



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Issued Date:

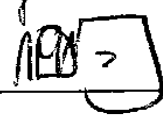
Product Name: SAW IF Filter 70 MHz(package 13.3mm x 6.5 mm)

TST Parts No.: TB0884A

Customer Parts No.: _____

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

Checked by: _____ Kazuma Lee 

Approval by: _____ Francis Chen 

Date: _____ 08 / 02 / 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 70MHz 8MHz BW (SMD 13.3×6.5 mm)

MODEL NO.: TB0884A

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 :

Item	Unit	Min.	Type.	Max.
Center frequency, F_c	MHz	-	70	-
Insertion Loss, IL	dB	-	8.7	10.0
-1dB bandwidth	MHz	7.35	8.0	-
-3dB bandwidth	MHz	8.0	9.0	-
-40dB bandwidth	MHz	-	12.5	13.5
Passband Ripple F_c± 2.5MHz	dB	-	0.6	1.0
Group Delay variation F_c± 2.5MHz	nsec	-	75	120
Absolute Delay	unec	-	0.9	-
Temperature Coefficient	ppm/°C	-	-94	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

C. Frequency Characteristics :

(1) Wide band Response:(span 80MHz)

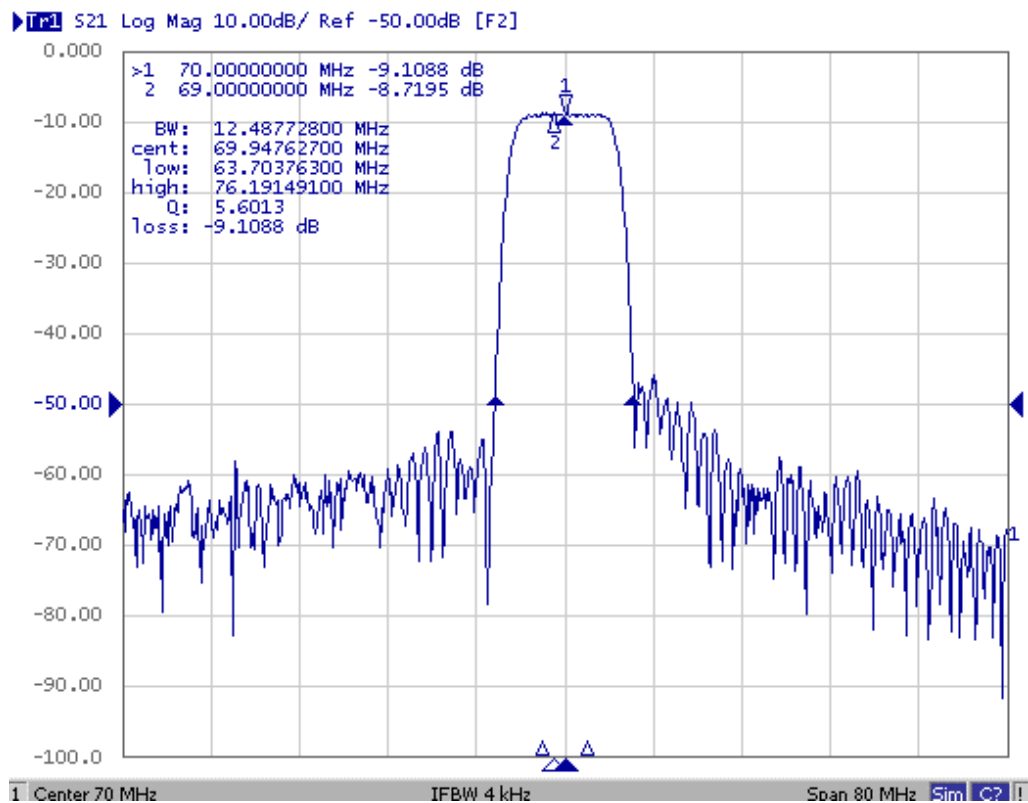


Fig1. Horizontal: 8MHz/Div Vertical: 10dB/Div

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

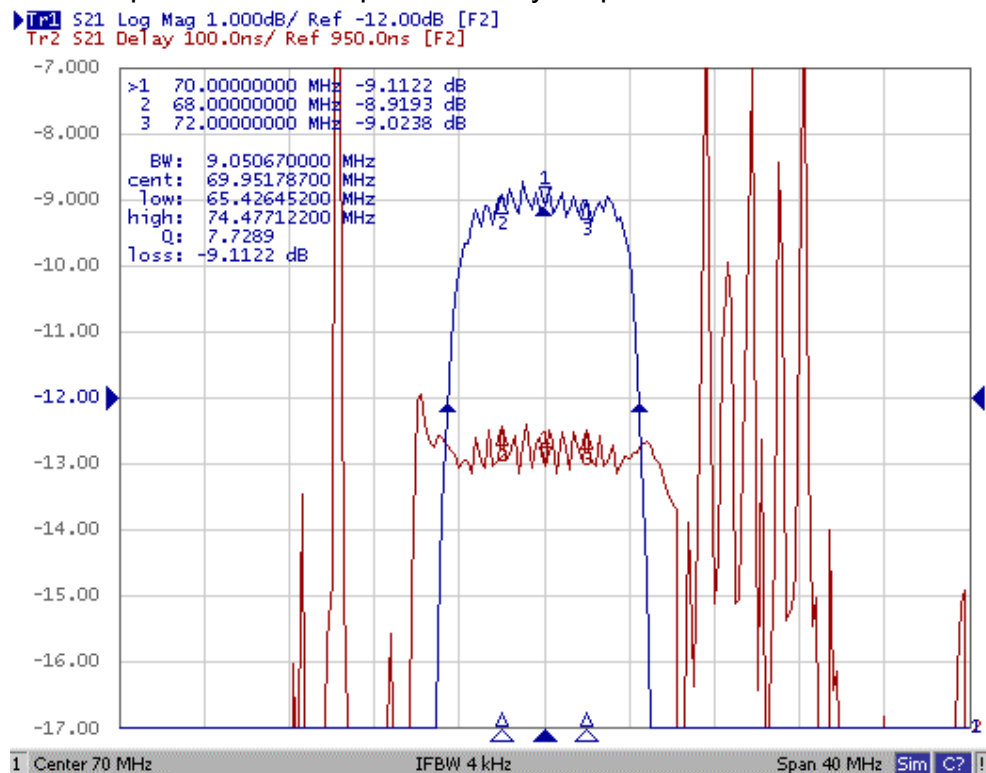


Fig2. Horizontal: 4MHz/Div Vertical: 1dB/Div
Vertical: 100ns/Div

(3) Wide band Response:

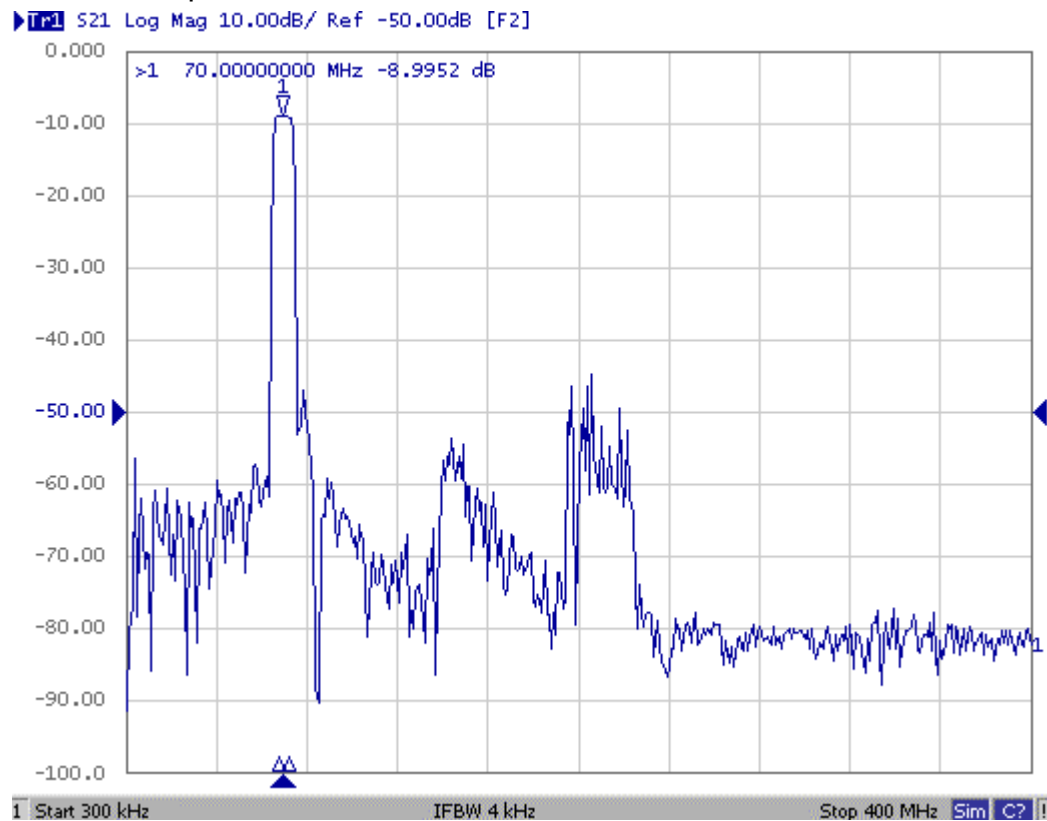
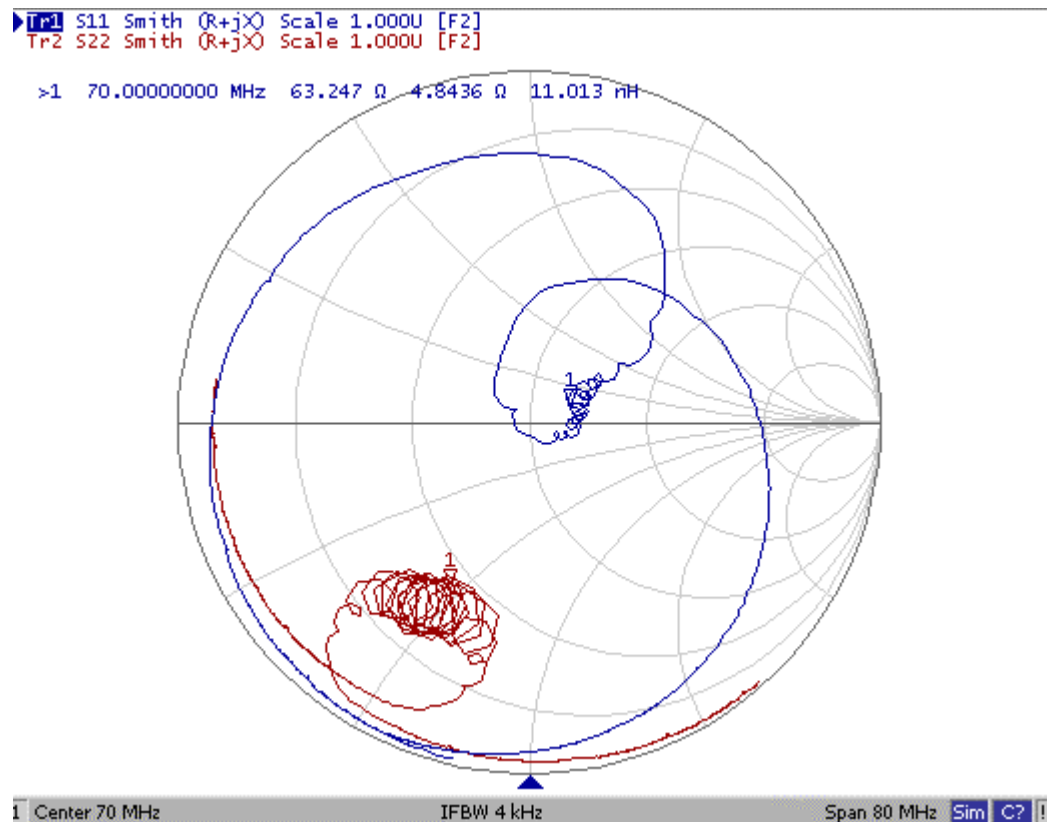
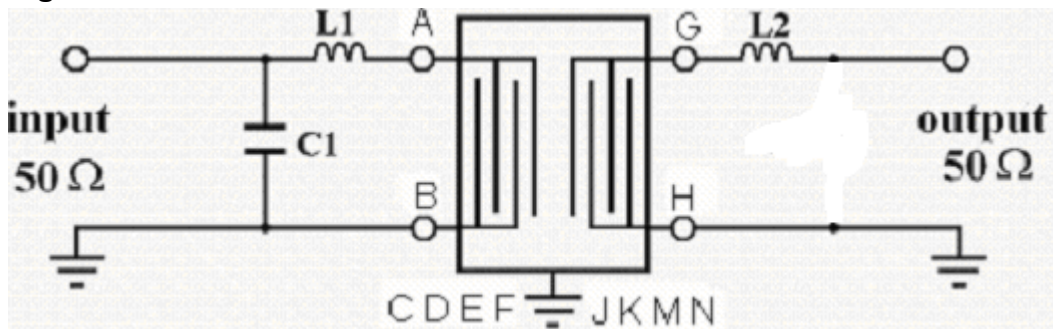


Fig3. Horizontal: 40MHz/Div Vertical: 1dB/Div

(4) Smith Chart:

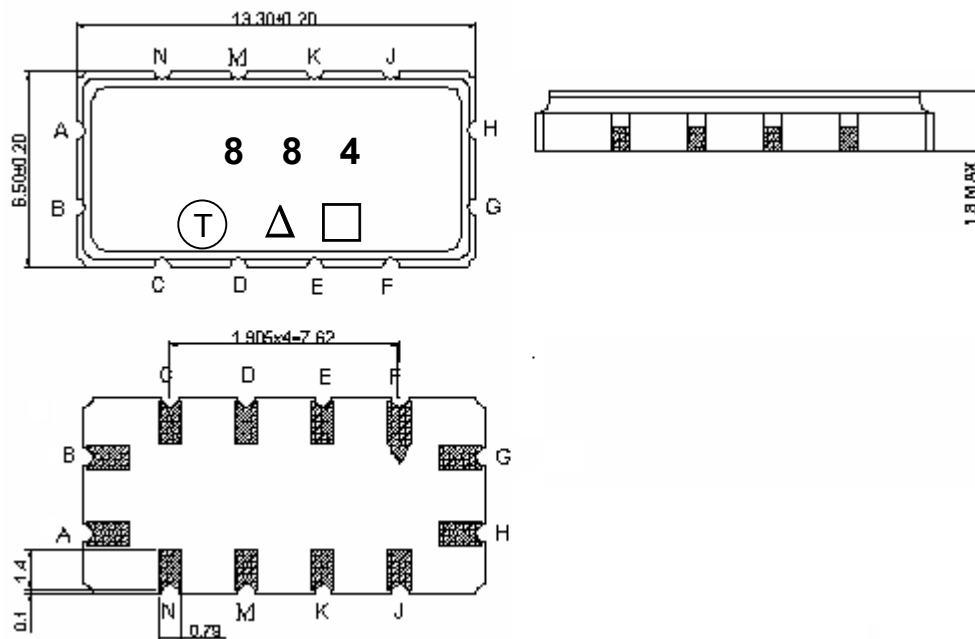


D. Matching Circuit:



$L1 = 150 \text{ nH}$, $C1 = 56 \text{ pF}$, $L2 = 39 \text{ nH}$

E. Outline Drawing:



Pin A –RF input

Pin B –RF input ground

Pin G –RF output

Pin H –RF output ground

Pin C, D, E, F, J, K, M, N - Ground

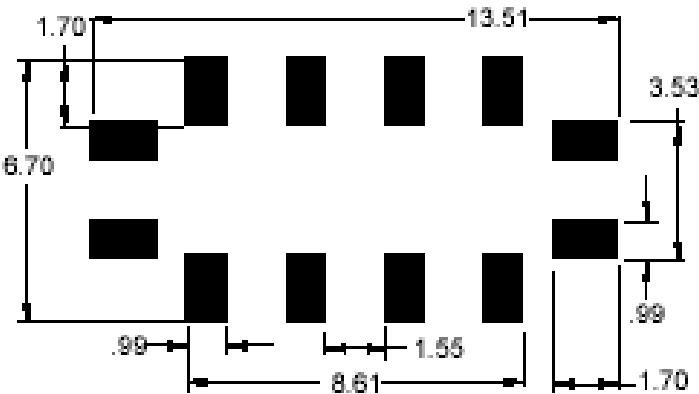
□ : Week Code (Follow the table from planner each year)

Unit : mm

△ : Product / Year Code

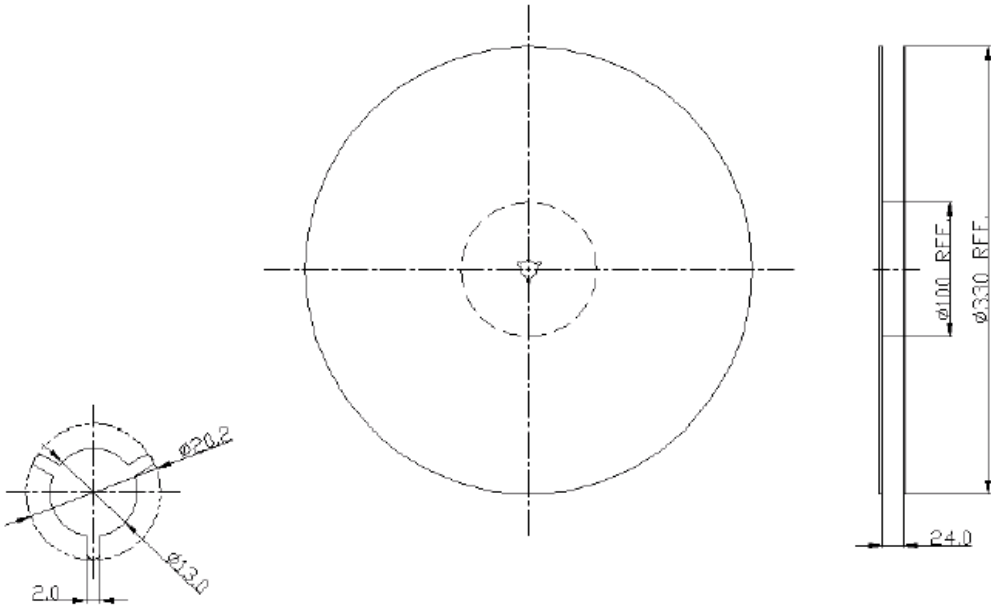
Year	2009 2013	2010 2014	2011 2015	2012 2016
Product Code	B	b	<u>B</u>	<u>b</u>

F. PCB Footprint:



G. PACKING:

1. REEL DIMENSION



Unit: mm

The graph displays the temperature of a substance over time. The y-axis represents Temperature in degrees Celsius, ranging from 20 to 280. The x-axis represents Time in seconds, ranging from 0 to 360. The curve shows a heating phase from 0 to 220 seconds, reaching a maximum temperature of 260°C, followed by a cooling phase from 220 to 360 seconds, ending at 110°C.

Time (Sec)	Temp (Deg C)
0	25
20	28
40	145
60	150
80	158
100	155
120	170
140	178
160	195
180	215
200	250
220	260
240	250
260	175
280	145
300	148
320	135
340	120
360	110