



TAI-SAW TECHNOLOGY CO., LTD.

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

TEL: 886-3-4690038 FAX: 886-3-4697532

E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

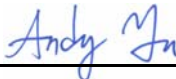
Product Specifications Approval Sheet

Product Name: 70MHz IF SAW Filter (BW=35 MHz)

TST Parts No.: TB1109A

Customer Parts No.: _____

Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Andy Yu 

Approval by: _____ Bob Chau 

Date: _____ 2013/11/13

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 70MHz (SMD 13.3x6.5 mm)

MODEL NO.: TB1109A

Rev. NO. 1.0

A. MAXIMUM RATINGS:

1. Operating Temperature: -30°C to 60°C
2. Storage Temperature: -40°C to 85°C
3. Input Power: 10dBm

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

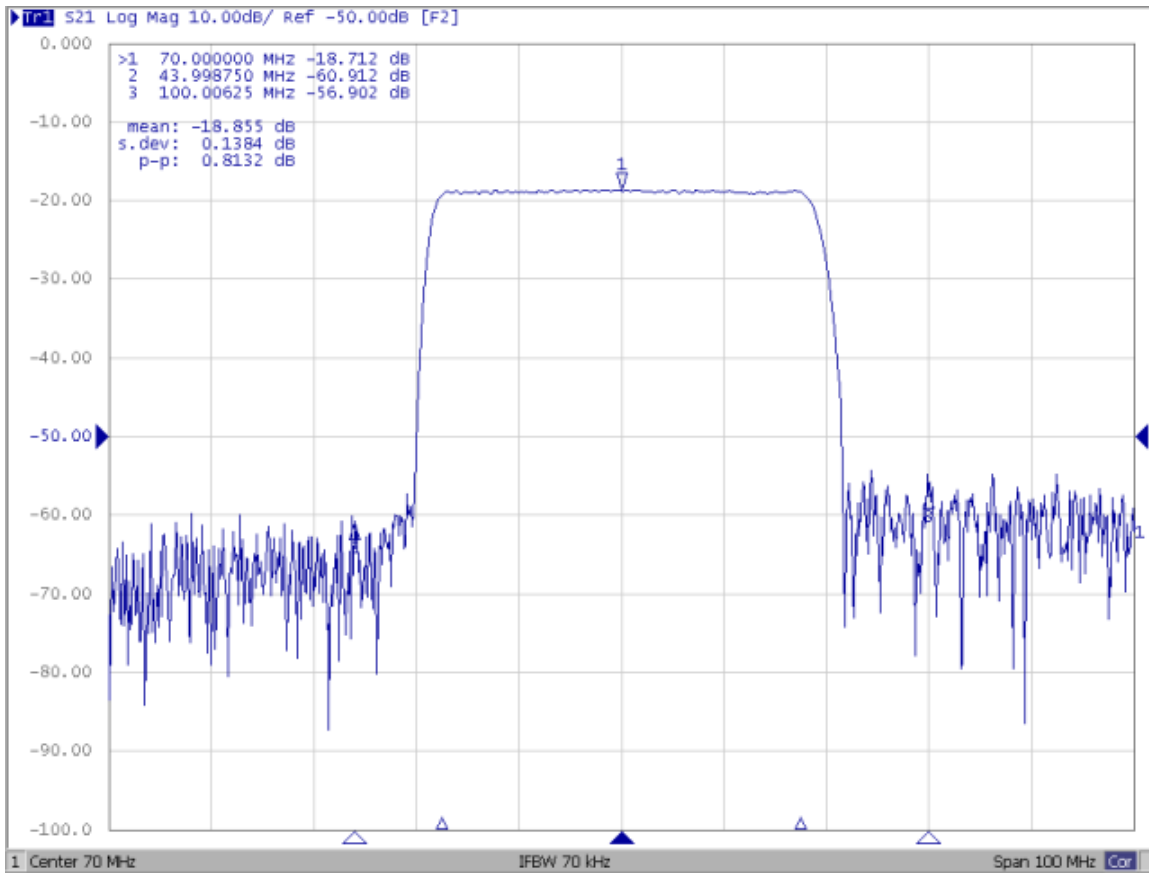
B. ELECTRICAL CHARACTERISTICS:

1. Ambient Temperature: 25 °C

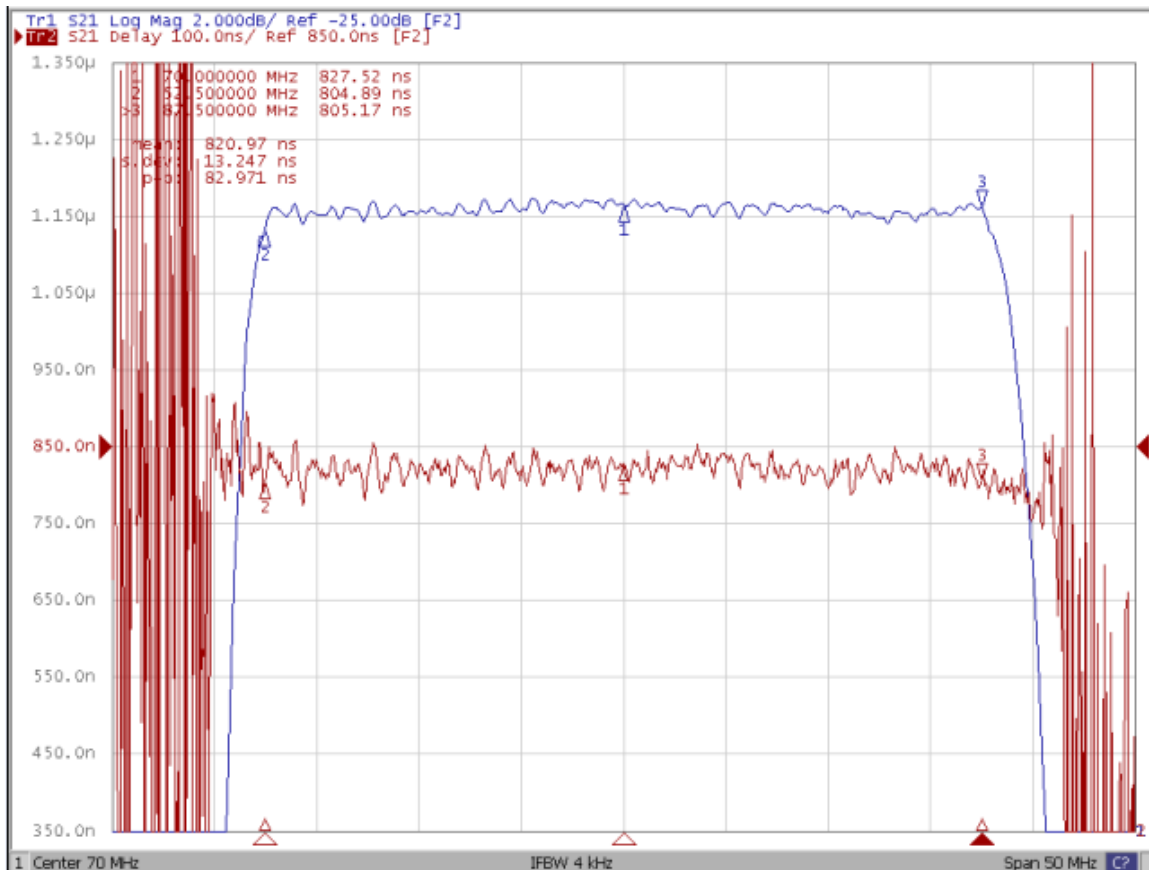
Item	Unit	Min.	Type.	Max.
Center frequency, F_c	MHz	-	70	-
Insertion Loss, IL	dB	-	18.4	20
Upper -1dB frequency	MHz	87.5	88.1	-
Lower -1dB frequency	MHz	-	52.2	52.5
Upper -45dB frequency	MHz	-	91.7	94
Lower -45dB frequency	MHz	47	49.1	-
Ultimate rejection				
1MHz~45MHz	dB	40	43	
95MHz~120MHz	dB	35	40	
Passband Ripple 52.5 – 87.5 MHz	dB	-	0.81	1.2
Absolute Group Time Delay	nsec	790	820	850
Temperature Coefficient	ppm/°C	-	-72	-
Source Impedance (Balanced)	Ohm	-	50	-
Load Impedance (Balanced)	Ohm	-	50	-

C. Frequency Characteristics :

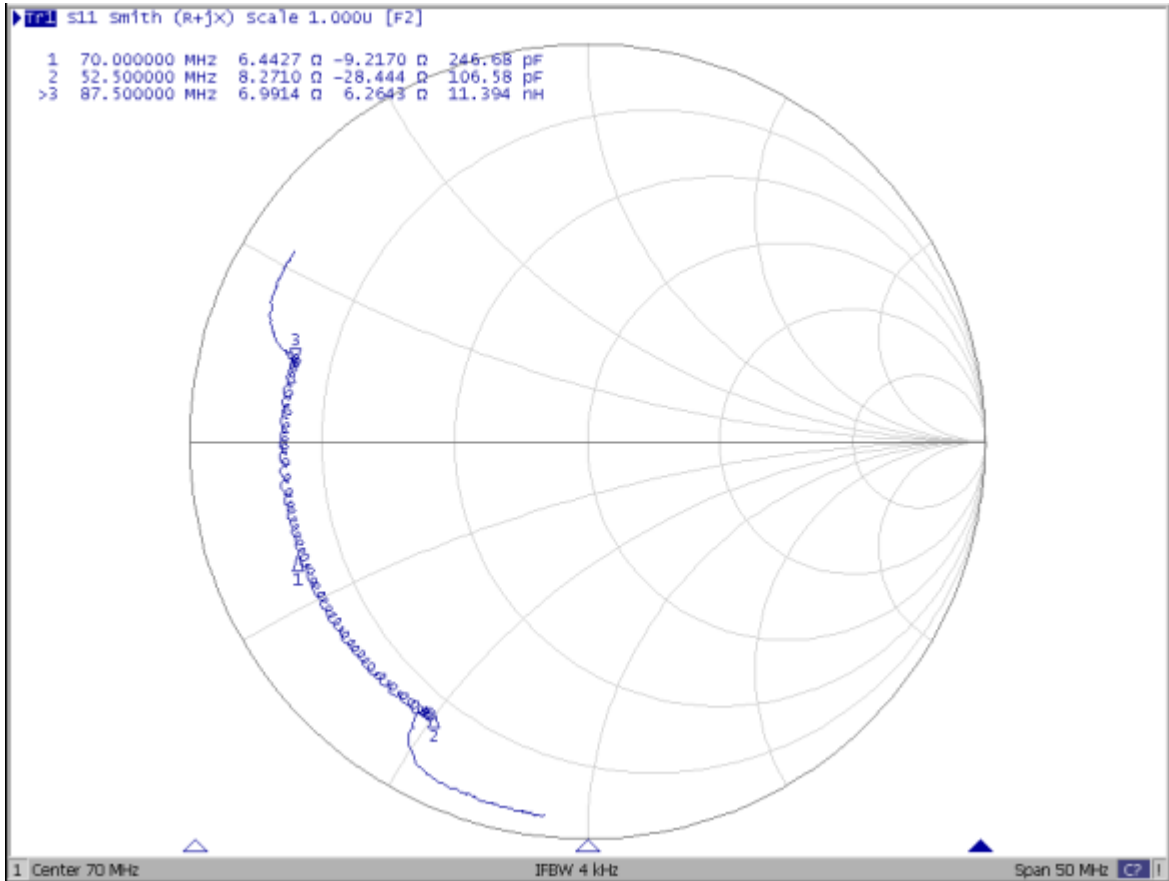
(1) Wide band Response:(span 100MHz)



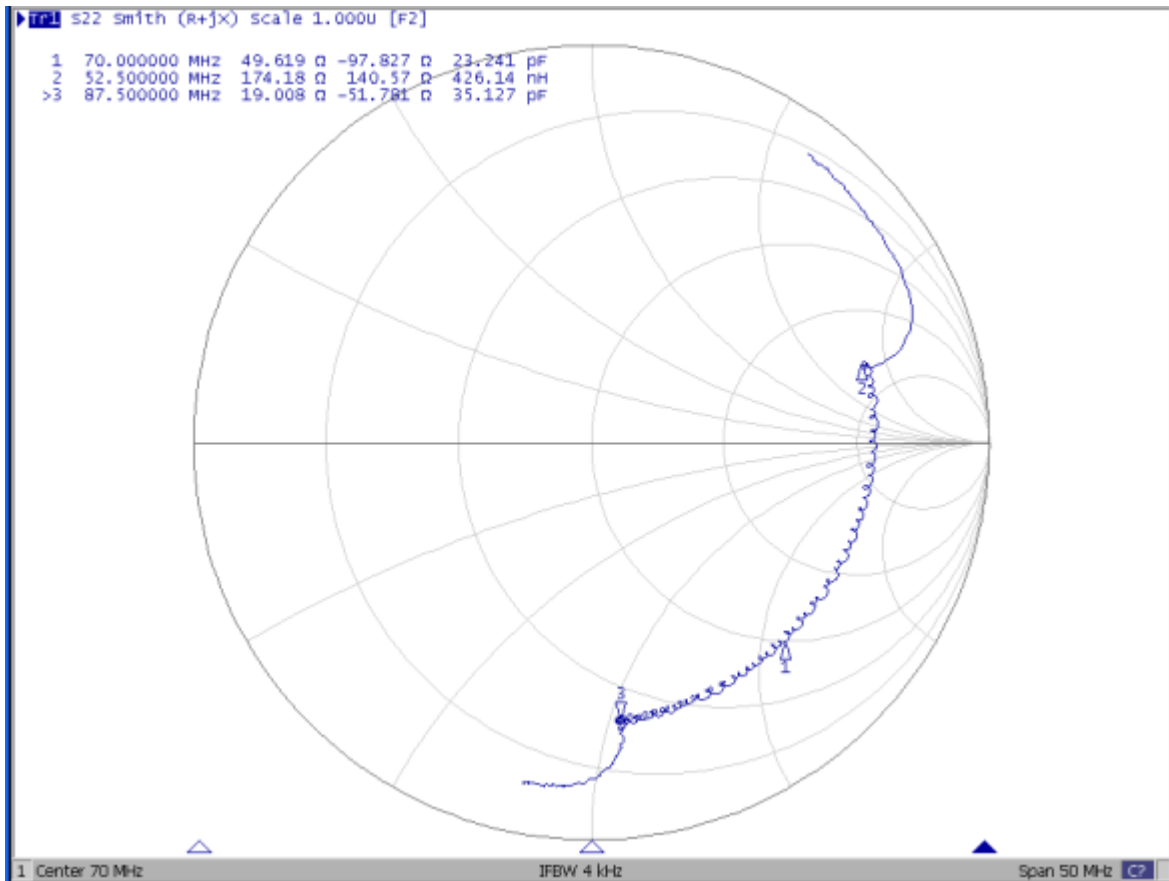
(2) Pass band Response and Group Time Delay response:(span 50MHz)



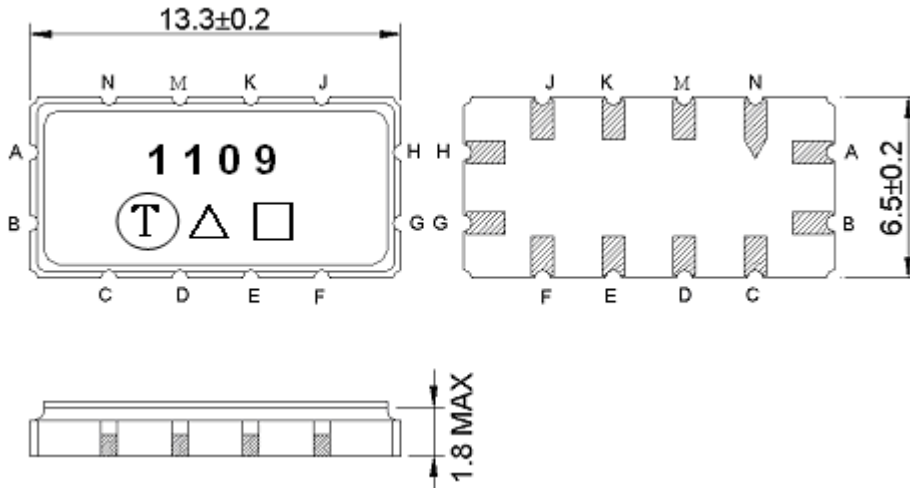
(3) S11 Smith-Chart: (span 50MHz)



(4) S22 Smith-Chart: (span 50MHz)



D. Outline Drawing:



Pin A: RF input

Pin B: RF Balanced input (Ground pin for single)

Pin G: RF output

Pin H: RF Balanced Output (Ground pin for single)

Pin C, D, E, F, J, K, N, M: To be Ground

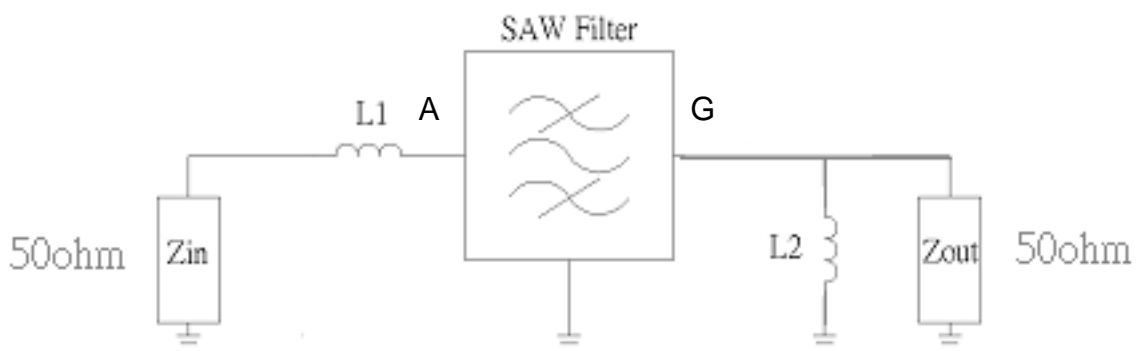
□ : Week Code (Follow the table from planner each year)

Unit : mm

△ : Product / Year Code

Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	<u>B</u>	<u>b</u>

E. Matching Circuit:



L1=90nH; L2=110nH.

G. Recommended Reflow Profile:

