz)	dB	-	1.5	2.0
Group Delay at Fc		-	31	45
Group Delay Ripple (945~960MHz)	dB	-	20	60
Attenuation (Reference level from 0dB)				
355 ~ 920 MHz	dB	33	41	-
985 ~ 1555 MHz	dB	35	43	-
Temperature Coefficient	ppm/k	-	-36	-

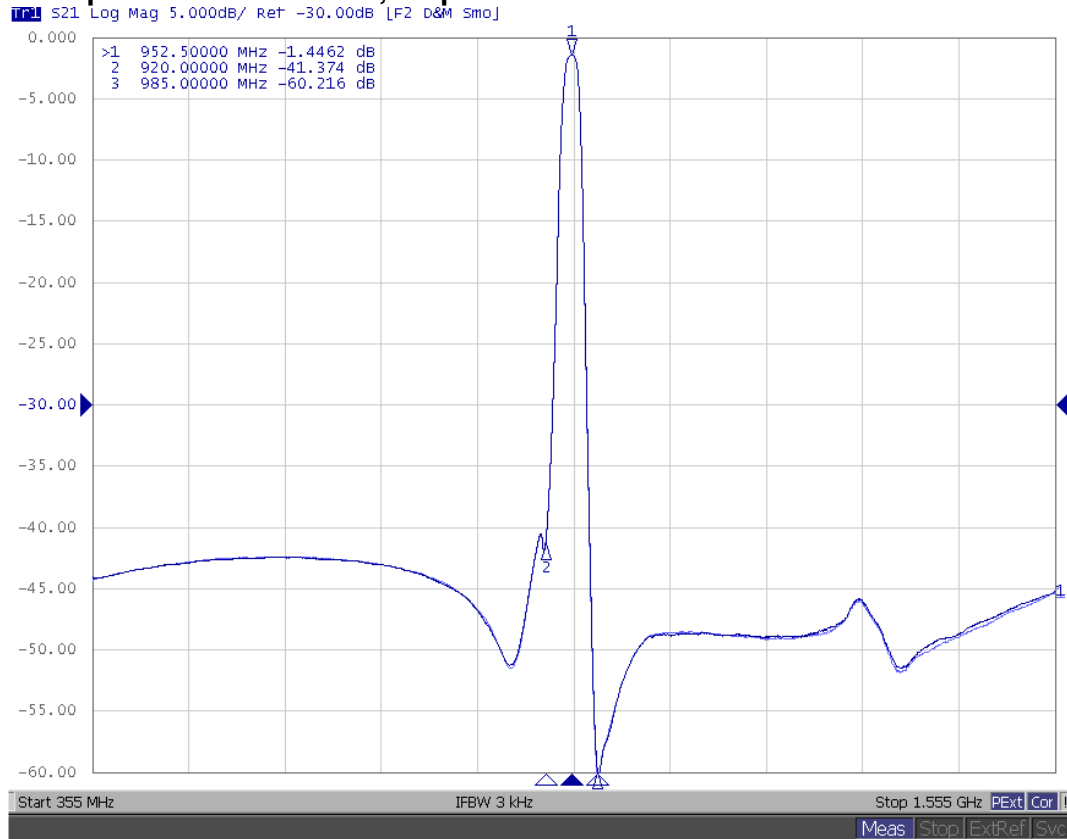
C. TEST CIRCUIT:

HP Network analyzer

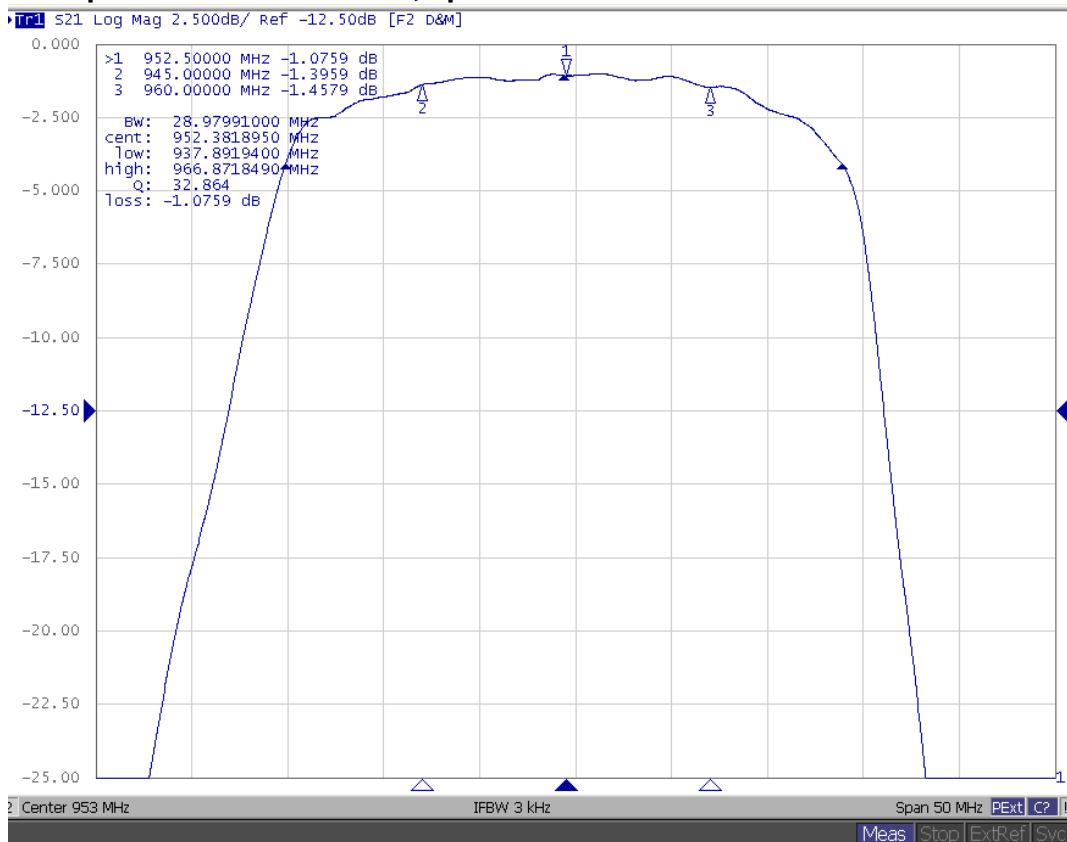


D. Frequency Characteristics:

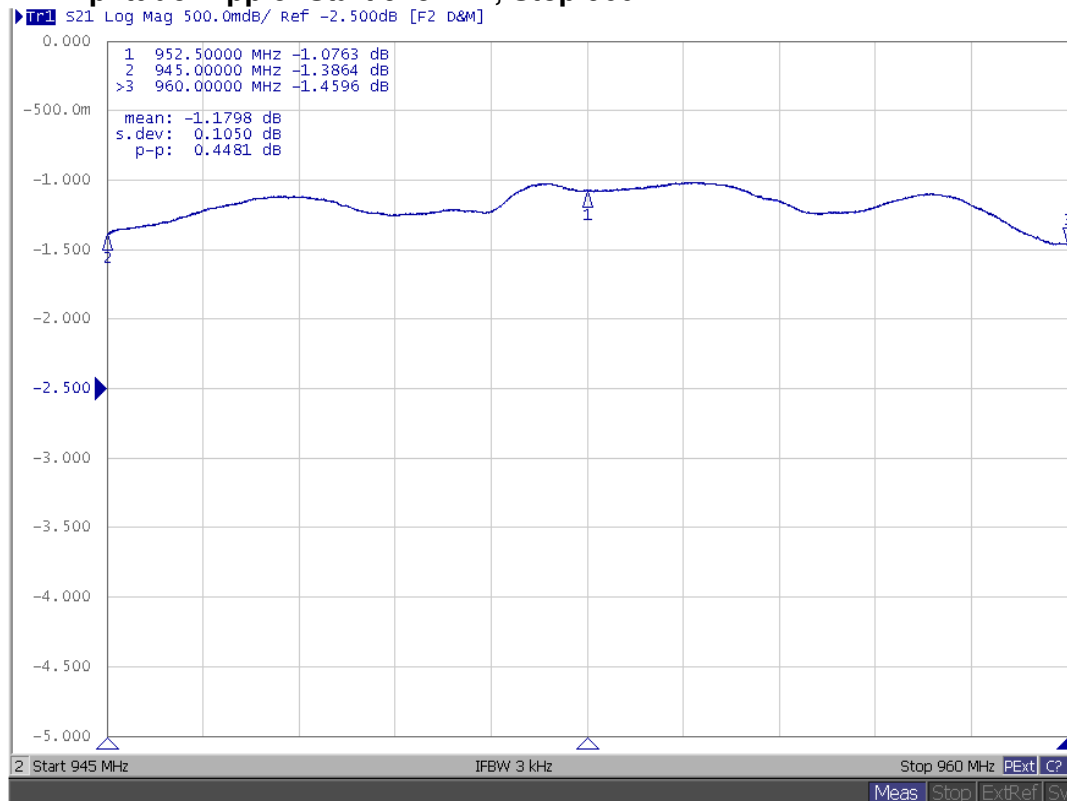
S21 response: start 355MHz, stop 1555MHz



S21 response: center 953 MHz, span 50 MHz



S21 Amplitude Ripple: Start 945MHz, Stop 960MHz

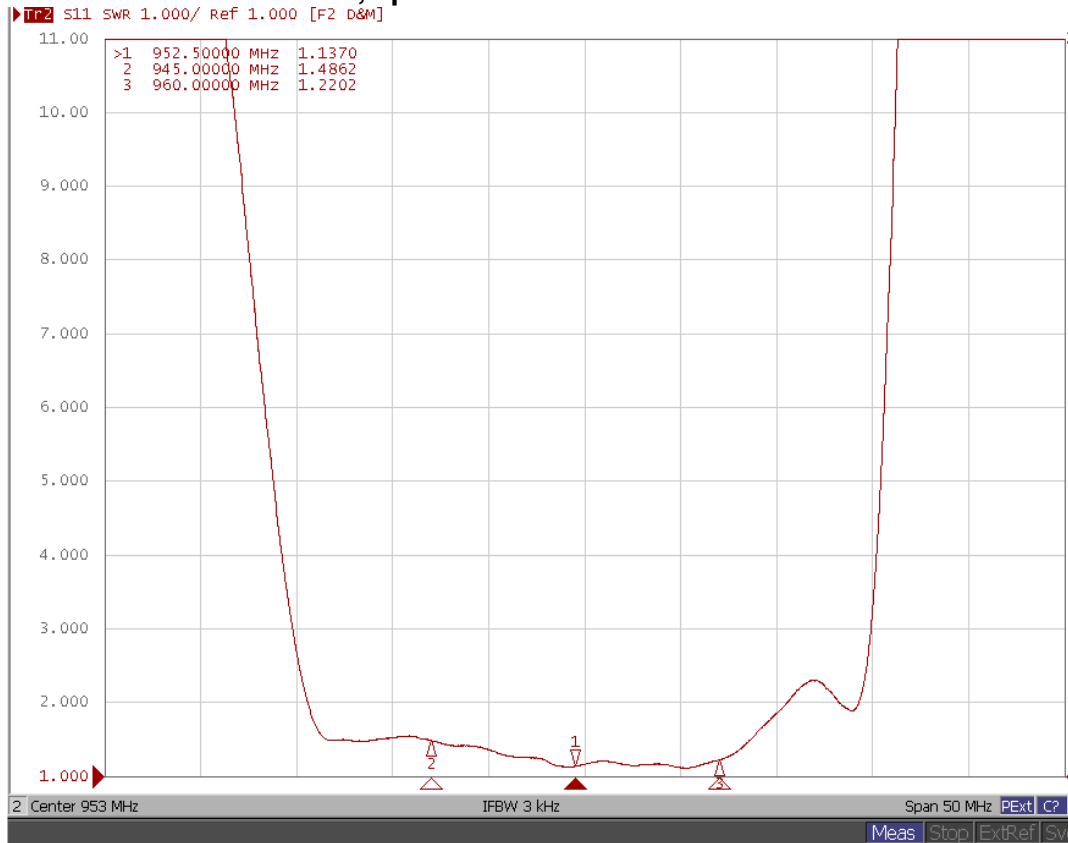


S21 Group delay: center 953MHz, span 50MHz

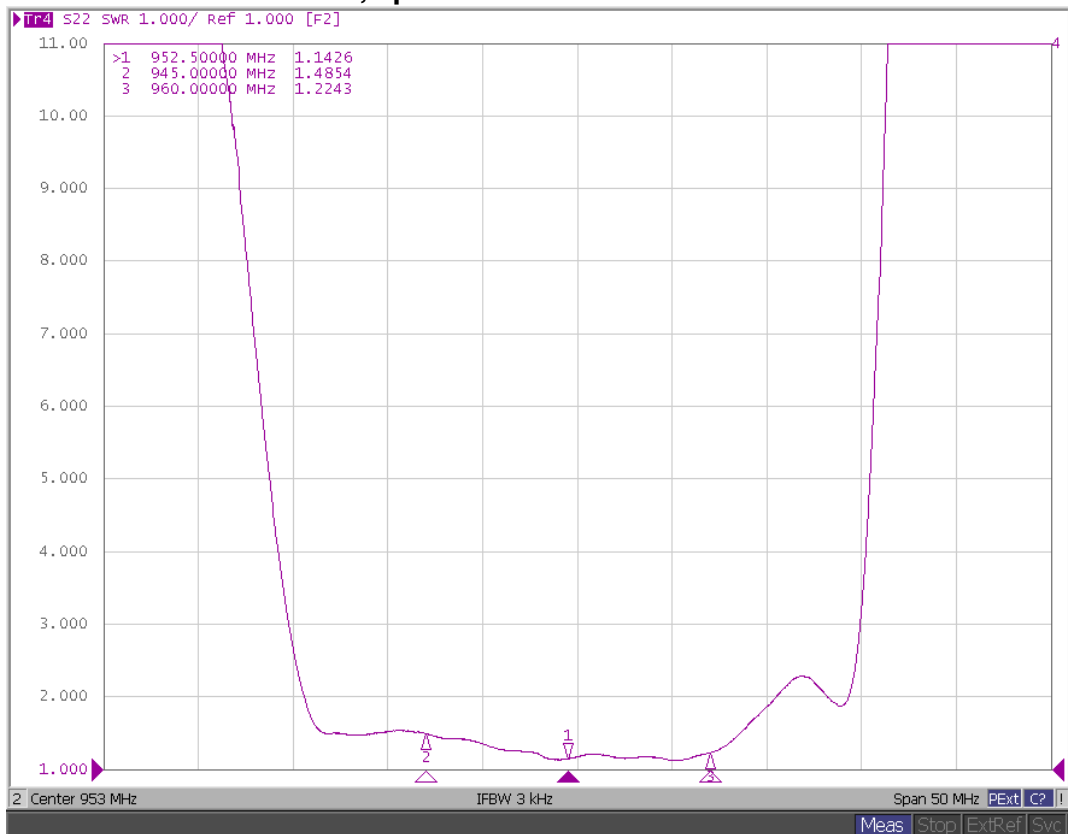


Reflection Functions:

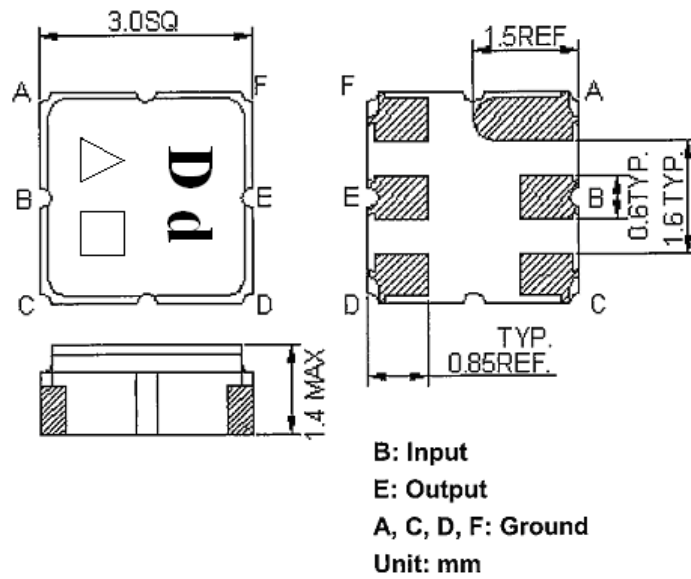
S11 VSWR: center 953MHz, span 50MHz



S22 VSWR: center 953MHz, span 50MHz



E.OUTLINE DRAWING:



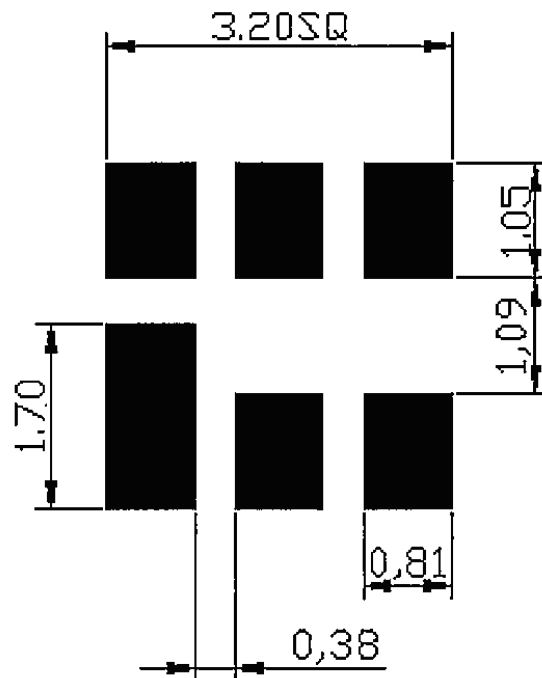
Data code : See the table

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:



1. REEL DIMENSION

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



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.

