



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 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: SAW IF Filter 279.7 MHz 55MHz BW (SMD 5.0mm x 5.0 mm)

TST Parts No.: TB0969A

Customer Parts No.: _____

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

Checked by: _____ Kazuma Lee 

Approval by: _____ Francis Chen 

Date: _____ 03 / 02 / 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.



TAI-SAW TECHNOLOGY CO., LTD.

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

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

E-mail: tstsales3@mail.taisaw.com Web: www.taisaw.com

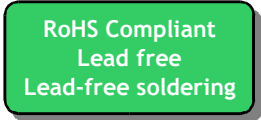
SAW Filter 279.7MHz 55MHz BW (SMD 5.0×5.0 mm)

MODEL NO.: TB0969A

REV. NO.1

A. MAXIMUM RATING:

1. Operating temperature range: -30°C to 85°C
2. Storage temperature range: -40°C to 85°C
3. Input Power Level : 10 dBm
4. Maximum DC Voltage : 10V



B. Characteristics :

Item	Unit	Min.	Type.	Max.
Center frequency, Fc	MHz	-	279.7	-
Insertion Loss, IL	dB	-	13.5	16.0
-1dB bandwidth	MHz	55	57.5	-
-40dB bandwidth	MHz	-	71	80
Passband Ripple Fc+/- 25MHz	dB	-	0.5	1.0
Attenuation:(Reference level from Min IL)				
DC ~ 180MHz	dB	45	55	-
180MHz ~ 215MHz	dB	40	54	-
345MHz ~ 380MHz	dB	40	50	-
380MHz ~ 480MHz	dB	45	55	-
480MHz ~640MHz	dB	35	42	-
640MHz ~ 1000MHz	dB	45	65	-
Temperature Coefficient	ppm/°C	-	-94	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

C. Frequency Characteristics :

(1) Wide band Response:(span 400MHz)

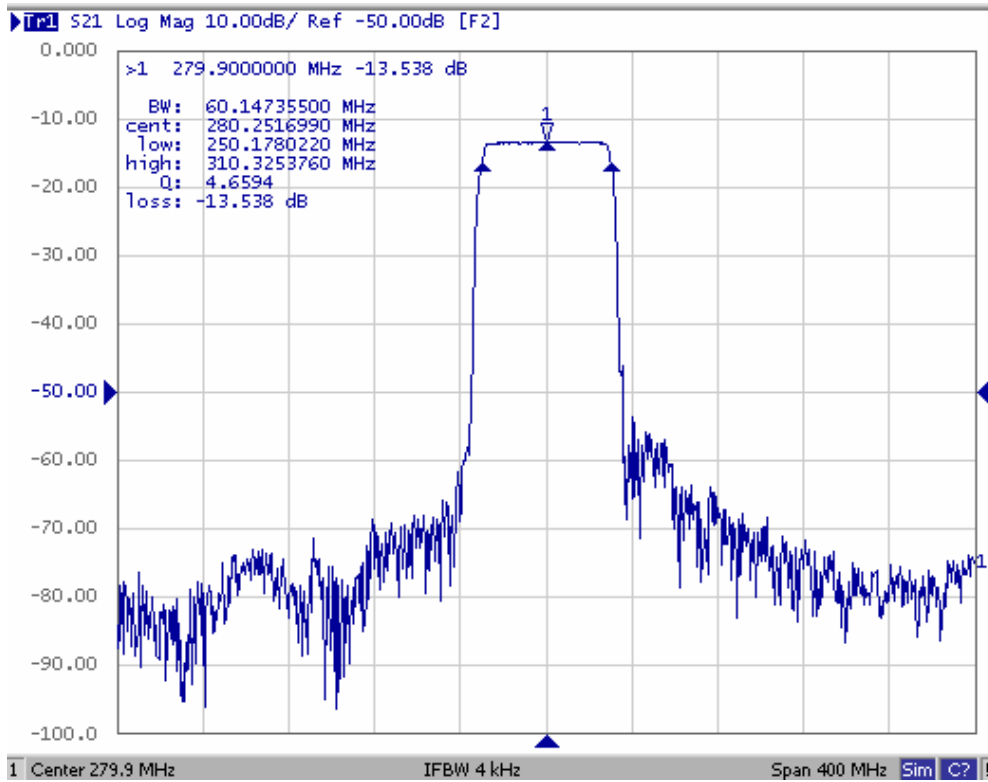


Fig1. Horizontal: 40MHz/Div Vertical: 10dB/Div

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

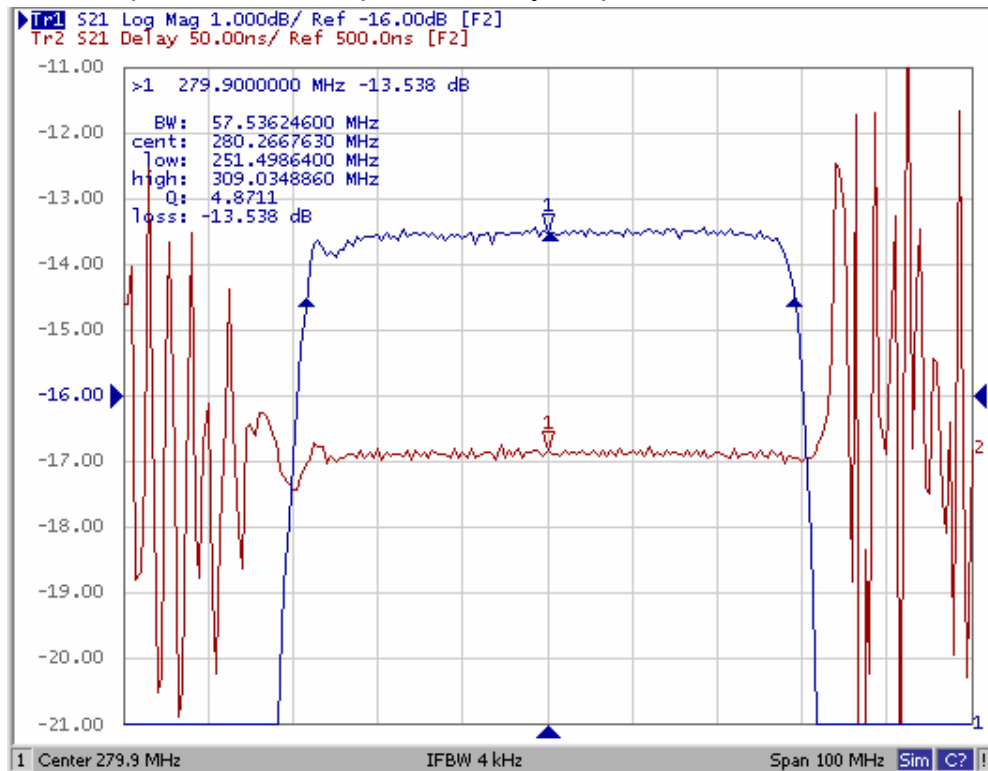
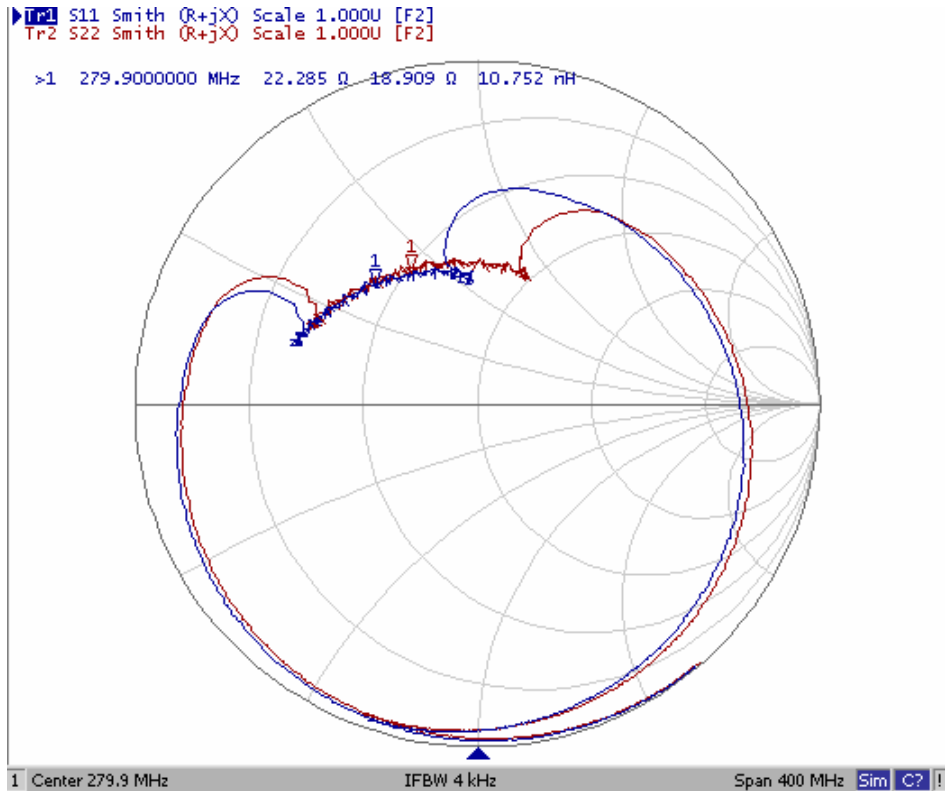


Fig2. Horizontal: 10MHz/Div Vertical: 1dB/Div
Vertical: 50ns/Div

(3) Smith Chart:



(4) Wide Band:

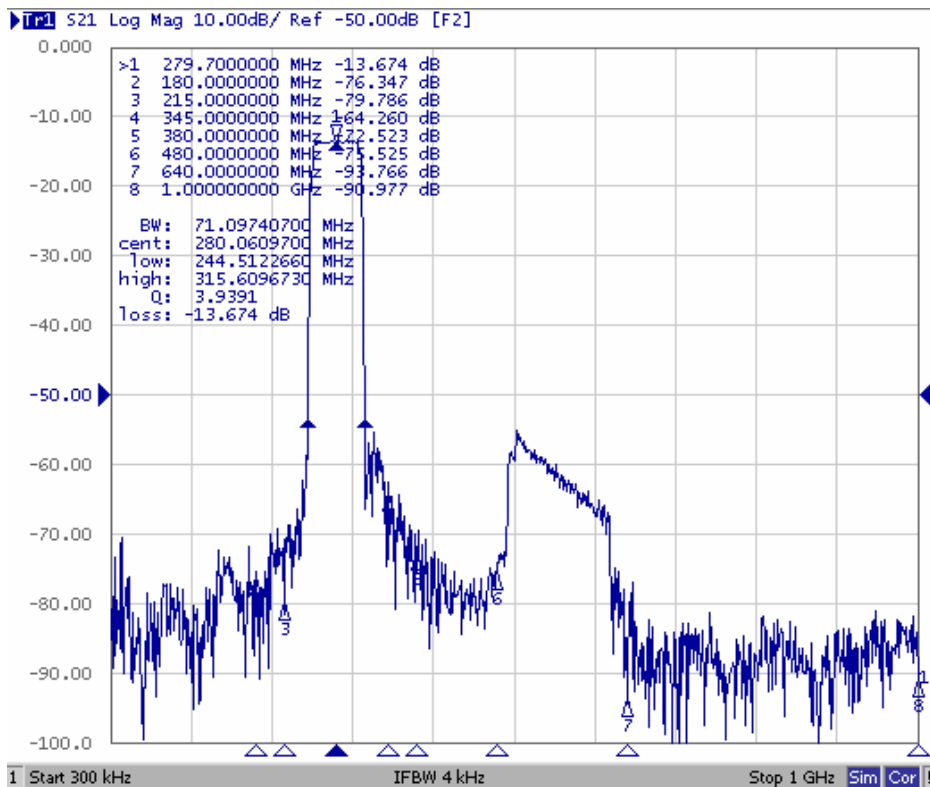
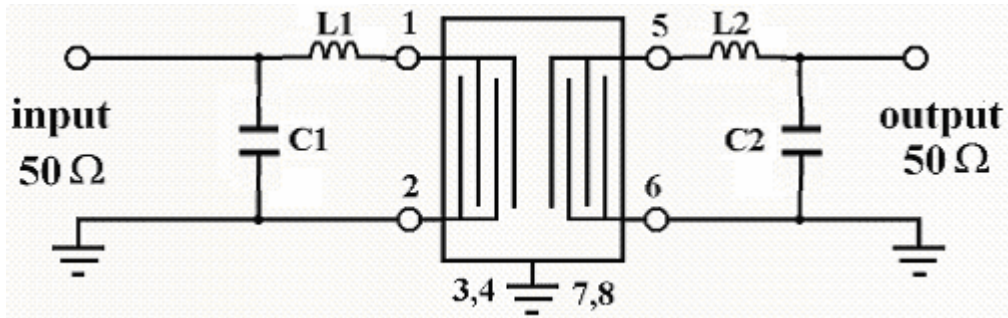


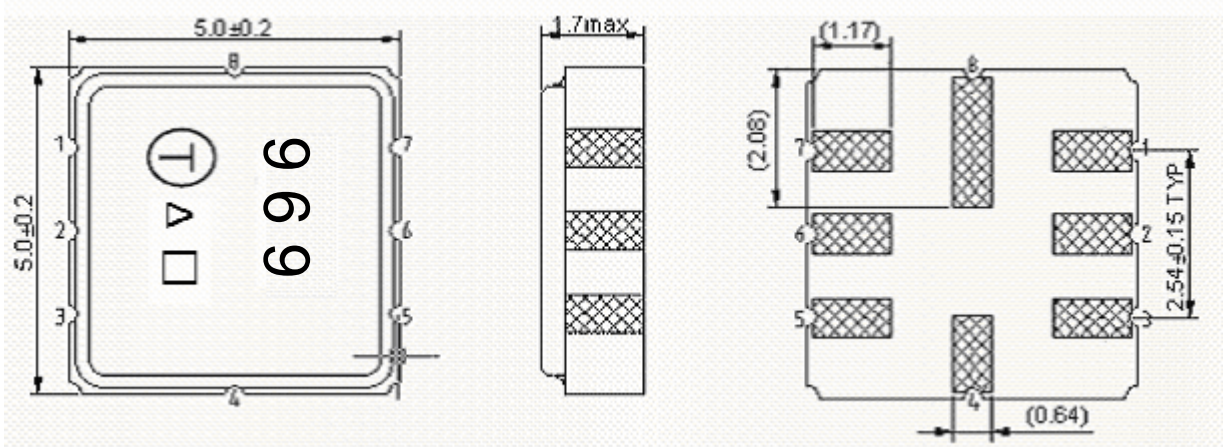
Fig4. Horizontal: 100MHz/Div Vertical: 10dB/Div

D. Matching Circuit:



L1=43n L2=47nH C1=8pF C2=8pF

E. Outline Drawing:



#3 –Input

#2 –Input ground

#7 – Output

#6 – Output ground

#1,4,5,8 – Ground

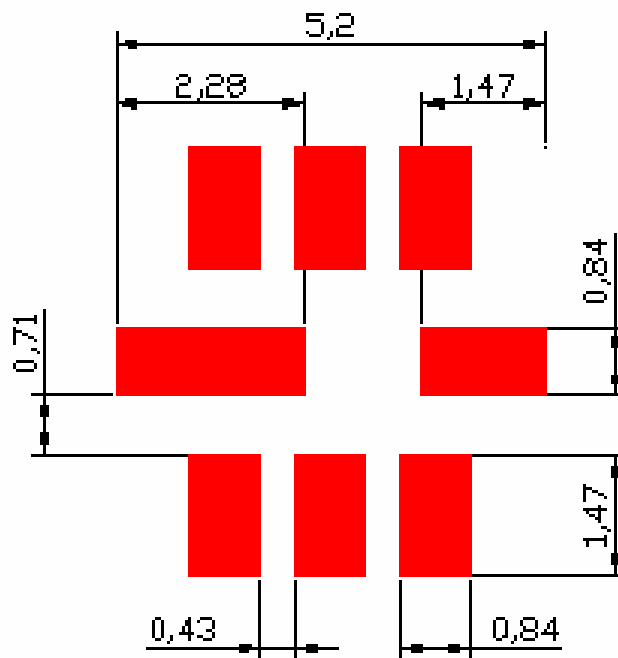
□ : Week Code (Follow the table from planner each year)

Unit : mm

△ : Product / Year Code

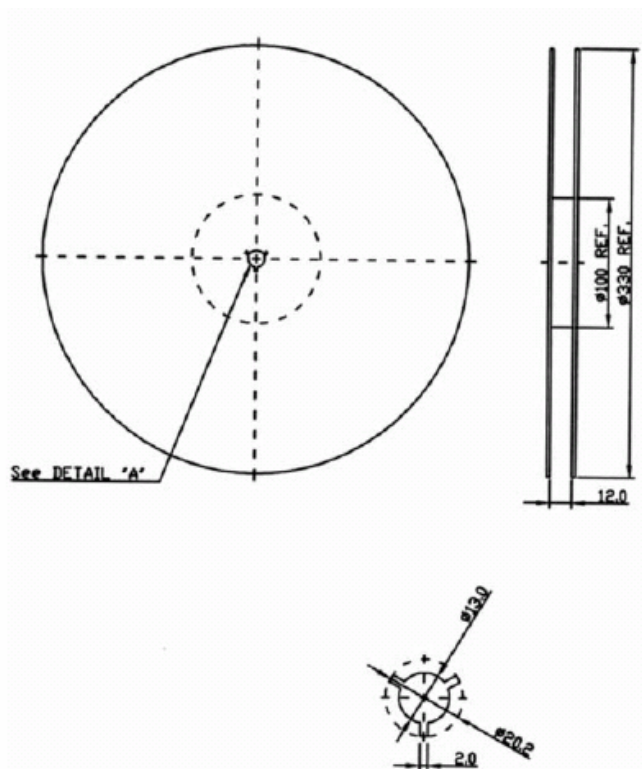
Year	2009 2013	2010 2014	2011 2015	2012 2016
Product Code	B	b	<u>B</u>	<u>b</u>

F. PCB Footprint:

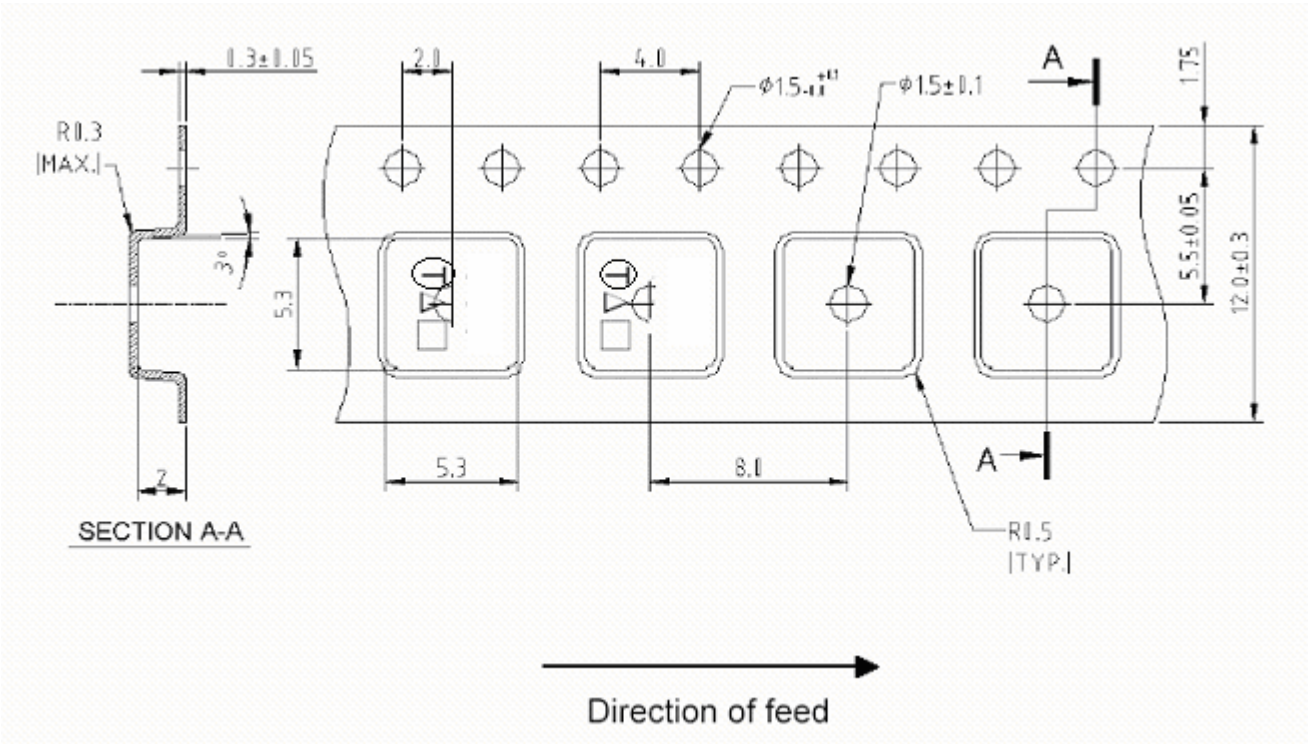


G. PACKING:

1. REEL DIMENSION:



2. TAPE DIMENSION:



H. RECOMMENDED REFLOW PROFILE:

