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: 169.04 MHz 10.8MHz BW SMD 13.3 x 6.5 mm SAW IF Filter

TST Parts No.: TB1006A

Customer Parts No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: Kazuma Lee

Approval by: Francis Chen

Date: 08 / 11 / 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 169.04MHz 10.8MHz BW (SMD 13.3×6.5 mm)
MODEL NO.: TB1006A REV. NO.1

A. MAXIMUM RATING:

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

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic **S**ensitive **D**evice

B. Characteristics :

Item	Unit	Min.	Type.	Max.
Center frequency, **Fc**	MHz	-	169.04	-
Insertion Loss, **IL**	dB	-	7.2	10.0
-1dB bandwidth	MHz	10.8	12	-
-3dB bandwidth	MHz	-	13.4	-
-40dB bandwidth	MHz	-	17.7	18.3
Passband Ripple Fc+/- 4.85MHz	dB	-	0.4	1.0
Group Delay variation Fc+/- 4.85MHz	nsec	-	45	80
Absolute Delay	unec	-	0.68	-
Ultimate	dB	40	60	-
Temperature Coefficient	ppm/°C	-	-94	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

C. Frequency Characteristics :

(1) Wide band Response:(span 200MHz) (Typical performance at 25^0C)

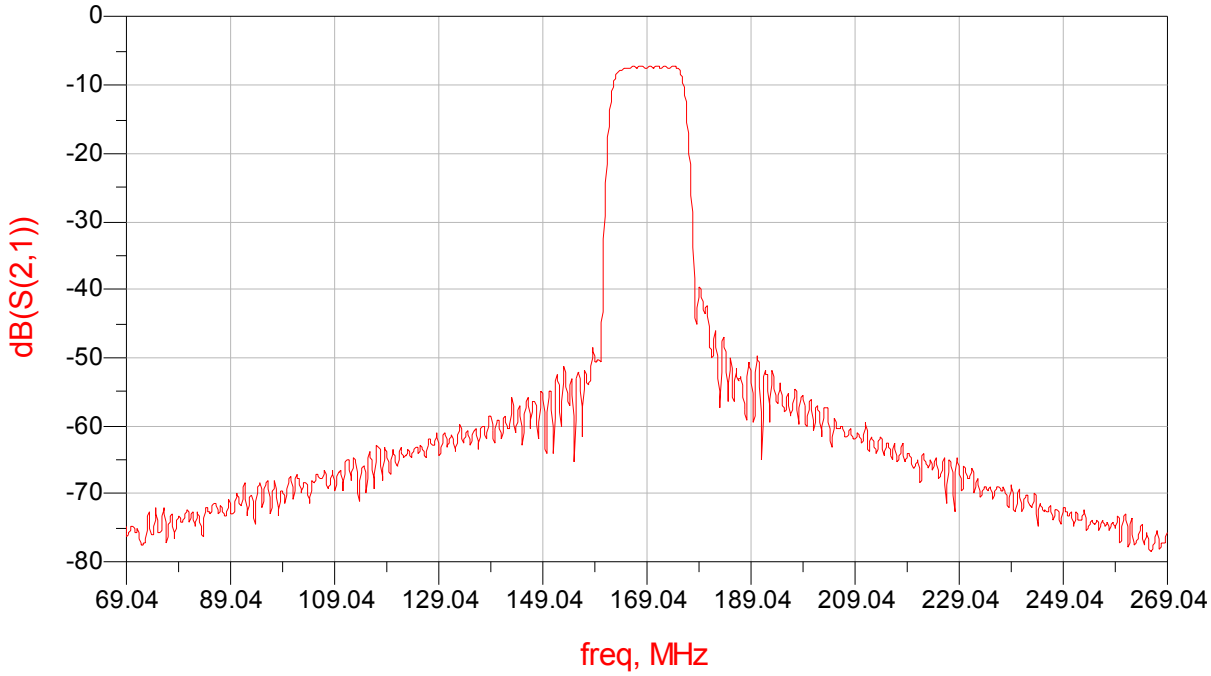


Fig1. Horizontal: 20MHz/Div Vertical: 10dB/Div

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

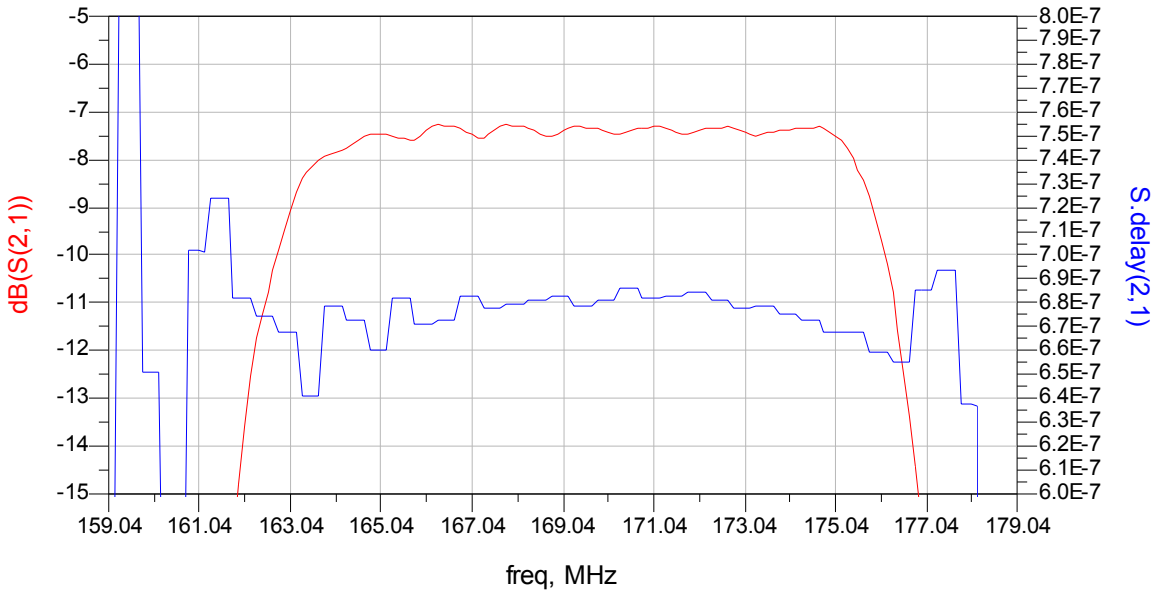
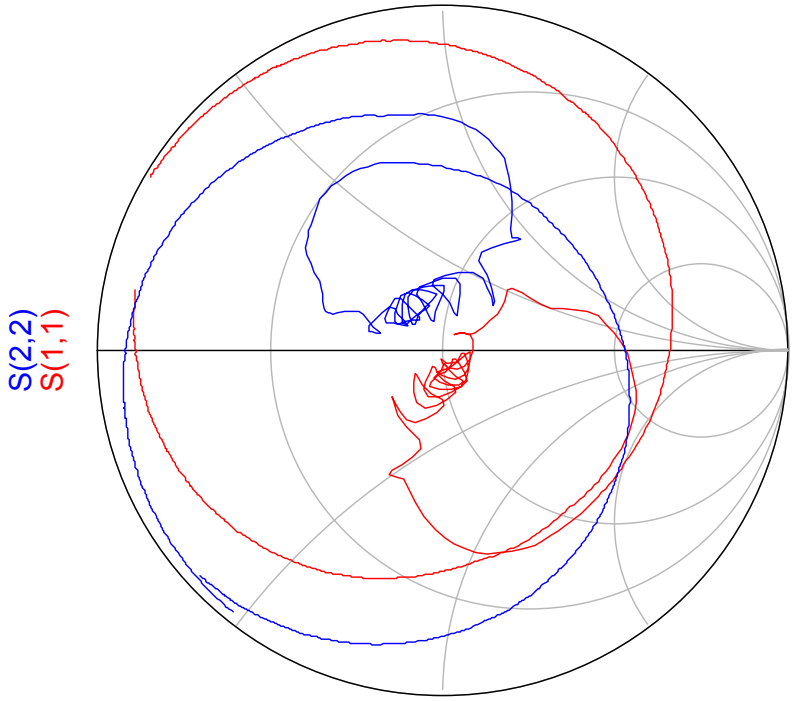


Fig2. Horizontal: 2MHz/Div Vertical: 1dB/Div
Vertical: 100ns/Div

(3) Smith Chart:



freq (69.04MHz to 269.0MHz)

(4) Wide Band Response:

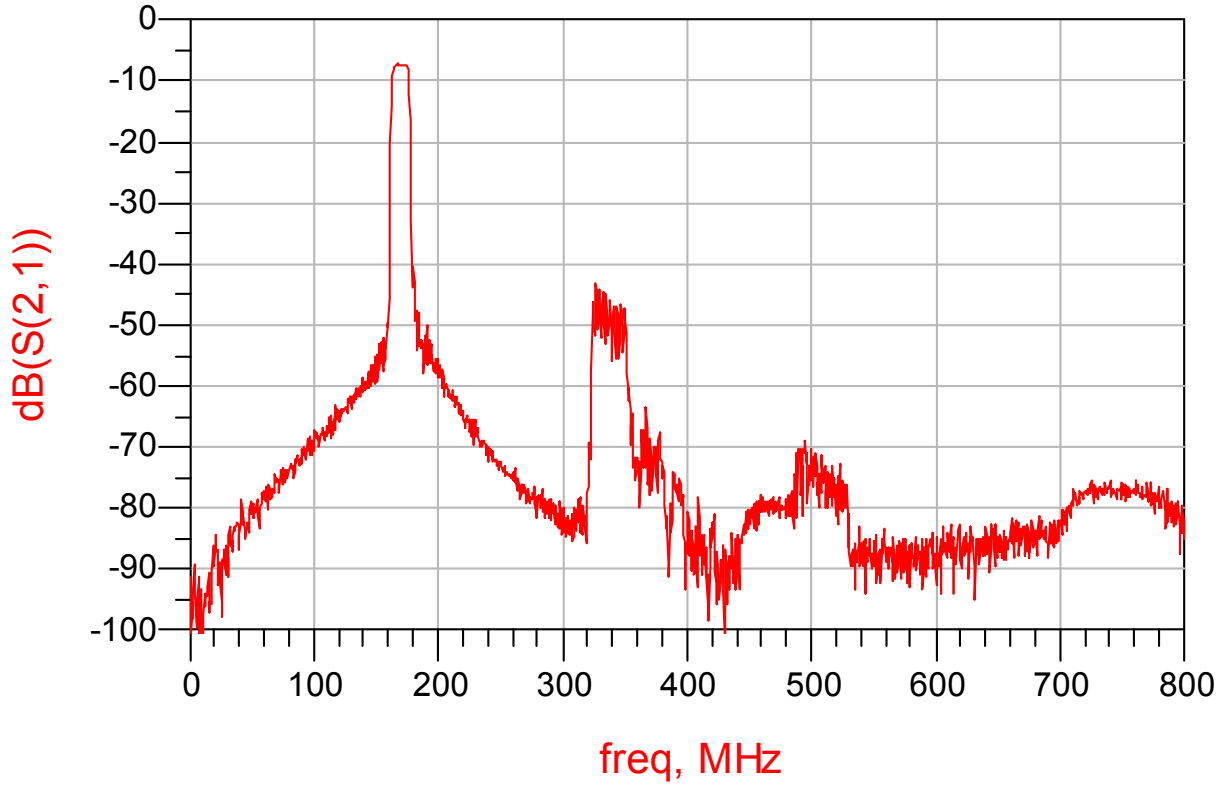
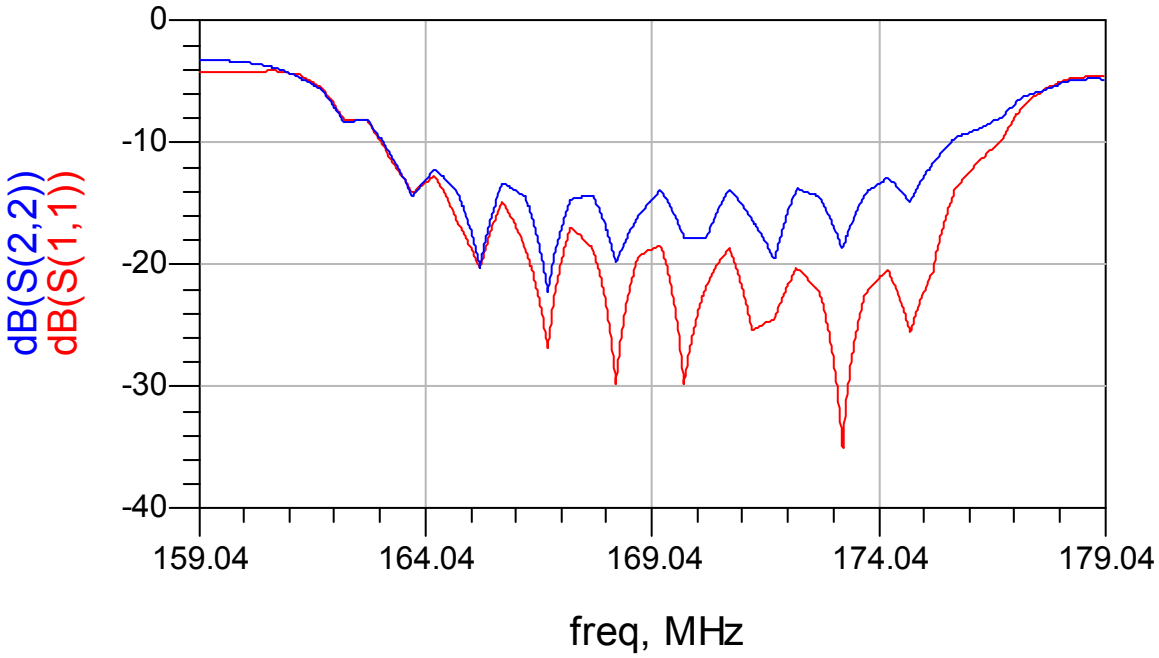
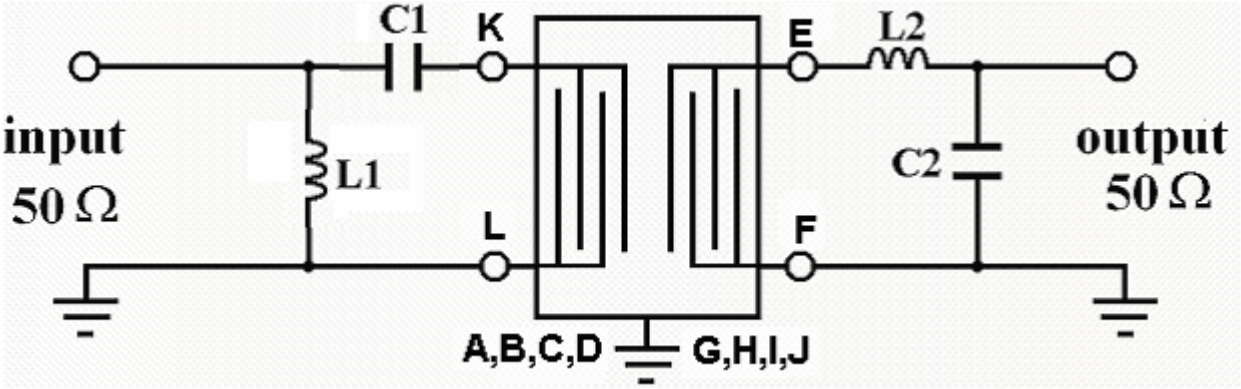


Fig4. Horizontal: 80MHz/Div Vertical: 10dB/Div

(5) Reflection Functioms:

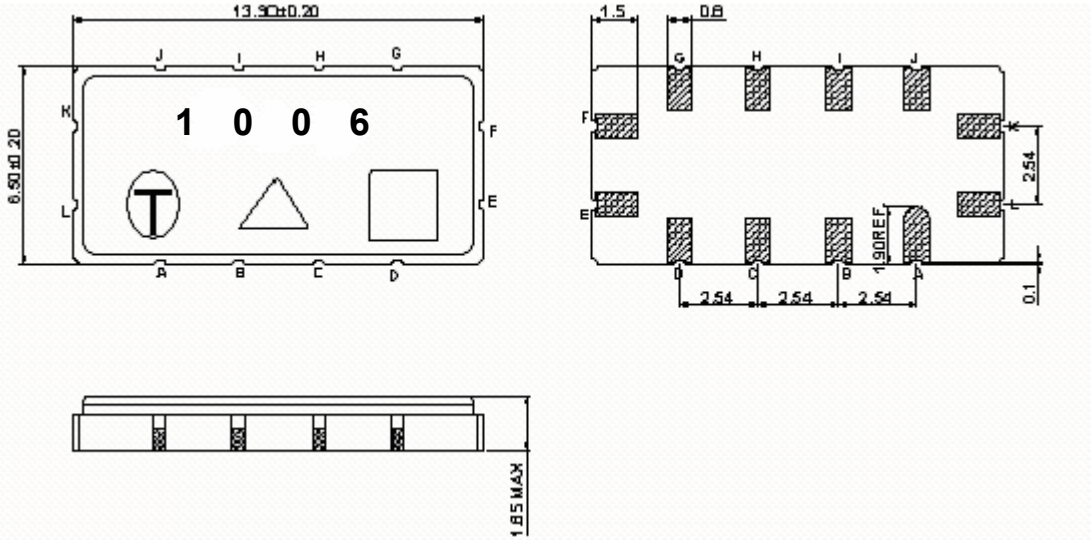


D. Matching Circuit:



L1=24nH C1= 68pF L2=27nH C2=36pF

E. Outline Drawing:



#K : Input

#L : Input Ground

#E : Output

#F : Output Ground

#A,B,C,D,G,H,I,J : Ground

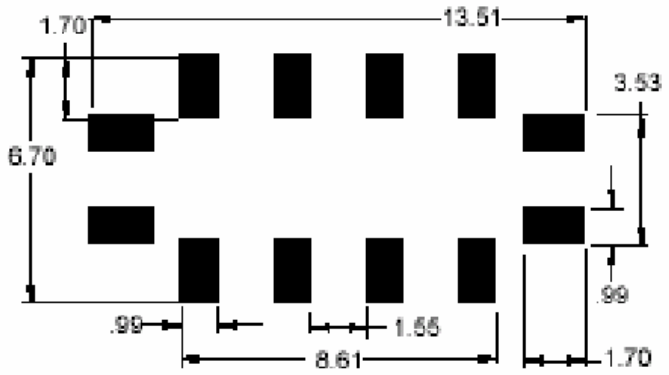
□: Week Code (Follow the table from planner each year)

Unit: mm

△ : Product / Year Code

Year	2009 2013	2010 2014	2011 2015	2012 2016
Product Code	B	b	B	b

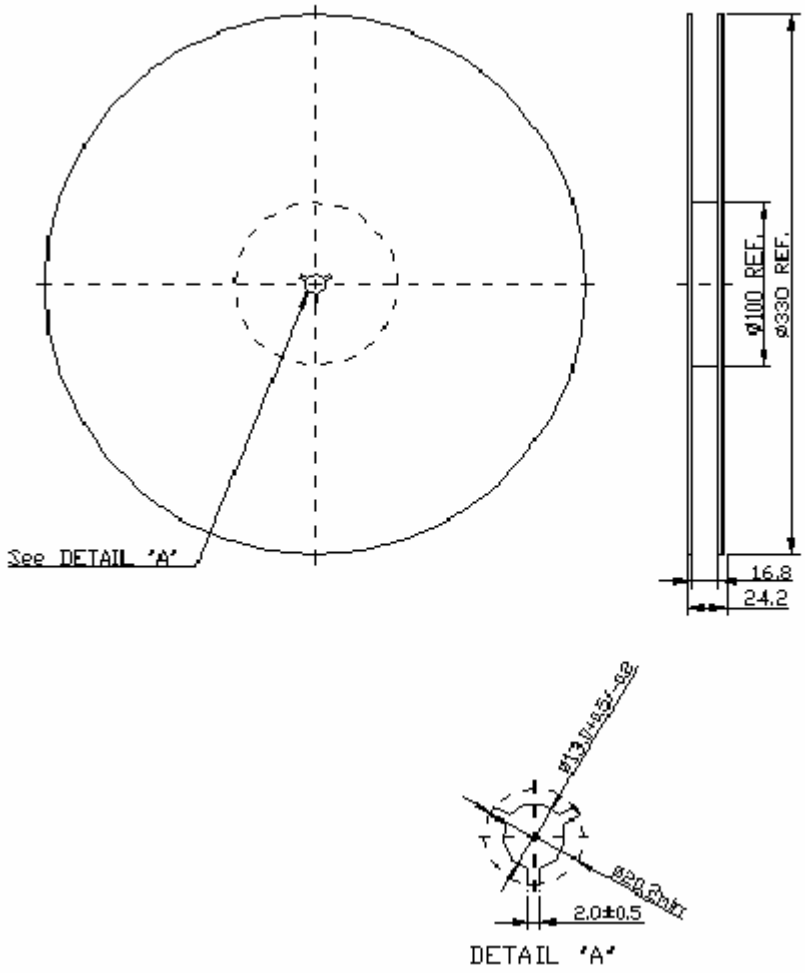
F. PCB Footprint:



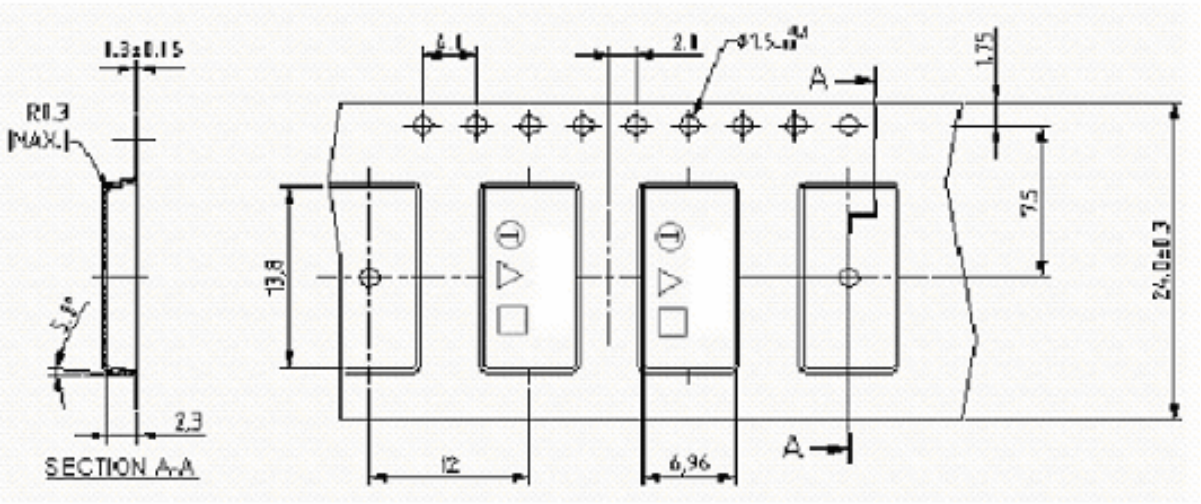
Unit: mm

G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



I. RECOMMENDED REFLOW PROFILE: