



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Name: 175 MHz 0.66MHz BW SMD 13.3 x 6.5 mm SAW IF Filter

TST Parts No.: TB0927A

Customer Parts No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Kazuma Lee

Approval by: _____ Francis Chen

Date: _____ 05 / 25 / 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 175MHz 0.92MHz BW (SMD 13.3×6.5 mm)

MODEL NO.: TB0927A

REV. NO.1

A. MAXIMUM RATING:

1. Operating temperature range: -5°C to 70°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 Sensitive Device

B. Characteristics :

Item	Unit	Min.	Type.	Max.
Center frequency, F_c	MHz	-	175	-
Insertion Loss, IL	dB	-	7.0	10.0
-2dB bandwidth	MHz	0.66	0.96	-
-3dB bandwidth	MHz	0.8	1.14	-
-5dB bandwidth	MHz	-	1.33	1.70
-17dB bandwidth	MHz	-	1.76	2.10
-30dB bandwidth	MHz	-	2.00	2.50
Passband Ripple F_c±0.12MHz	dB	-	0.15	1.0
Group Delay variation F_c±0.12MHz	nsec	-	189	260
Absolute Delay	unec	-	1.05	1.50
Ultimate Rejection	dB	50	54	-
Temperature Coefficient	ppm/°C ²	-	-0.036	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

C. Frequency Characteristics :

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

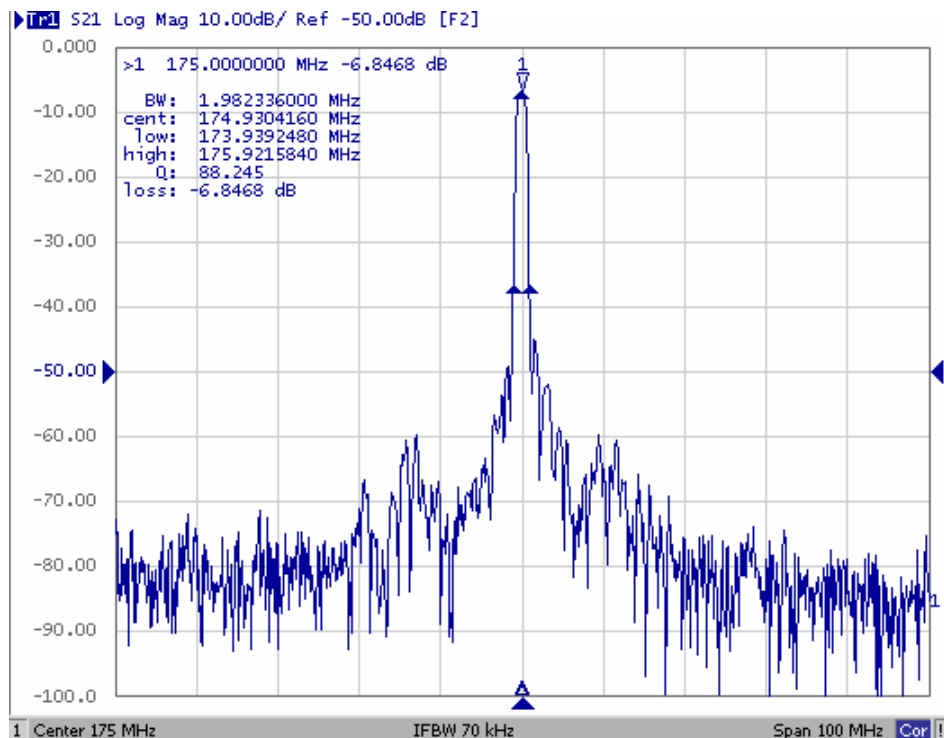


Fig1. Horizontal: 10MHz/Div Vertical: 10dB/Div

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

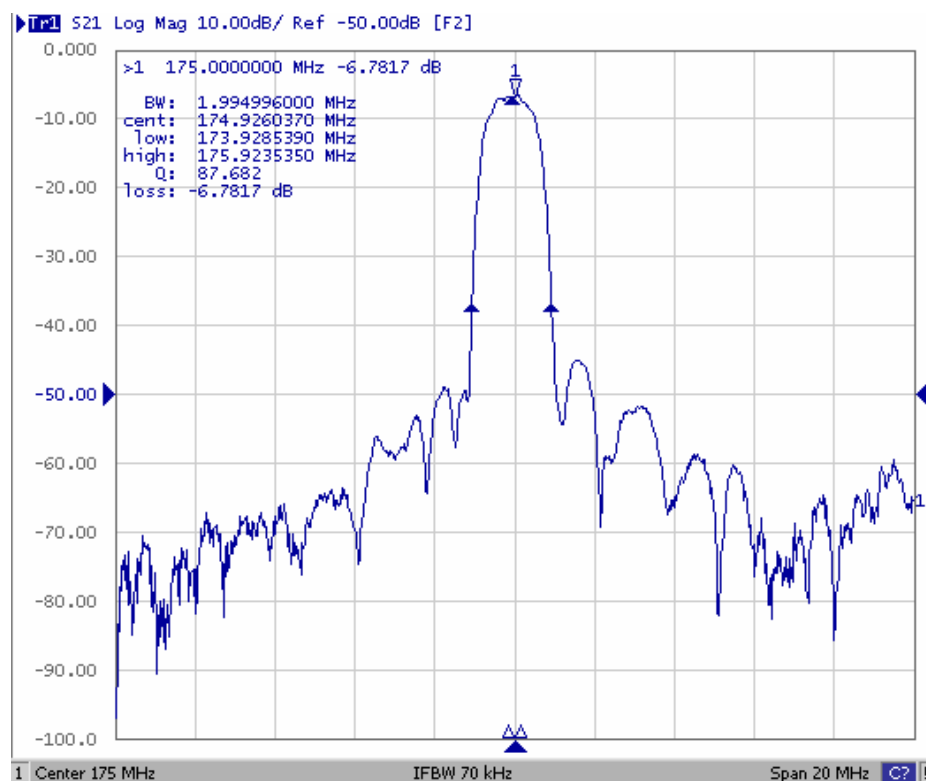


Fig2. Horizontal: 2MHz/Div Vertical: 10dB/Div

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

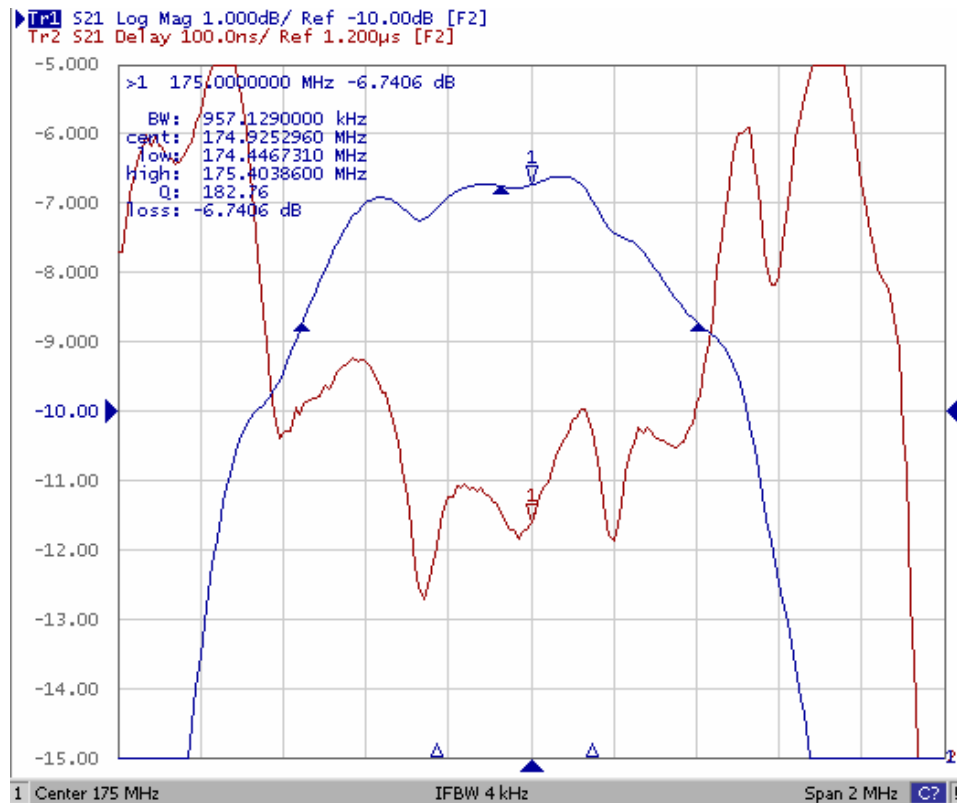
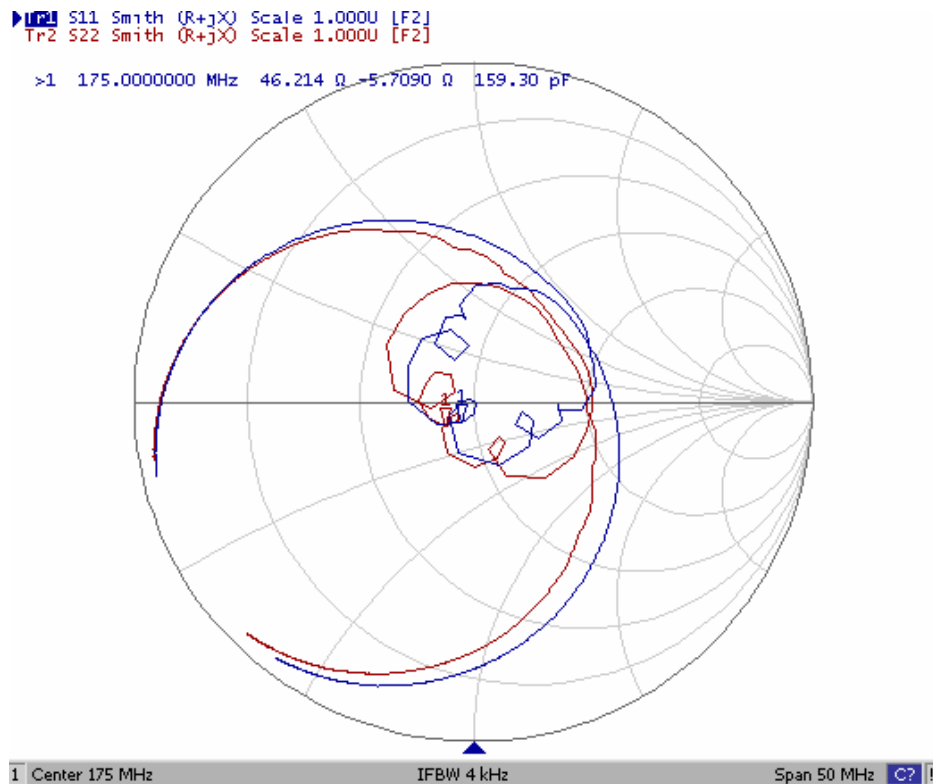
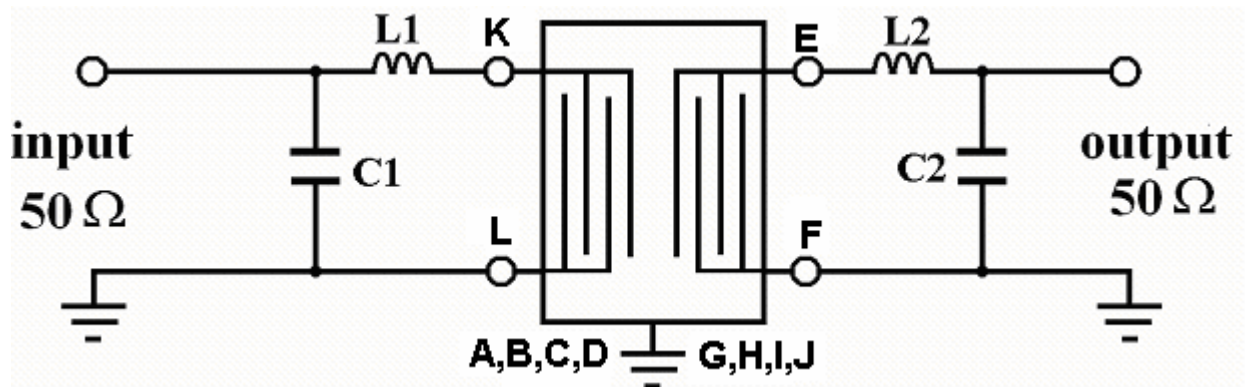


Fig2. Horizontal: 0.2MHz/Div Vertical: 1dB/Div
Vertical: 100ns/Div

(4) Smith Chart:

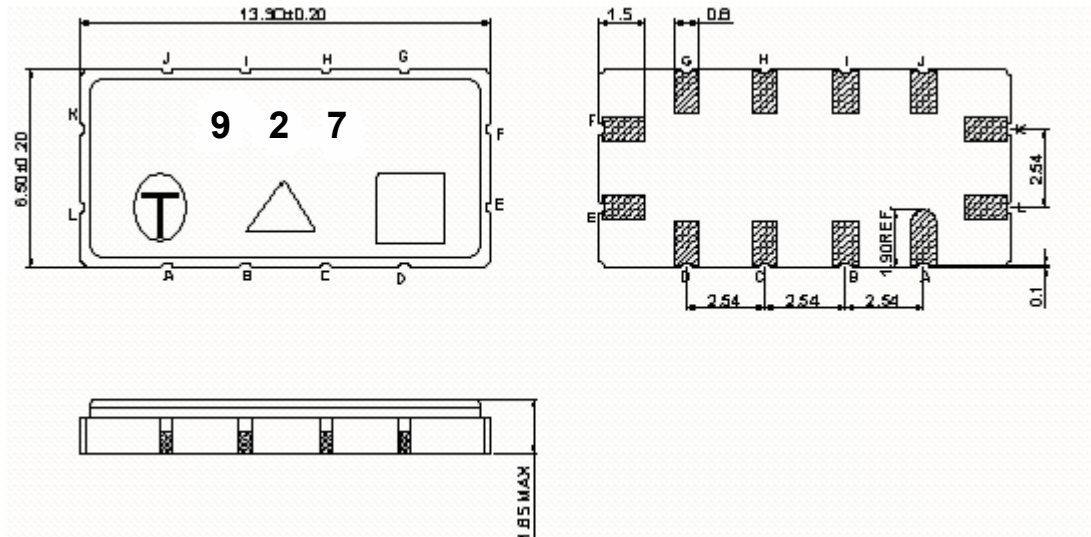


D. Matching Circuit:



$$L1=92\text{nH} \quad C1=36\text{pF} \quad L2=85\text{nH} \quad C2=47\text{pF}$$

E. Outline Drawing:



#K : Input

#L : Input Ground

#E : Output

#F : Output Ground

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

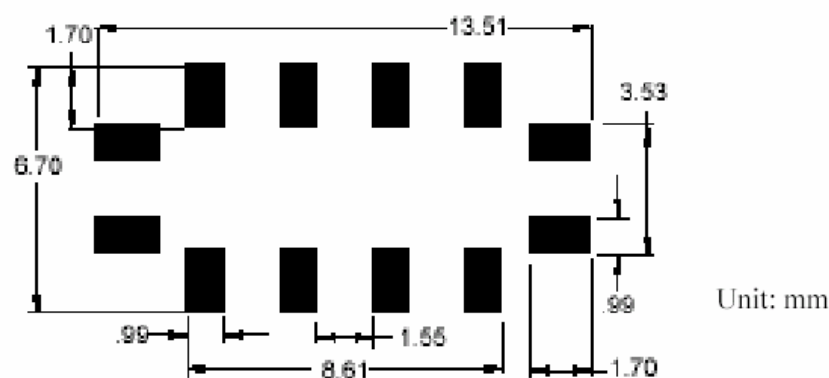
□: Week Code (Follow the table from planner each year)

Unit: mm

△ : Product / Year Code

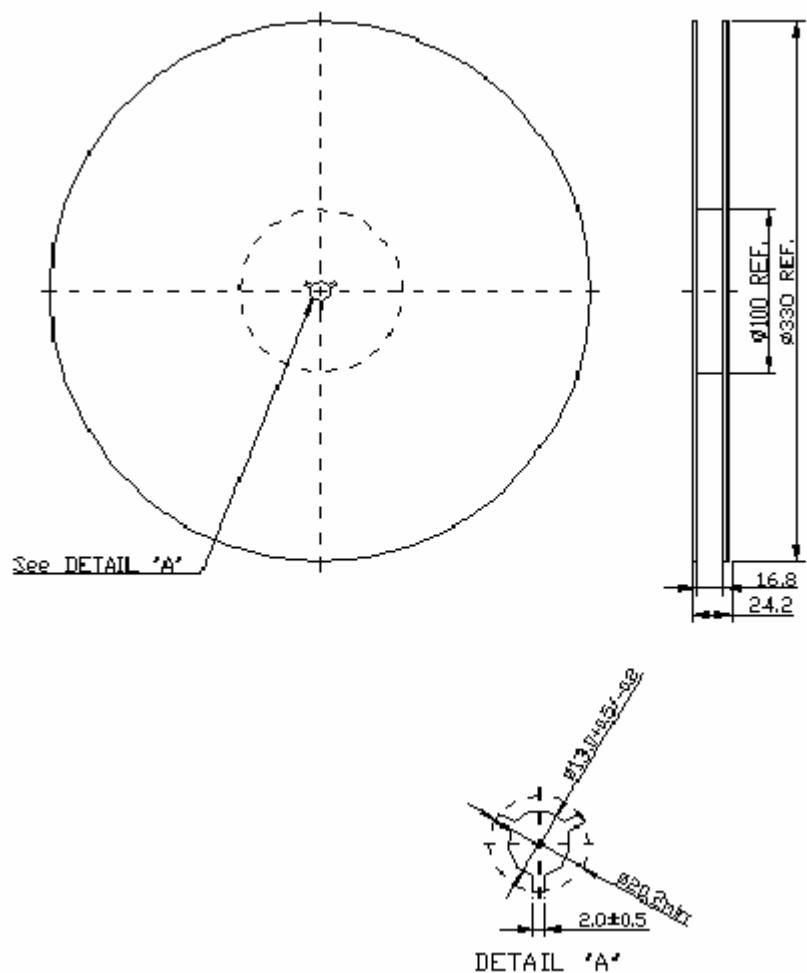
Year	2009 2013	2010 2014	2011 2015	2012 2016
Product Code	B	b	<u>B</u>	<u>b</u>

F. PCB Footprint:

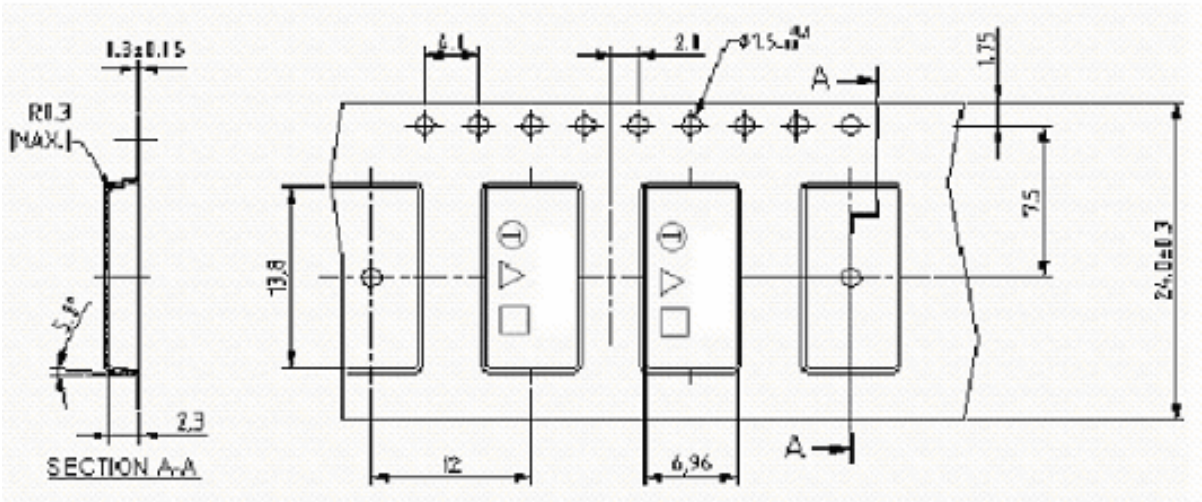


G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

