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

Approval Sheet for Product Specification

Issued Date:

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

TST Parts No.: TB0474A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: Andy Yu

Approval by: Francis Chen

Date: 05/05/2008

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SAW Filter 70MHz (SMD 13.3×6.5 mm)
MODEL NO.: TB0474A Rev. NO. 1.0

RoHS Compliant
Lead free
Lead-free soldering

A. MAXIMUM RATINGS:

1. Operating Temperature: -30°C to 60°C
2. Storage Temperature: -40°C to 85°C
3. Input Power: 15dBm

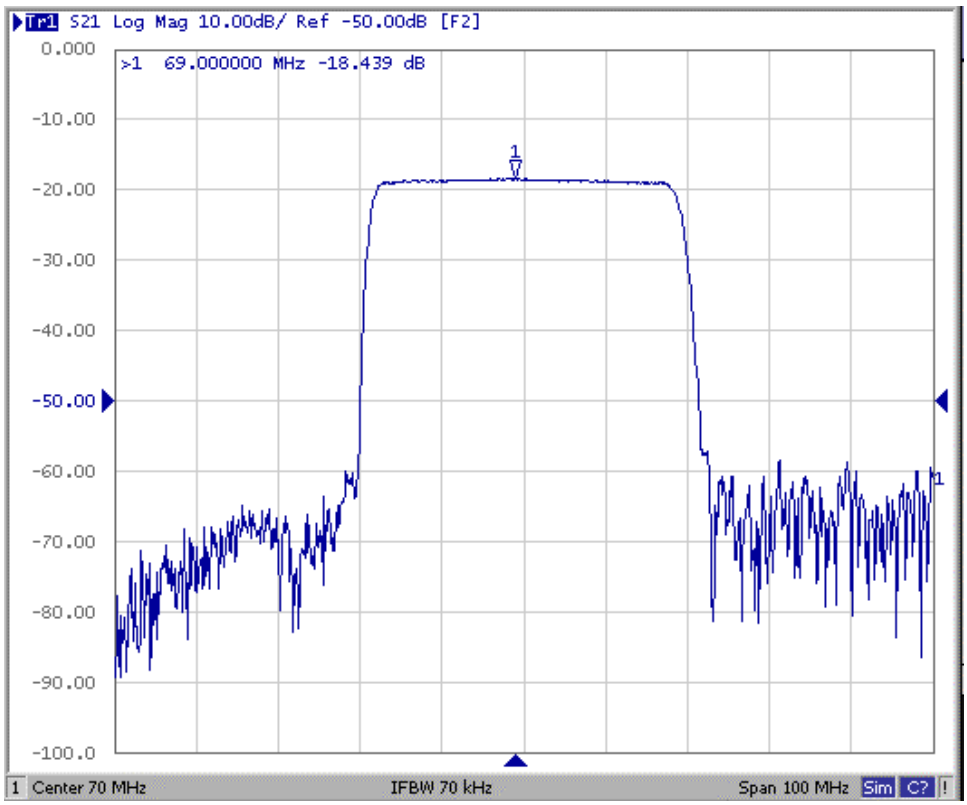
B. ELECTRICAL CHARACTERISTICS:

1. Ambient Temperature: 25 °C

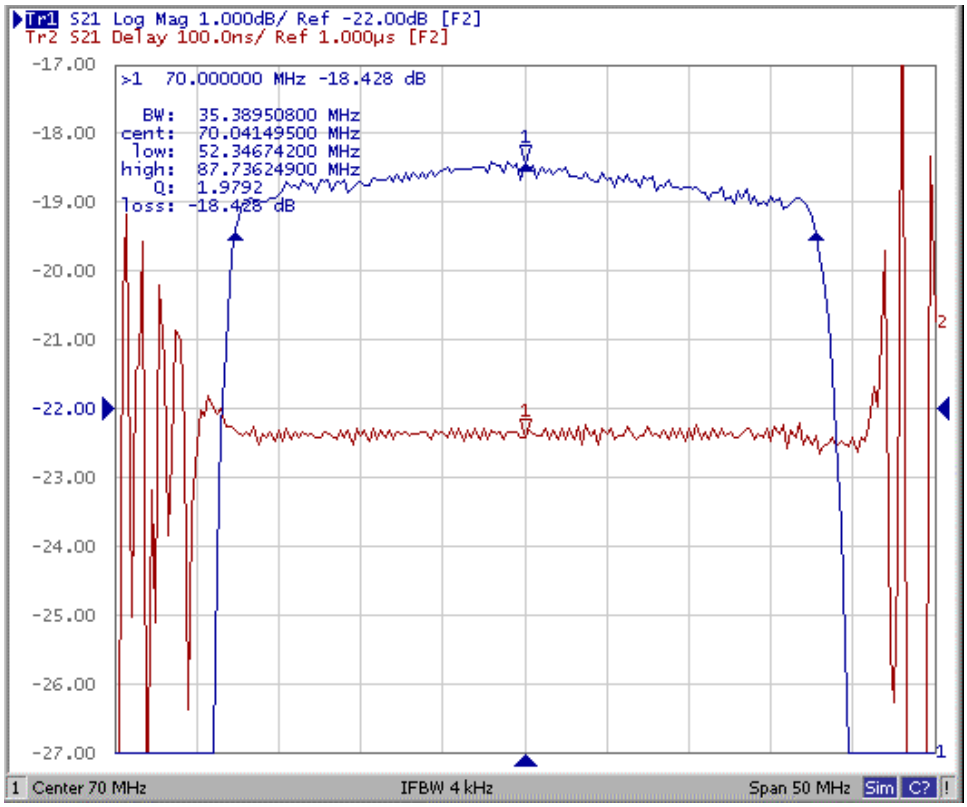
Item	Unit	Min.	Type.	Max.
Center frequency, **Fc**	MHz	-	70	-
Insertion Loss, **IL**	dB	-	18.4	20
Upper -1dB frequency	MHz	87.5	87.7	-
Lower -1dB frequency	MHz	-	52.2	52.5
Upper -45dB frequency	MHz	-	92.7	94
Lower -45dB frequency	MHz	47	49.5	-
Ultimate rejection 1MHz~45MHz 95MHz~120MHz	 dB dB	 40 35	 47 41	
Passband Ripple 52.5 – 87.5 MHz	dB	-	0.85	1.2
Absolute Group Time Delay	nsec	-	960	1000
Temperature Coefficient	ppm/°C	-	-72	-
Source Impedance (Balanced)	Ohm	-	50	-
Load Impedance (Balanced)	Ohm	-	50	-

C. Frequency Characteristics :

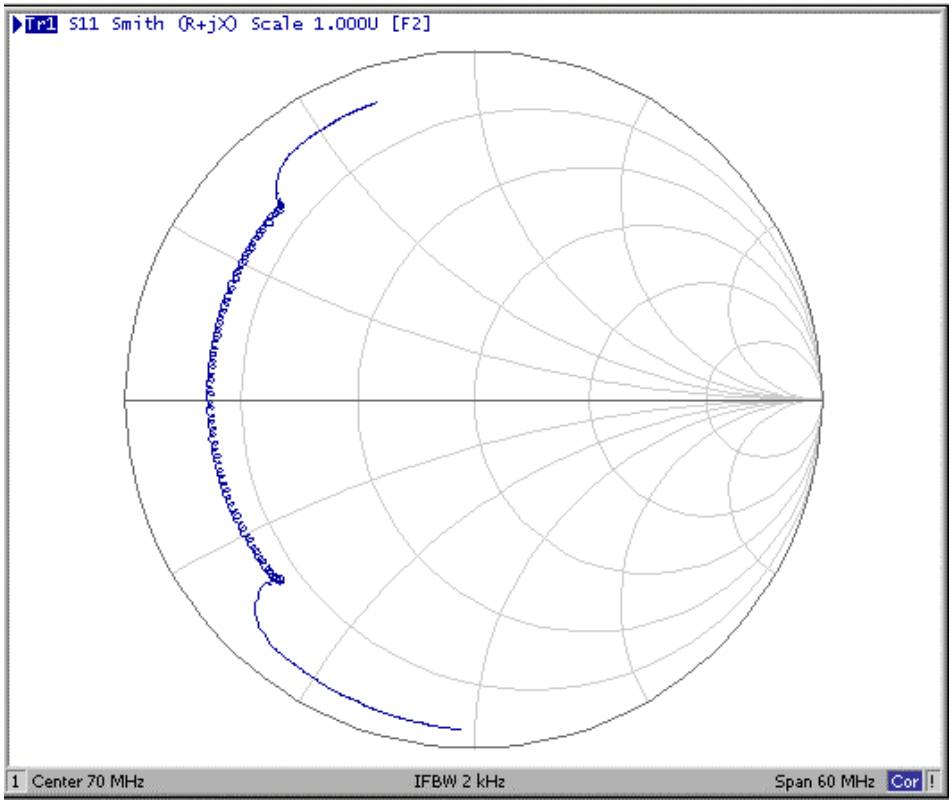
(1) Wide band Response:(span 100MHz)



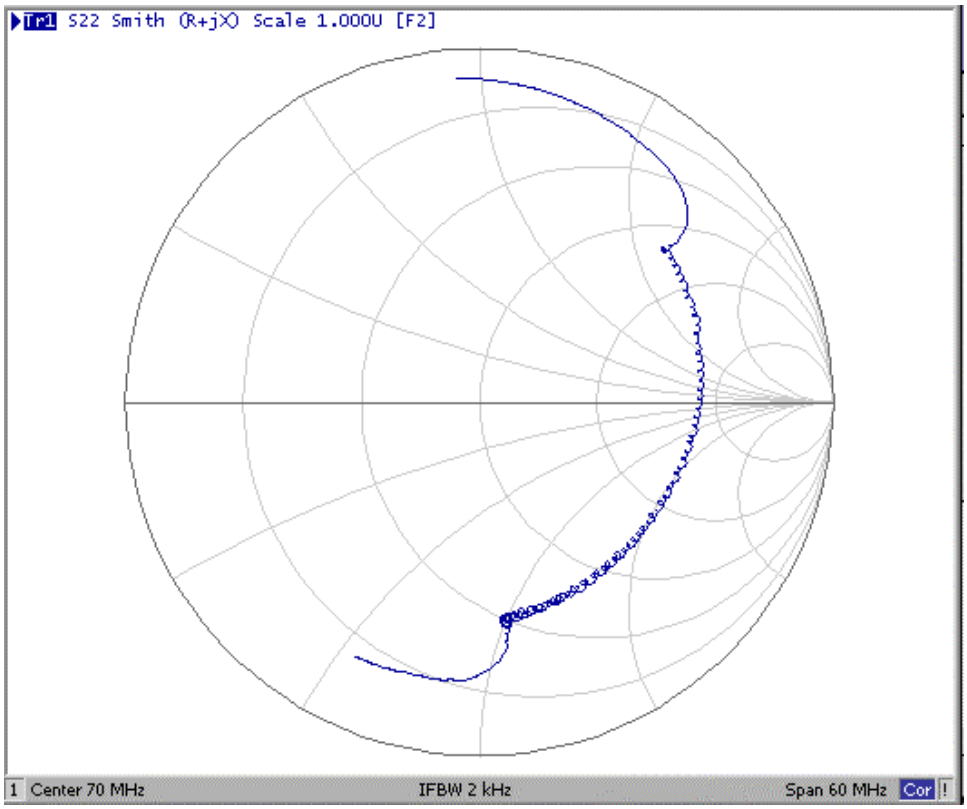
(2) Pass band Response and Group Time Delay response:(span 50MHz)



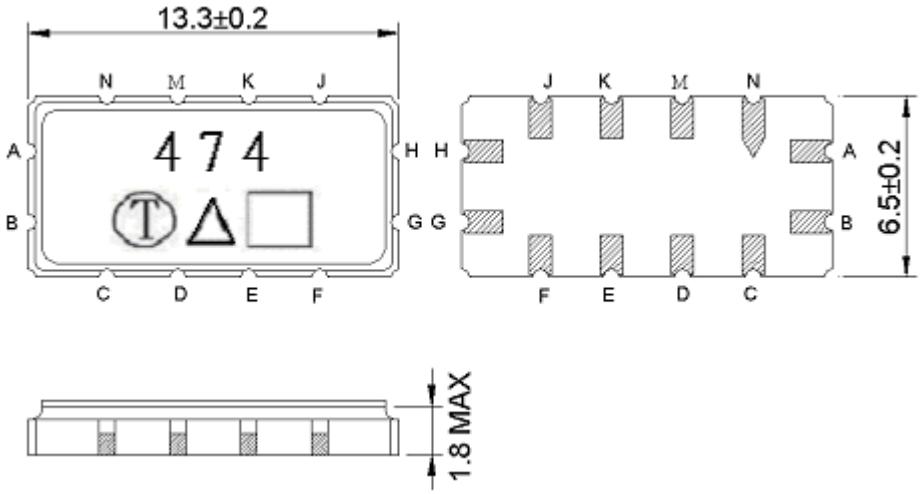
(3)S11 Smith-Chart: (span 60MHz)



(4)S22 Smith-Chart: (span 60MHz)



D. Outline Drawing:



Pin A=B: RF input

Pin H=G: RF output

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

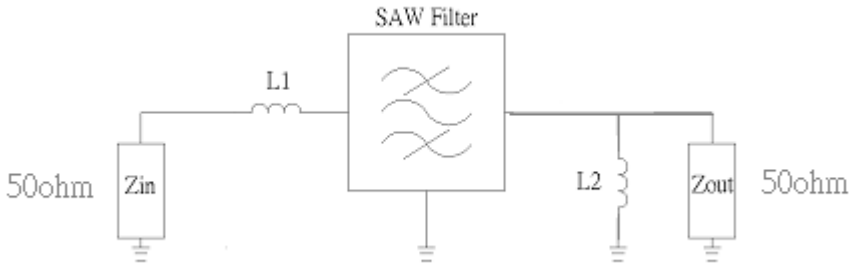
□ : Week Code (Follow the table from planner each year)

Unit : mm

△ : Product / Year Code

Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	B	b

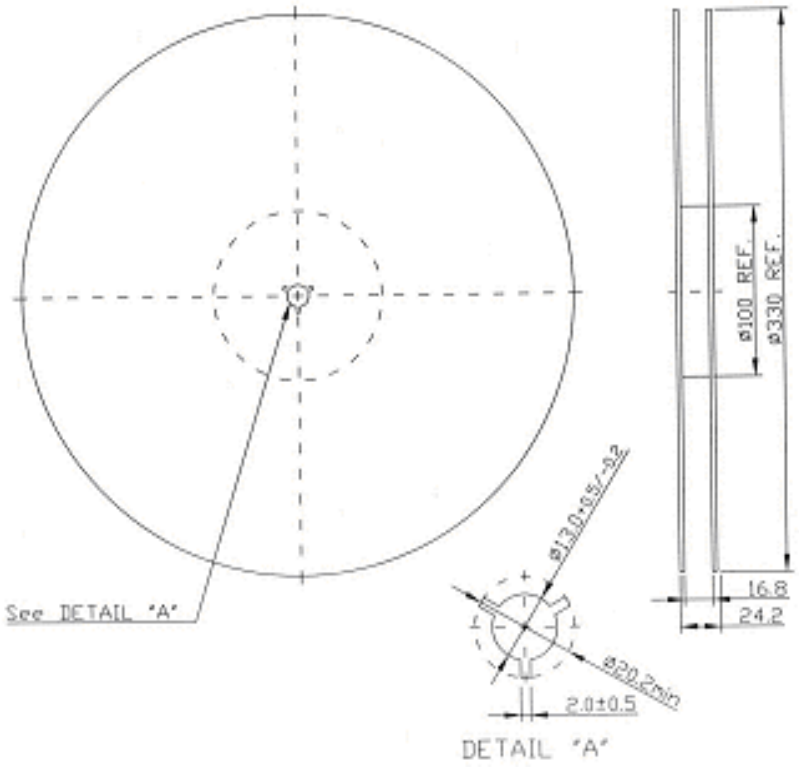
E. Matching Circuit:



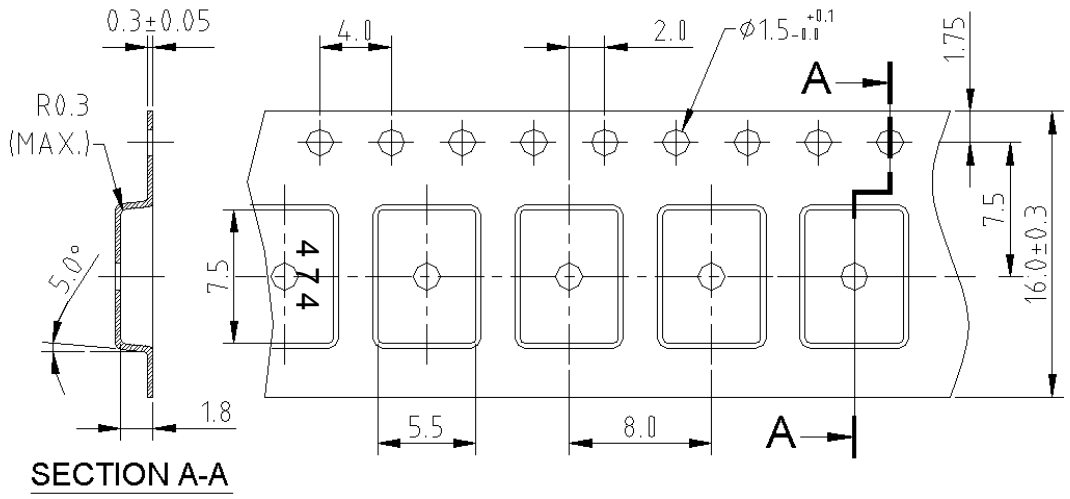
L1=90nH; L2=110nH.

F.PACKING:

1.REEL DIMENSION



2.TAPE DIMENSION



Direction of feed

G. Recommended Reflow Profile: