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 168 MHz (package 5.0mm x7.0 mm)

TST Parts No.: TB0891A

Customer Parts No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Kazuma Lee _____

Approval by:_____ Francis Chen _____

Date:_____ 11 / 04 / 2010 _____

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 168MHz 1MHz BW (SMD 5.0×7.0 mm)
MODEL NO.: TB0891A 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

B. Characteristics :

1. Ambient Temperature: 25 °

Item	Unit	Min.	Type.	Max.
Center frequency, **Fc**	MHz	-	168	-
Insertion Loss, **IL**	dB	-	12.5	14.0
-1.5dB bandwidth	MHz	-	1.0	-
-35dB bandwidth	MHz	-	3.0	4.0
Passband Ripple Fc+/-100KHz	MHz	-	0.2	1.0
Group Delay Variation Fc+/-100KHz	nsec	-	60	150
Absolute Delay	usec	-	0.8	1.2
Temp. Coefficient	ppm/°C^2	-	-0.036	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

C. Frequency Characteristics :

(1) Wide band Response:(span 50MHz)

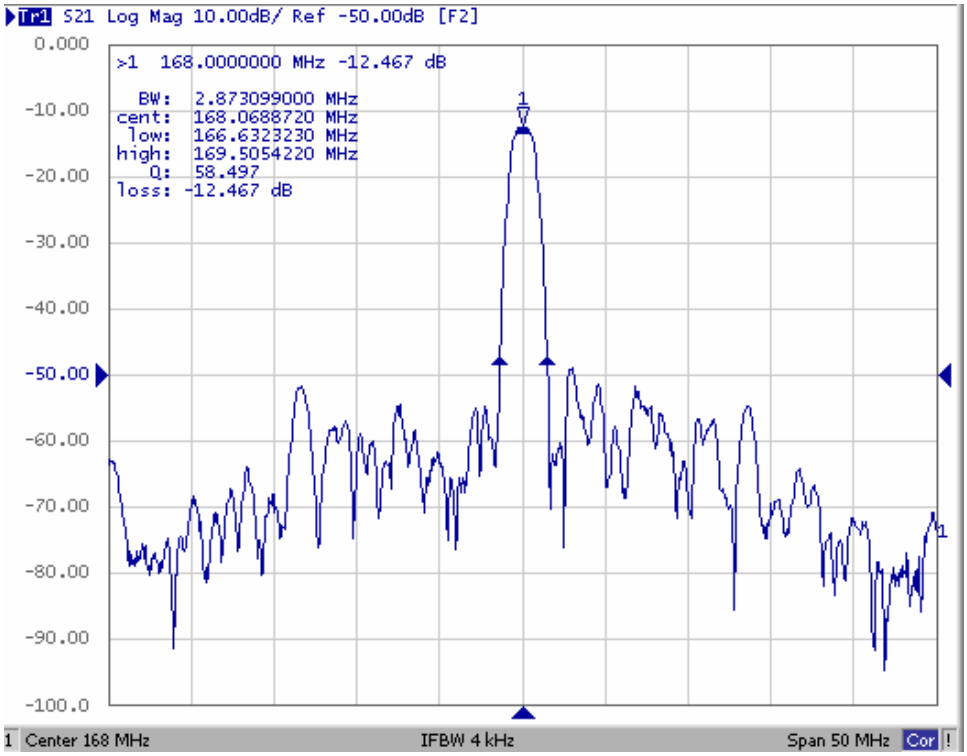


Fig1. Horizontal: 5MHz/Div Vertical: 10dB/Div

(2) Pass band Response and Group Delay Response:

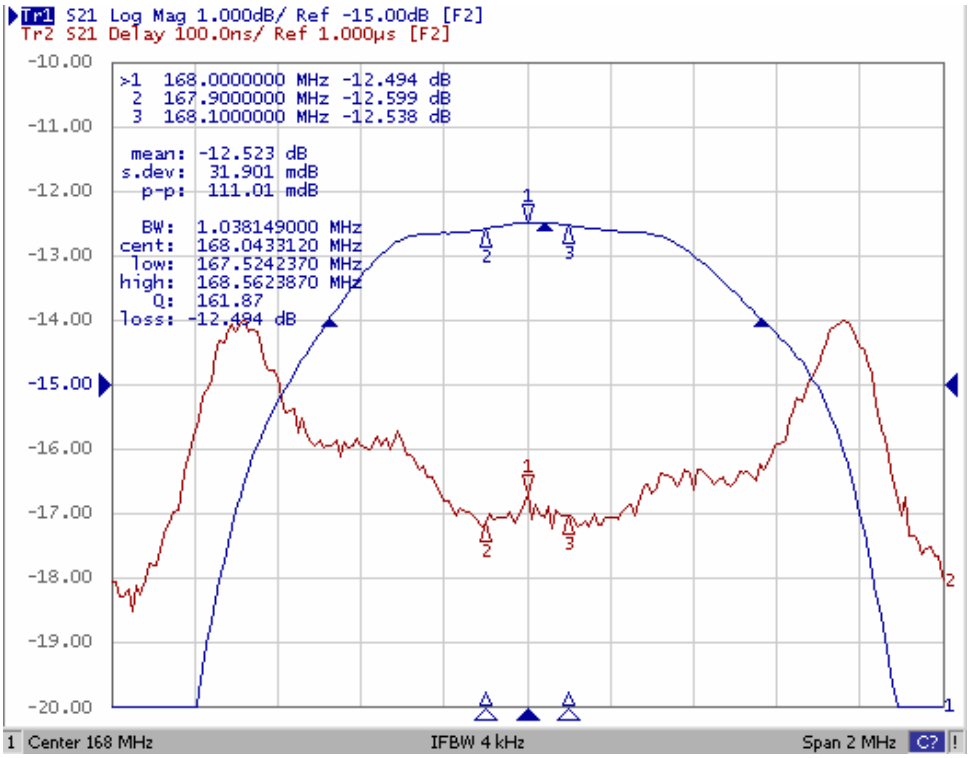
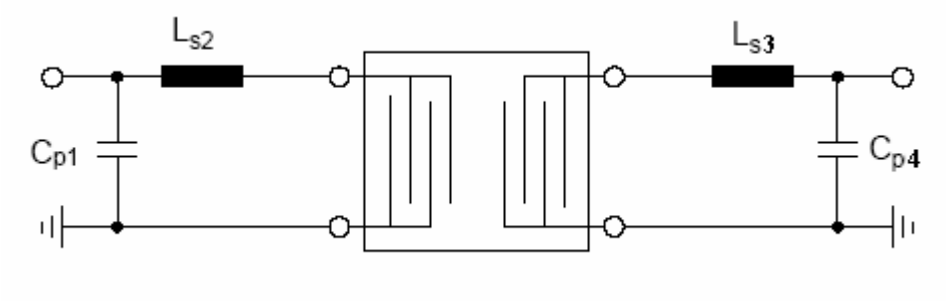


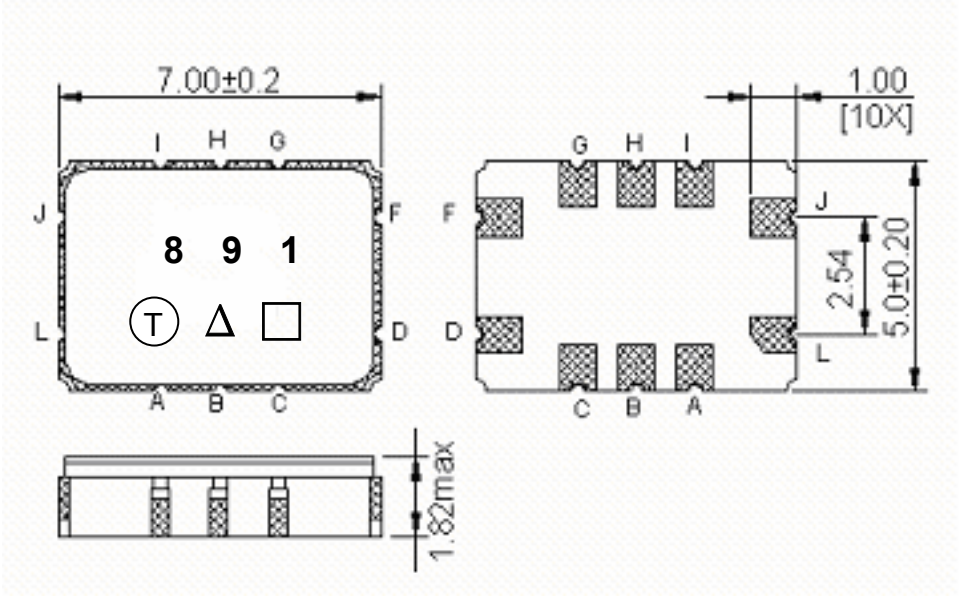
Fig2. Horizontal: 0.2MHz/Div Vertical: 1dB/Div
Vertical: 100ns/Div

D. Matching Circuit:



L_{s2}=180nH + 24nH L_{s3}=150nH + 8.2nH C_{p1}=39pF C_{p4}=33pF

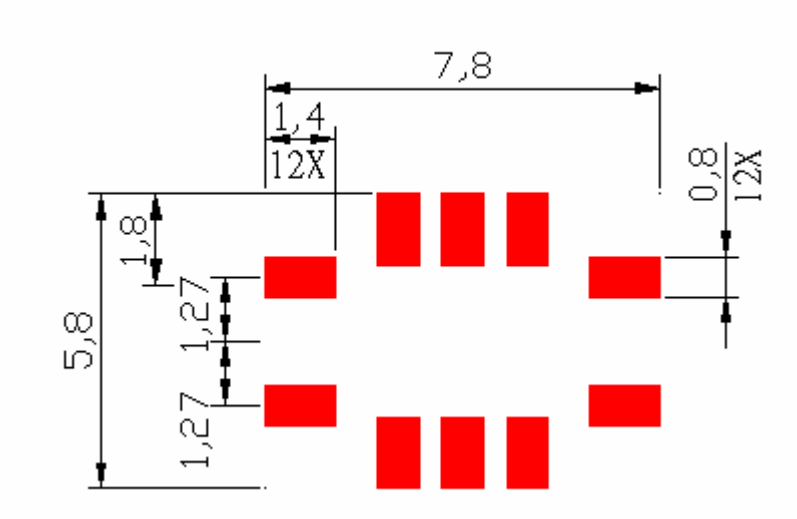
E. Outline Drawing:



Pin J –RF input
Pin L –RF input ground
Pin D –RF output
Pin F –RF ontput ground
Pin A,B,C,G,H,I - Ground
□ : Week Code (Follow the table from planner each year)
Unit : mm
△ : Product / Year Code

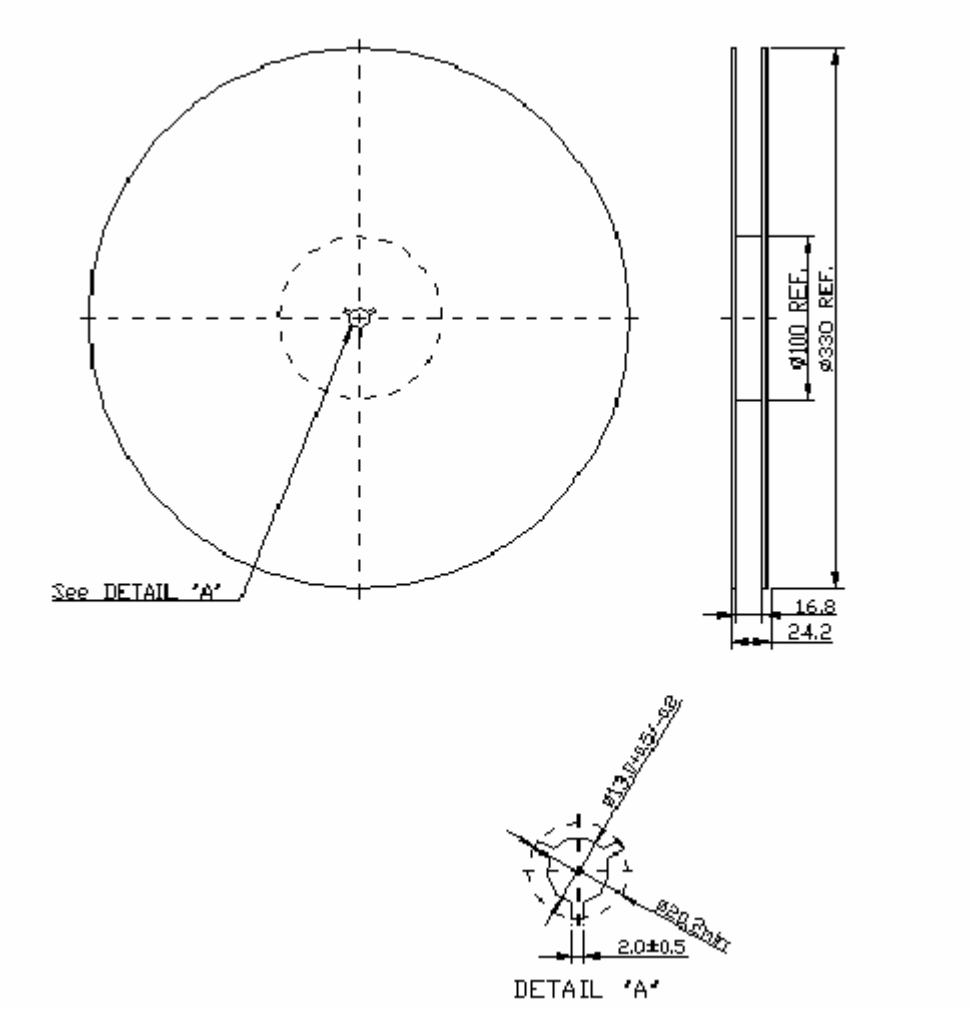
Year	2009 2013	2010 2014	2011 2015	2012 2016
Product Code	B	b	B	b

F. PCB Footprint:

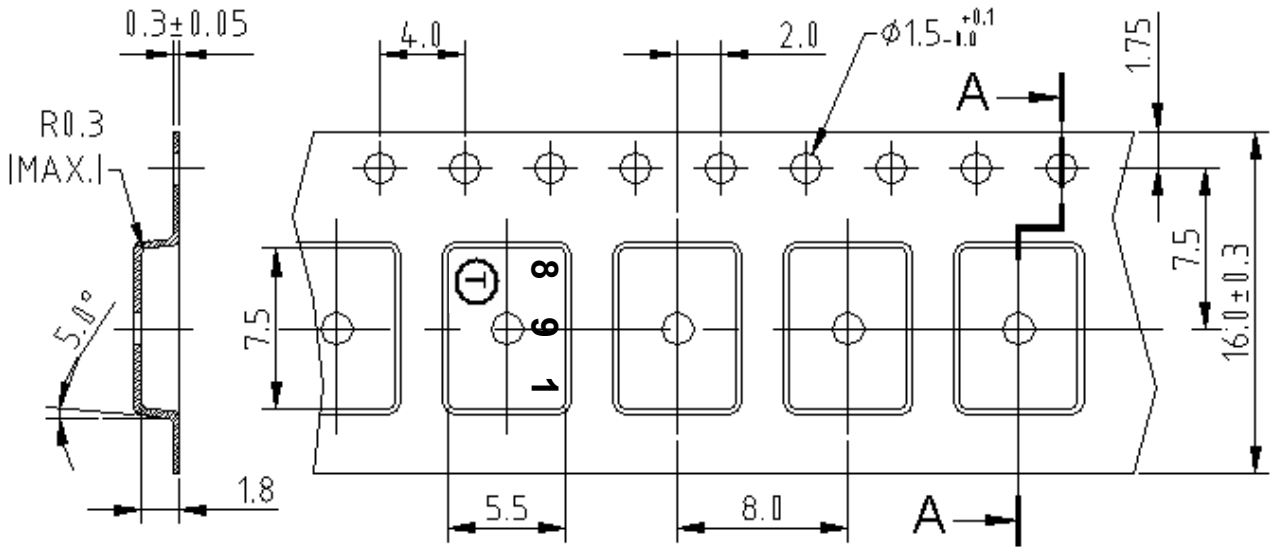


G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :