



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Issued Date:

Product Name: SAW IF Filter 255 MHz

TST Parts No.: TB0649A (package 5.0mm x5.0 mm)

Customer Parts No.: _____

Customer signature required

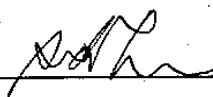
Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Kazuma Lee

Approval by: _____ Andrew Lee 

Date: _____ 10 / 29 / 2009

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 255MHz 90 MHz BW (SMD 5×5 mm)

MODEL NO.: TB0649A

REV. NO.2

A. MAXIMUM RATING:

- 1.Storage Temperature: -40°C to 85°C
- 2.Operating Temperature: -20°C to 70°C
3. Input Power Level : 10 dBm

RoHS Compliant
Lead free
Lead-free soldering

B. Characteristics :

Item	Unit	Min.	Type.	Max.
Center frequency, Fc	MHz	-	255	-
Insertion Loss 210 to 300 MHz	dB	-	15.2	16
Passband Variation 210 to 300 MHz	MHz	-	1.2	3
Relative Attenuation at 166MHz	dB	20	50	-
Relative Attenuation at 306MHz	dB	-	20	-
Temp Coefficient	ppm/K	-	-76	-

C. Frequency Characteristics:

Wideband Response:(span 300MHz)

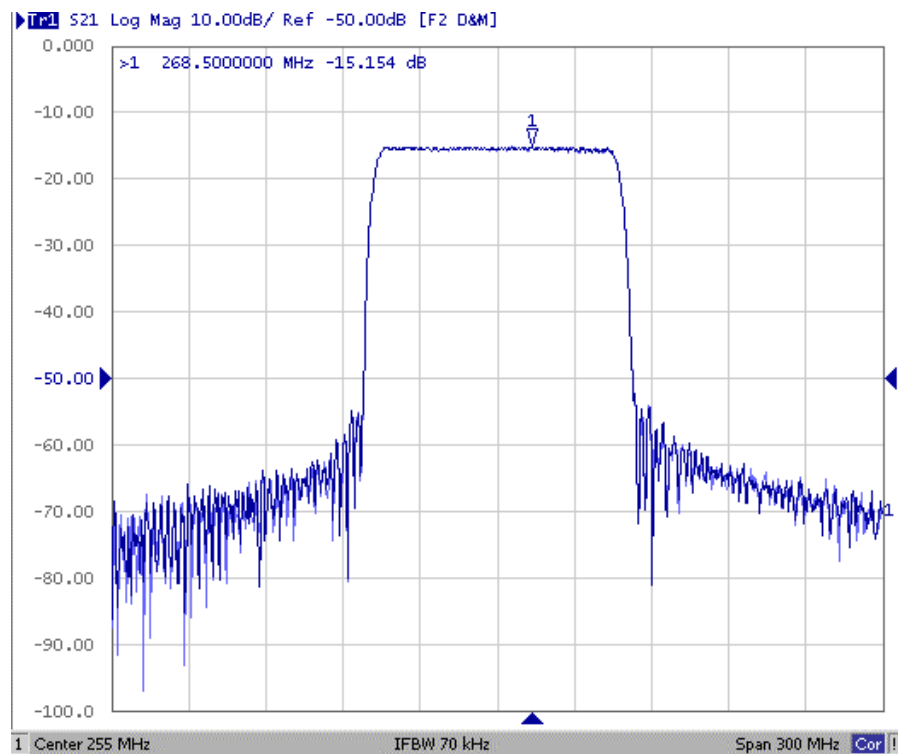


Fig1. Horizontal: 30MHz/Div Vertical: 10dB/Div

Passband Response:(span 100MHz)

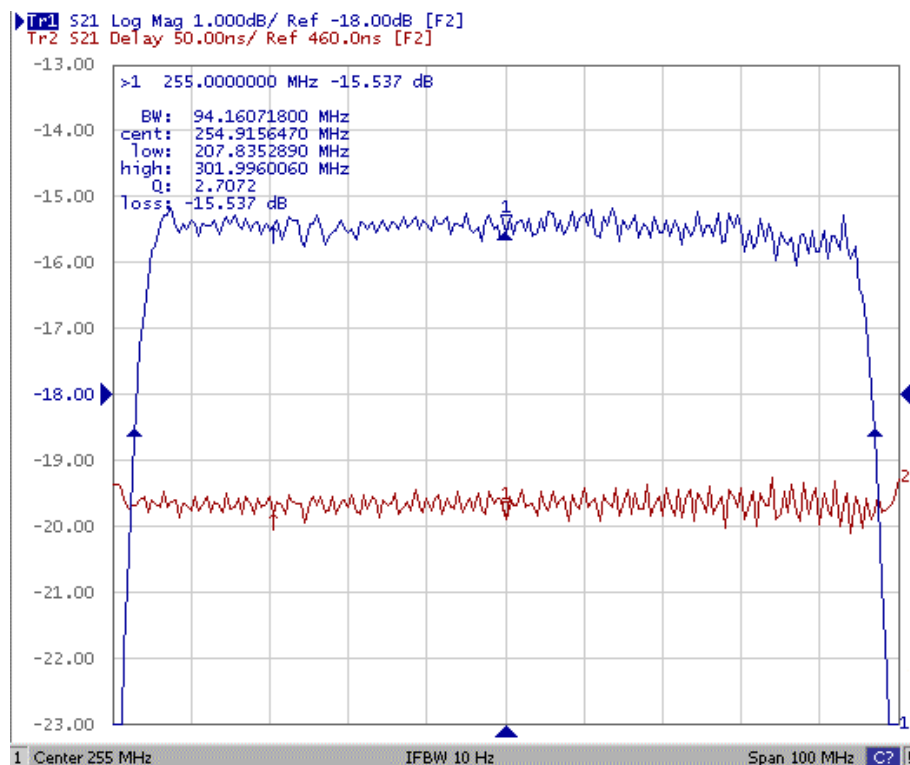
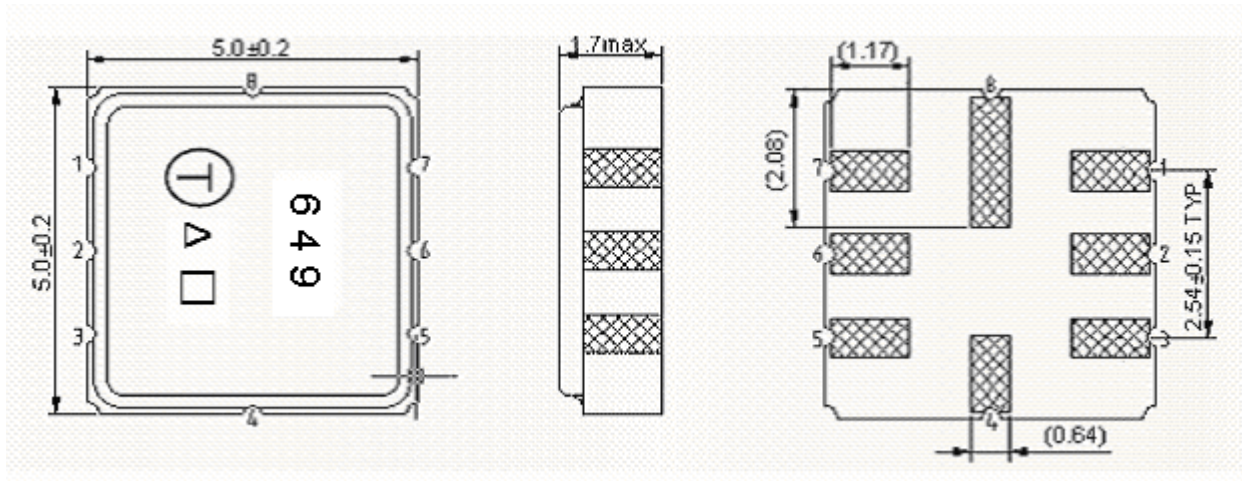


Fig2. Horizontal: 10MHz/Div Vertical 1: 1dB/Div
Vertical 2: 50nS/Div

D. Outline Drawing:



#1 –Input

#2 –Input ground

#5 – Output

#6 – Output ground

#3,4,7,8 – Ground

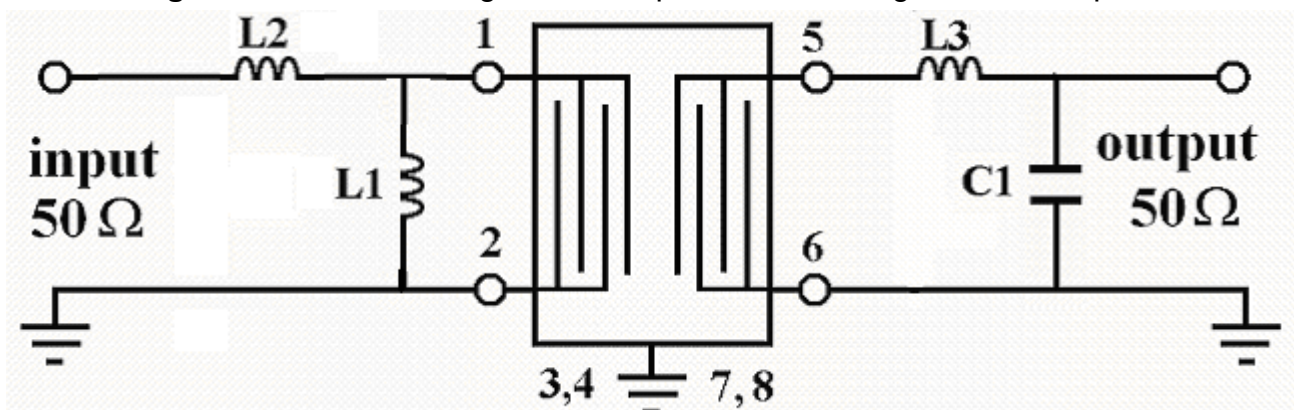
□ : Week Code (Follow the table from planner each year)

Unit : mm

△ : Product / Year Code

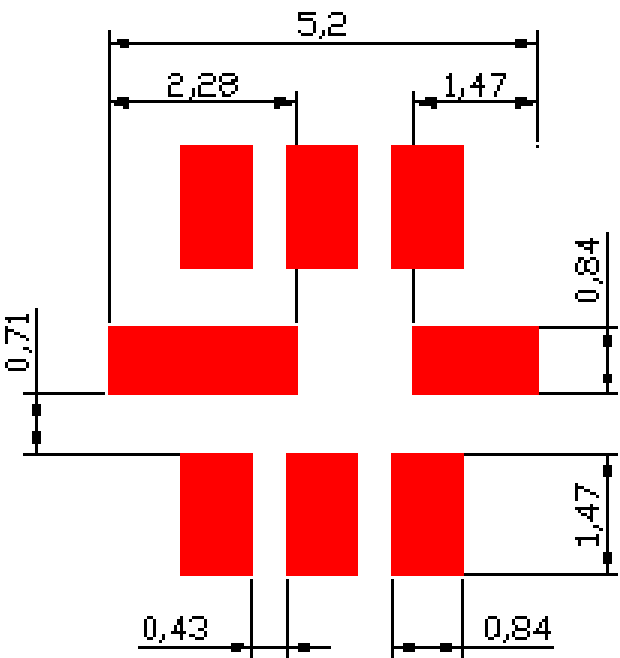
Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	<u>B</u>	<u>b</u>

E. Matching Circuit: 50 Ohm single ended Input - 50 Ohm single ended Output



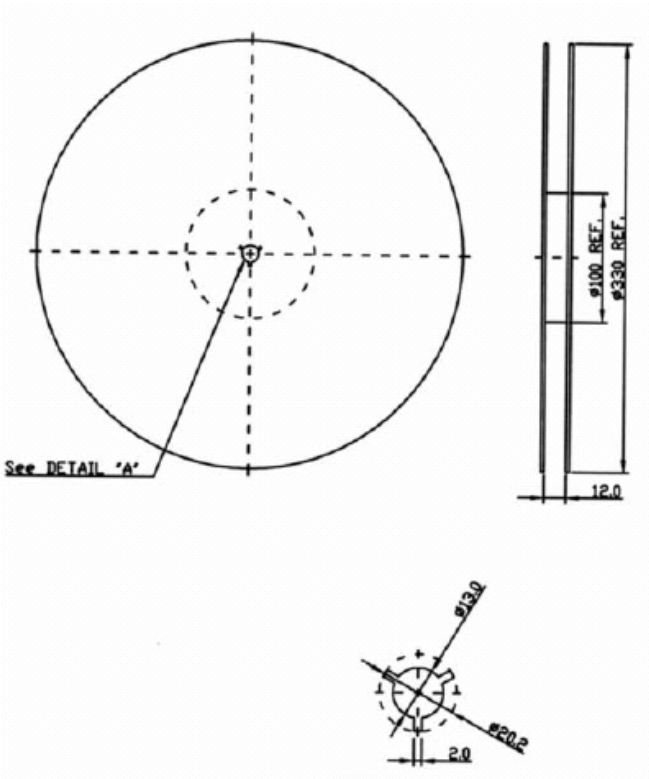
$$L1=180\text{nH}; L2=56\text{nH}; L3=22\text{nH}; C1=15\text{pF}$$

F. PCB Footprint:



G. PACKING:

1. REEL DIMENSION:



SECTION A-A

Direction of feed

The graph illustrates the temperature profile over a 360-second period. The temperature starts at 25°C, rises sharply to 145°C by 40 seconds, then more gradually to a peak of 260°C at 220 seconds. After the peak, the temperature drops sharply to 145°C by 280 seconds and then continues to decrease to 110°C by 360 seconds.

Time (Sec)	Temp (Deg C)
0	25
20	30
40	145
60	150
80	155
100	155
120	170
140	175
160	195
180	220
200	250
220	260
240	250
260	180
280	145
300	145
320	130
340	120
360	110