



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Name: 153.52 MHz 22MHz BW SMD 7.0 x 5.0 mm SAW IF Filter

TST Parts No.: TB0992A

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 153.52MHz 22MHz BW (SMD 5.0×7.0 mm)

MODEL NO.: TB0992A

REV. NO.1

A. MAXIMUM RATING:

1. Operating temperature range: -55°C to 125°C
2. Storage temperature range: -55°C to 125°C
3. Input Power Level : 10 dBm
4. Maximum DC Voltage : 10V

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device

B. Characteristics :

1. Ambient Temperature: 25 °

Item	Unit	Min.	Type.	Max.
Center frequency, Fc	MHz	-	153.52	-
Insertion Loss, IL	dB	-	10	12
1dB Band Width	MHz	20	22	
40dB Band Width	MHz		27.8	29
Amplitude Ripple Fc+/-9.0MHz	dB	-	0.5	1.0
Group Delay Ripple Fc+/-9.0MHz	ns	-	55	200
Absolute Group Delay at Fc	us	-	0.75	1.60
Attenuation (Reference level from minimum Insertion loss)				
Fc - 15 MHz	dB	40	43	-
Fc + 15 MHz	dB	35	43	-
Fc +/- 24 MHz	dB	43	45	-
Temperature Coefficient	ppm/°C	-	-94	-
Source Impedance	Ohm	-	200	-
Load Impedance	Ohm	-	200	-

C. Frequency Characteristics :

(1) Wide band Response:(span 200MHz)

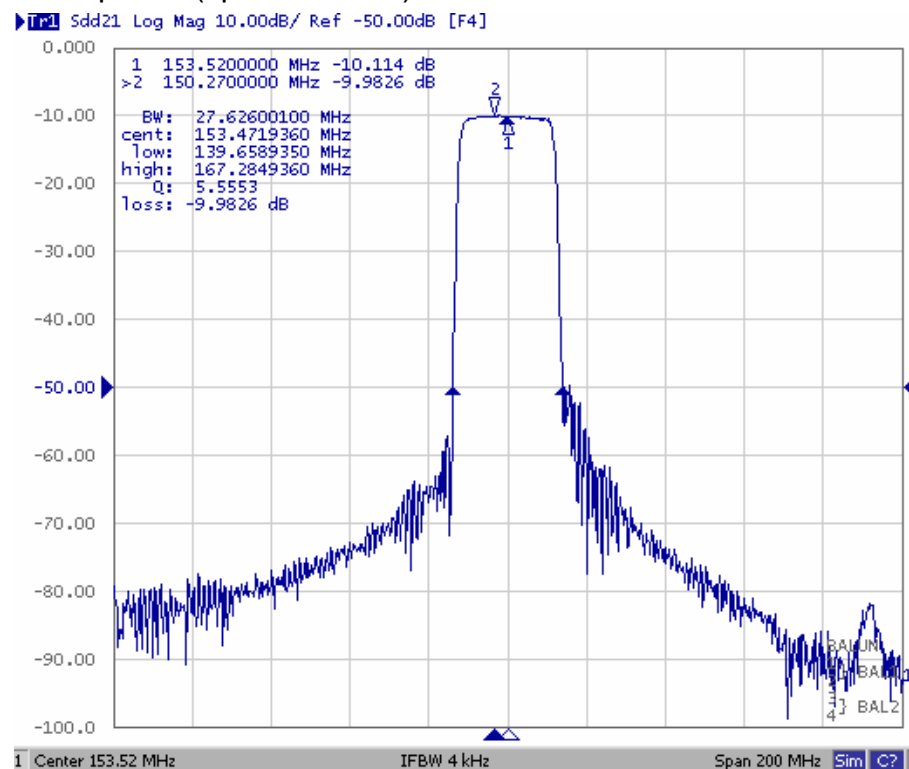


Fig1. Horizontal: 20MHz/Div Vertical: 10dB/Div

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

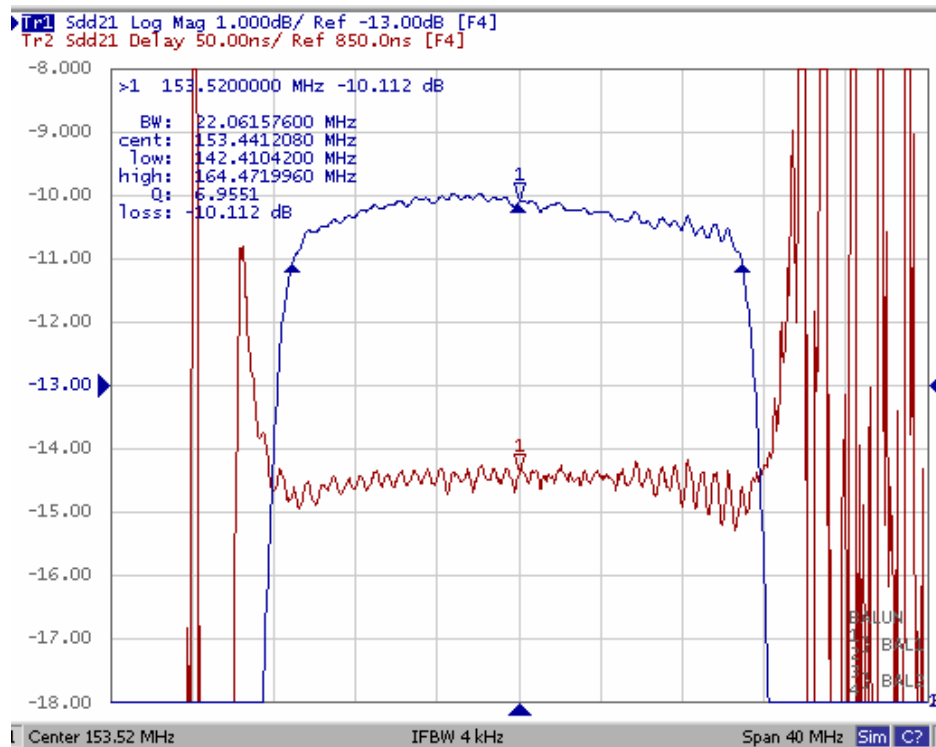
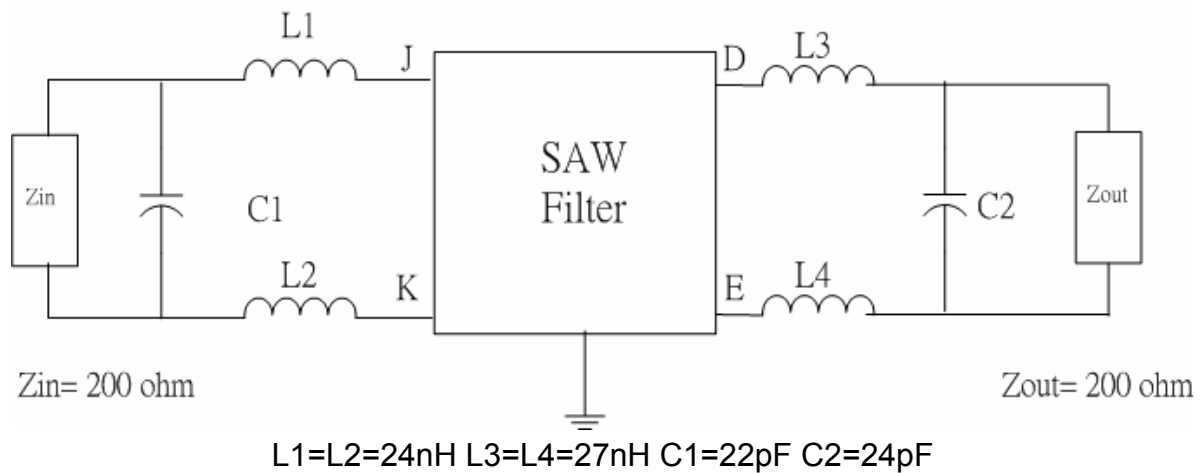
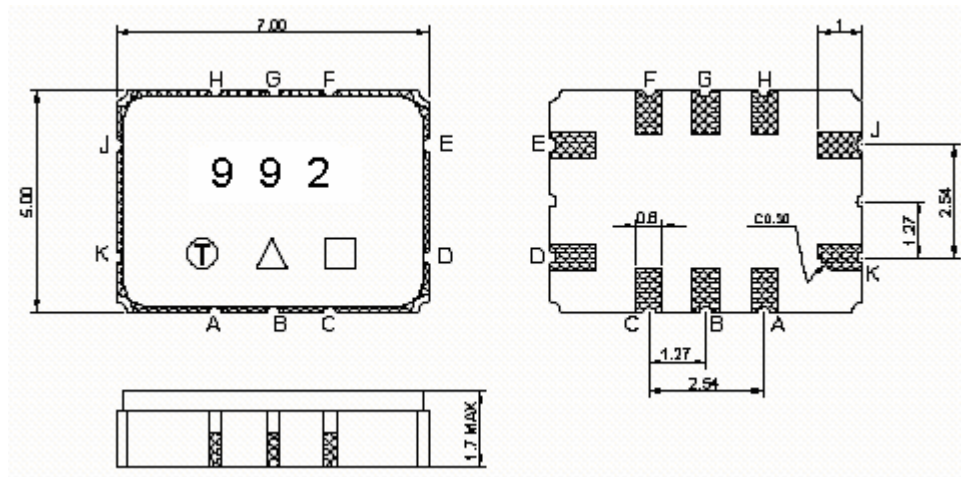


Fig2. Horizontal: 4MHz/Div Vertical: 1dB/Div
Vertical: 50ns/Div

D. Matching Circuit:



E. Outline Drawing:



Pin J –RF input

Pin K –RF balance input or to be ground

Pin D –RF output

Pin E –RF balance output or to be ground

Pin A,B,C,F,G,H - Ground

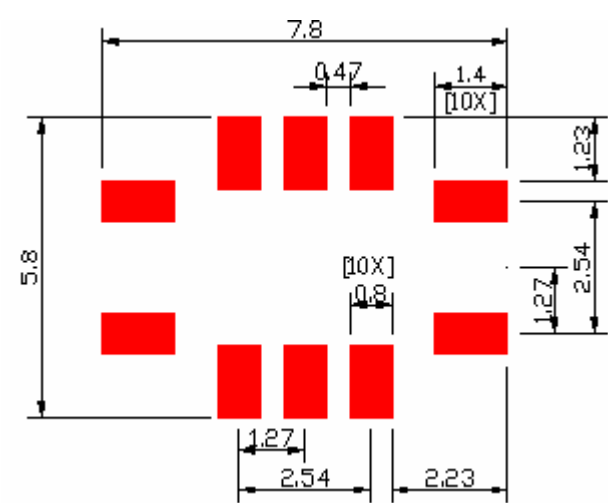
□ : Week Code (Follow the table from planner each year)

Unit : mm

△ : Product / Year Code

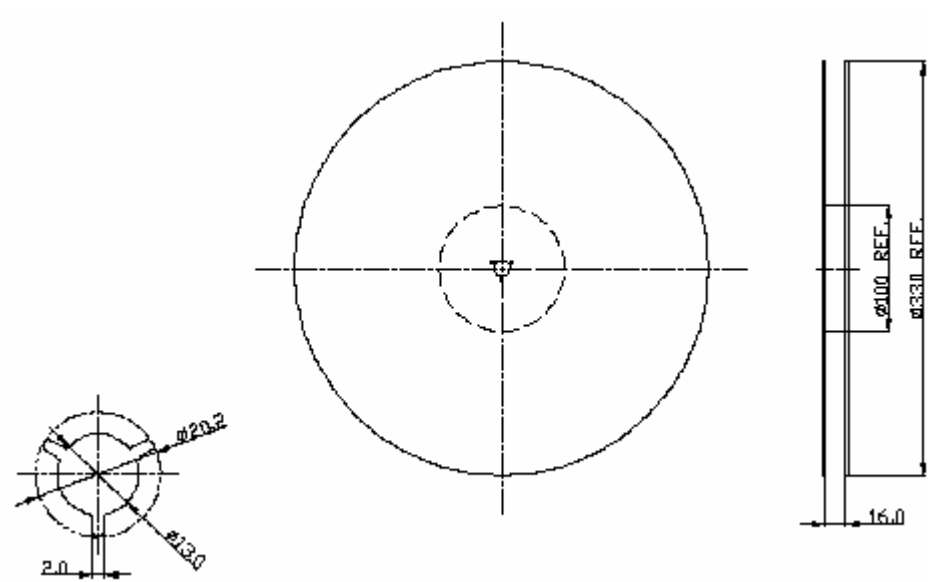
Year	2009 2013	2010 2014	2011 2015	2012 2016
Product Code	B	b	<u>B</u>	<u>b</u>

F. PCB Footprint:

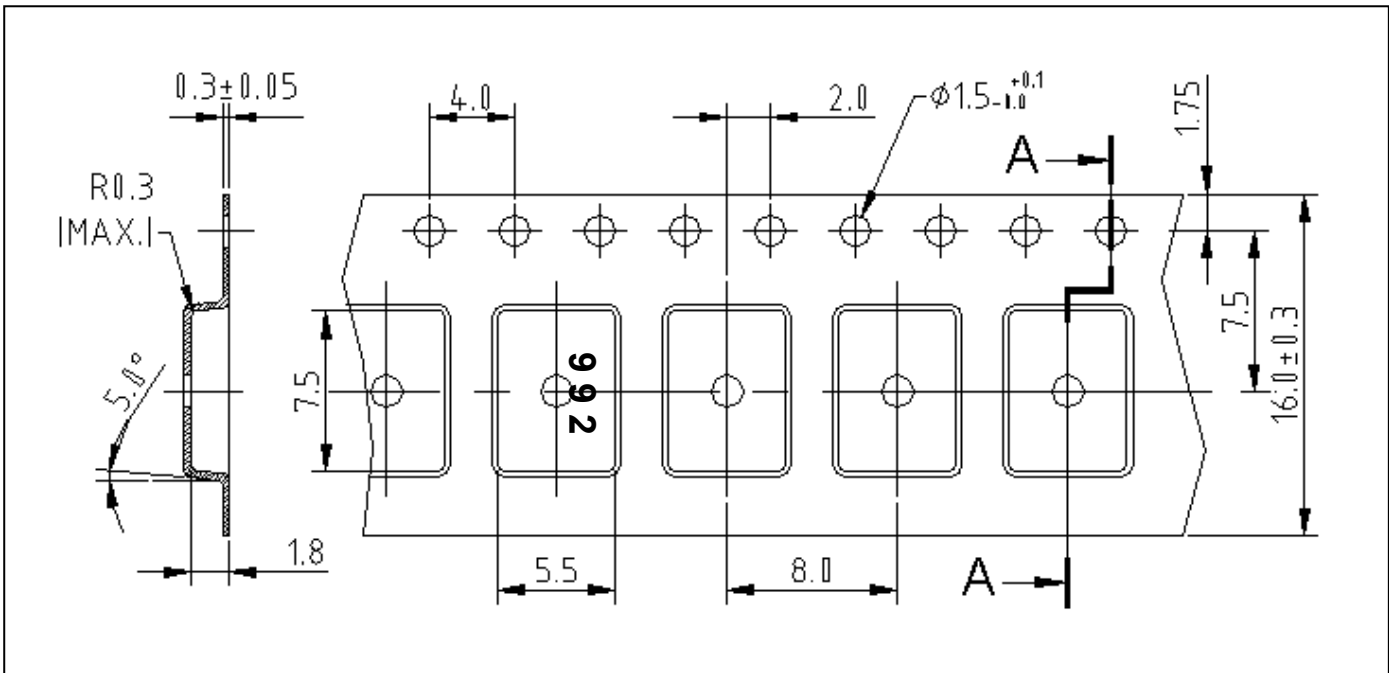


G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

