

TAI-SAW TECHNOLOGY CO., LTD.

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

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Approval Sheet For Product Specification

Product Name: SAW Filter 70MHz 1.3MHz BW DIP 35.0×12.8mm

TST Parts No.:TB0940A

Customer Parts No.:_____

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

Checked by:_____ Andy Yu *Andy*

Approval by:_____ Francis Chen *FC*

Date:_____ 04/06/2011

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 70 MHz(BW=1.3MHz) DIP 35.0mmx12.8mm

MODEL NO.: TB0940A

REV.2.0

A. MAXIMUM RATING:

1. Operating Temperature: 0 °C ~ +70 °C
2. Storage Temperature: -40 °C ~ +85 °C
3. Input power: 10dBm

RoHS Compliant
 Lead-free soldering

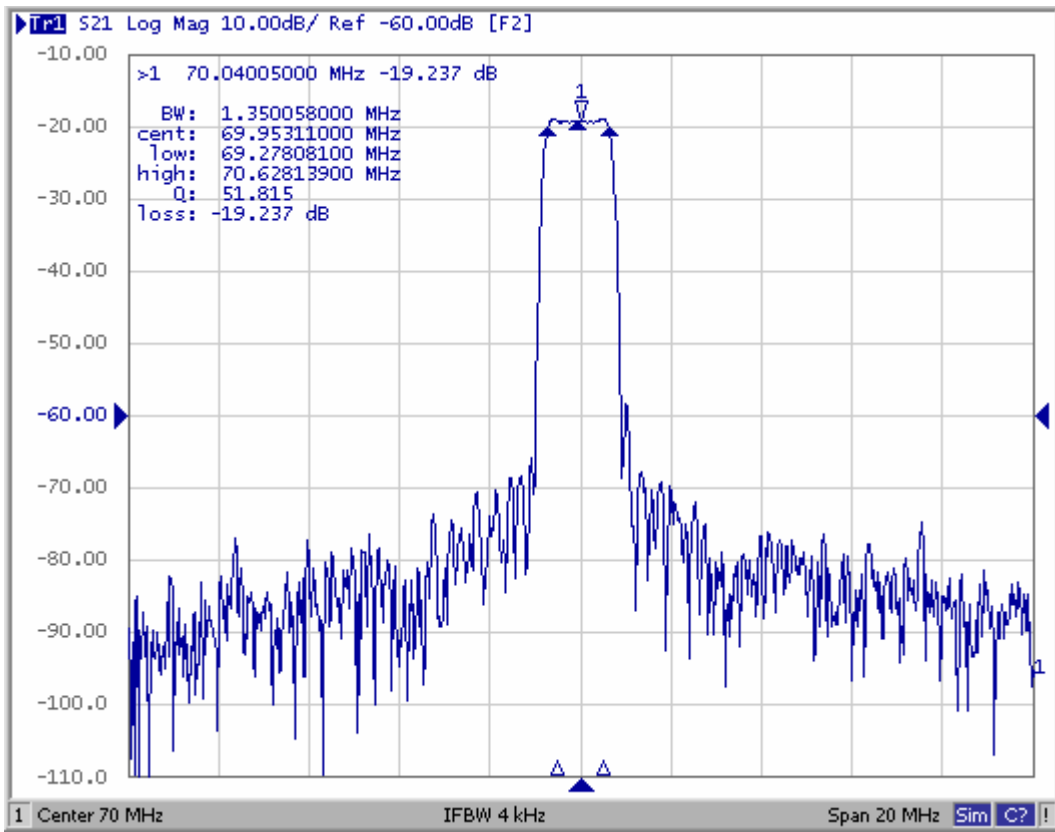
B. Characteristics :

Ambient Temperature: 25 °C

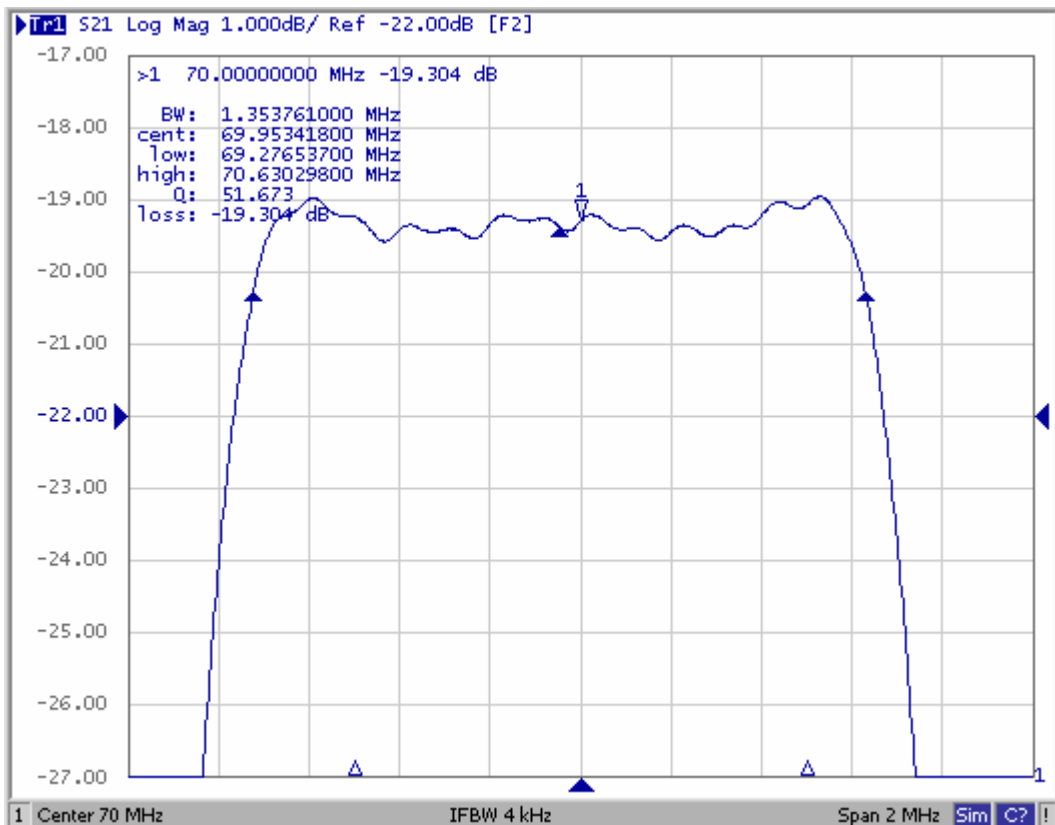
Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency F_c MHz	69.9	70	70.1	-
Minimum Insertion loss I.L. dB	-	19.2	22.0	-
1dB Bandwidth MHz	1.3	1.35	-	-
40dB Bandwidth MHz	-	1.87	1.90	-
45dB Bandwidth MHz	-	1.90	1.93	-
Passband Ripple ($F_c \pm 0.5\text{MHz}$) dB	-	0.5	1.0	-
Ultmate Rejection dB	50	54		
Temp Coefficient ppm/K	-	-0.032	-	-
Matching:				
1.The input of the filter will be matched to <u>50 ohm</u>				
2.The output of the filter will be matched to <u>50 ohm</u>				

D. FREQUENCY CHARACTERISTICS :

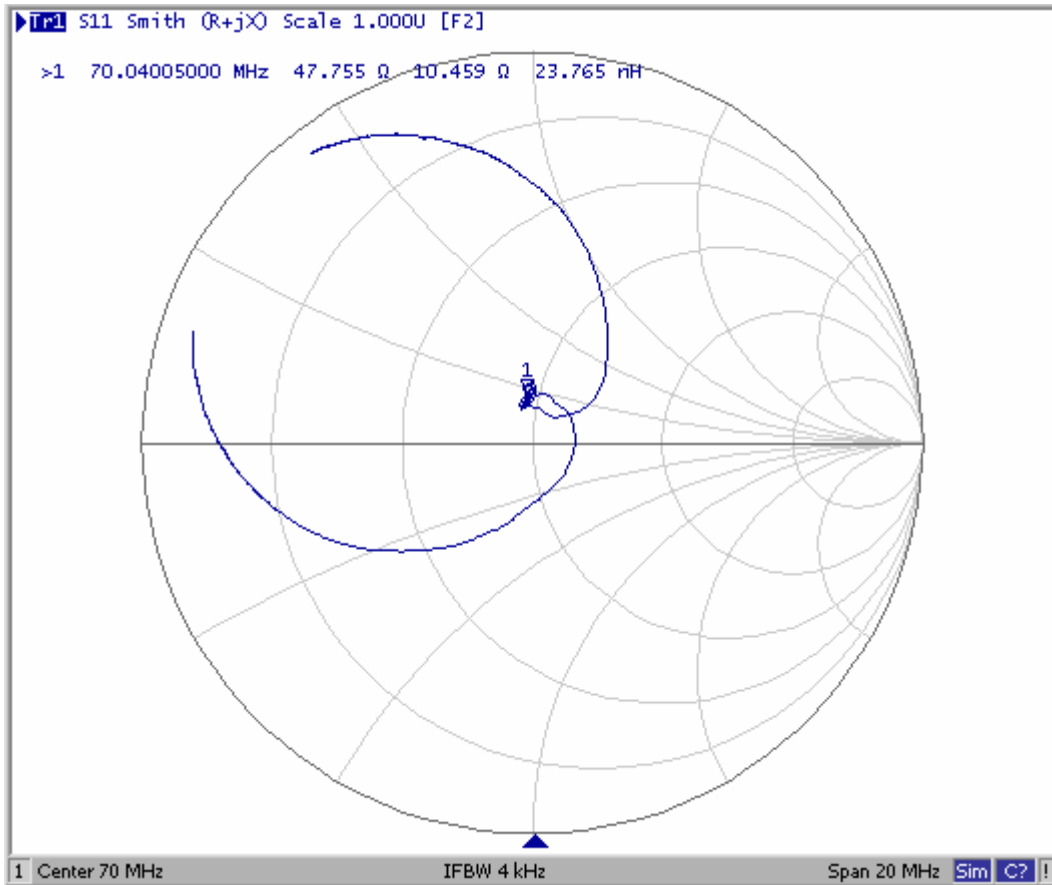
1.S21 Response: (span : 20MHz)



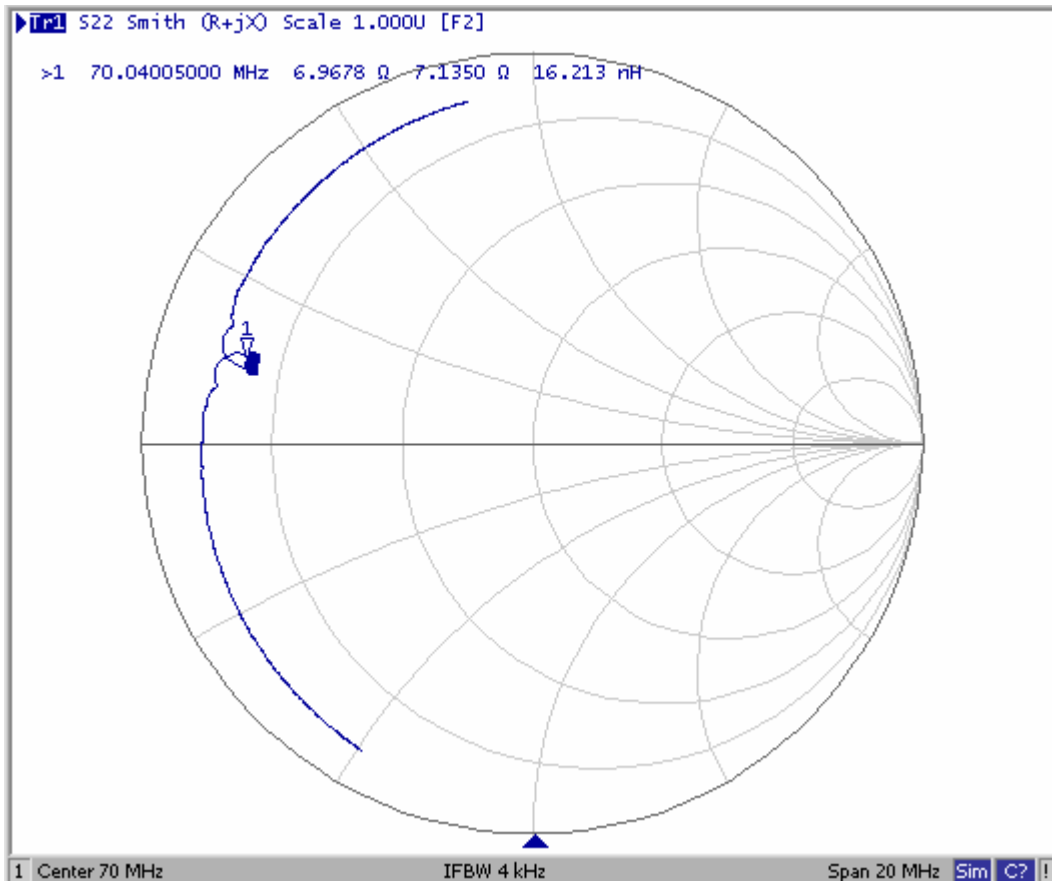
2. Pass-band Response: (span : 2MHz)



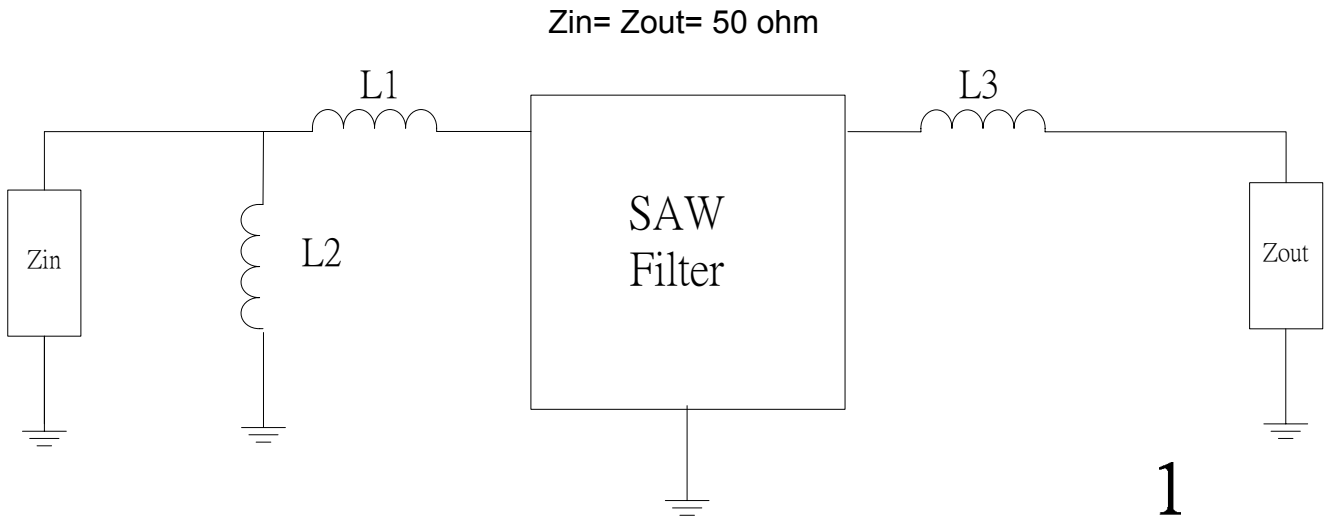
3. S11 Smith Chart: (span : 20MHz)



4. S22 Smith Chart (span : 20MHz)

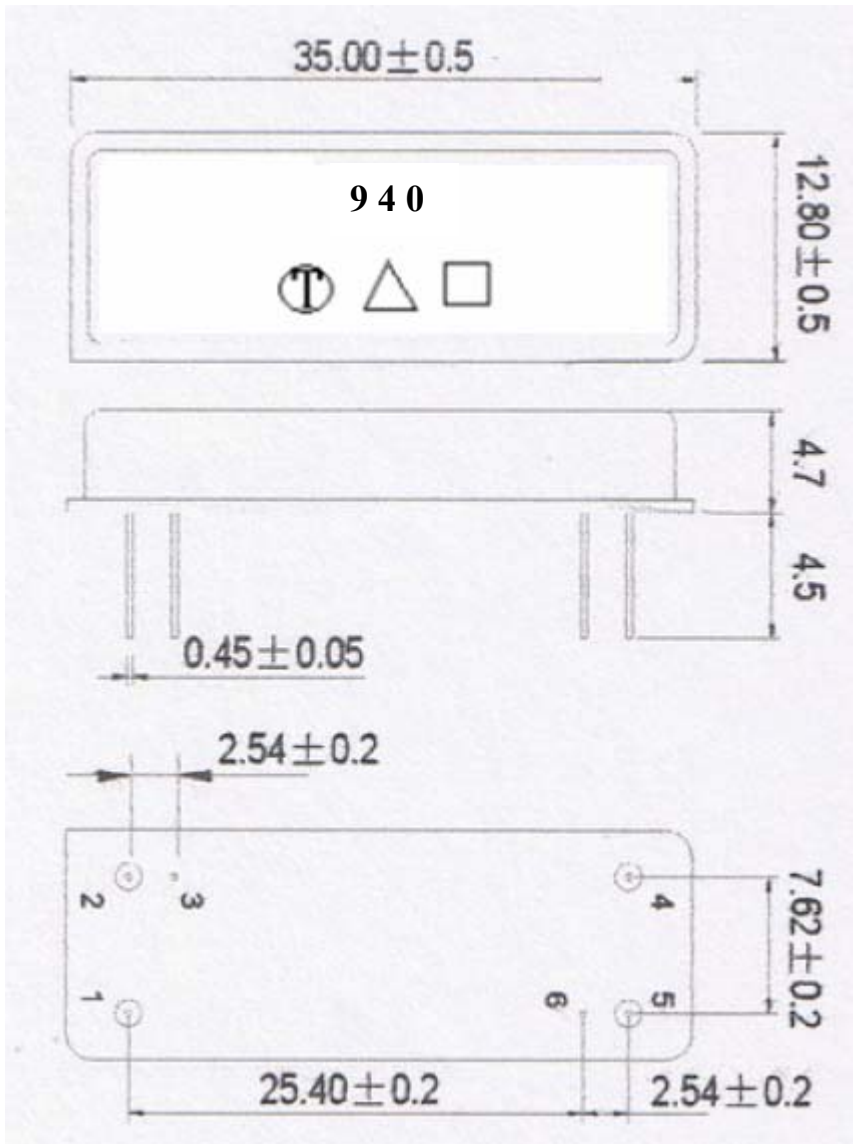


E. MEASUREMENT CIRCUIT



$L1=150\text{nH}, L2=36\text{nH}, L3=270\text{nH}$

F. OUTLINE DRAWING:



Pin 1: RF input

Pin 4: RF output

Pin 3,6: Case Ground

Pin 2, 5: Ground

□: Week Code (Follow the table from planner each year)

Unit : mm

△ : Product / Year Code

Year	2009	2010	2011	2012
Product Code	B	b	<u>B</u>	<u>b</u>

G. RECOMMENDED REFLOW PROFILE:

