



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date:

Product Name: SAW IF Filter 447MHz

TST Parts No.: TB0650A

Customer Parts No.: _____

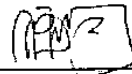
Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Kazuma Lee 

Approval by: _____ Francis Chen 

Date: _____ 2008/12/08



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SAW Filter 447MHz 90 MHz BW (SMD 5×5 mm)

MODEL NO.: TB0650A

REV. NO.1

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	-	447	-
Insertion Loss 402 to 492 MHz	dB	-	16.1	17.0
Passband Variation 402 to 492 MHz	MHz	-	1.4	3
Relative Attenuation at 358MHz	dB	20	45	-
Relative Attenuation at 498MHz	dB	-	25	-
Temp Coefficient	ppm/K	-	-76	-

C. Frequency Characteristics:

Wideband Response:(span 300MHz)

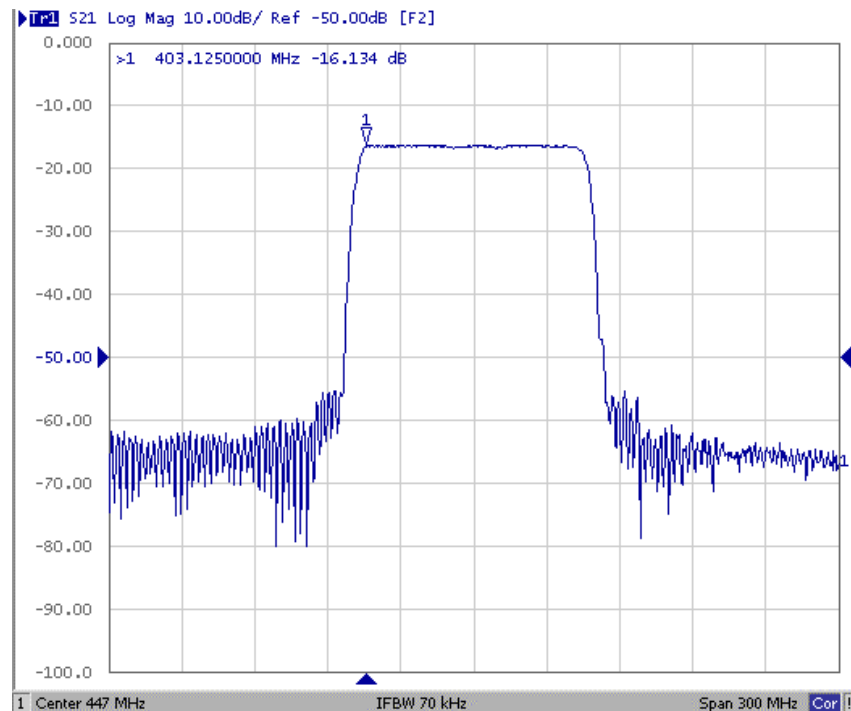


Fig1. Horizontal: 30MHz/Div Vertical: 10dB/Div

Passband Response:(span 100MHz)

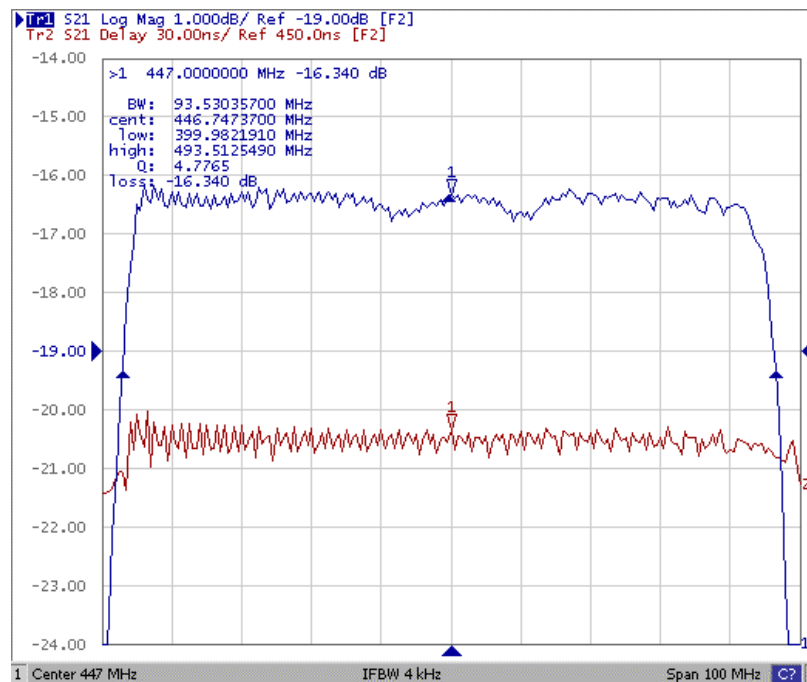
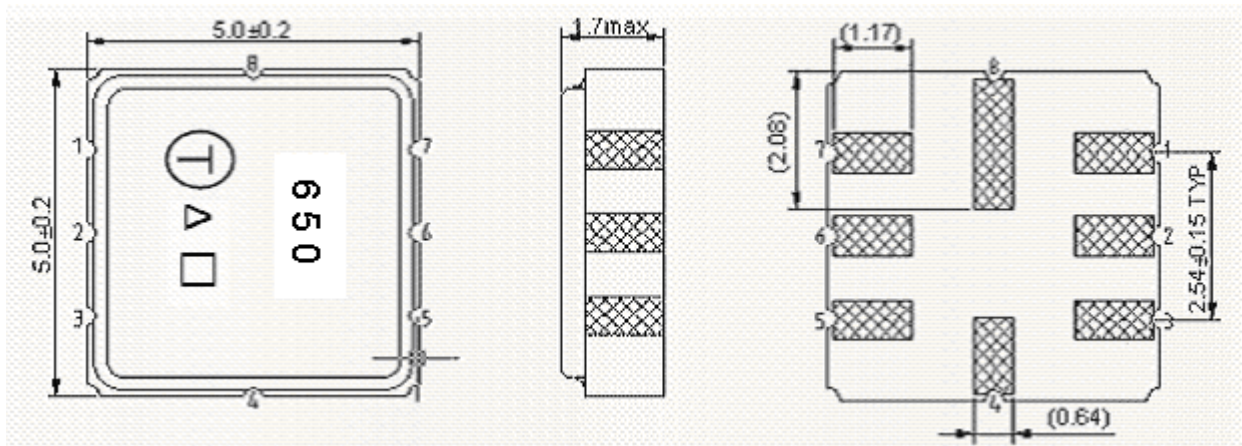


Fig2. Horizontal: 10MHz/Div Vertical 1: 1dB/Div
Vertical 2: 30nS/Div

D. Outline Drawing:



#1 –Input

#2 –Input ground

#5 – Output

#6 – Output ground

#3,4,7,8 – Ground

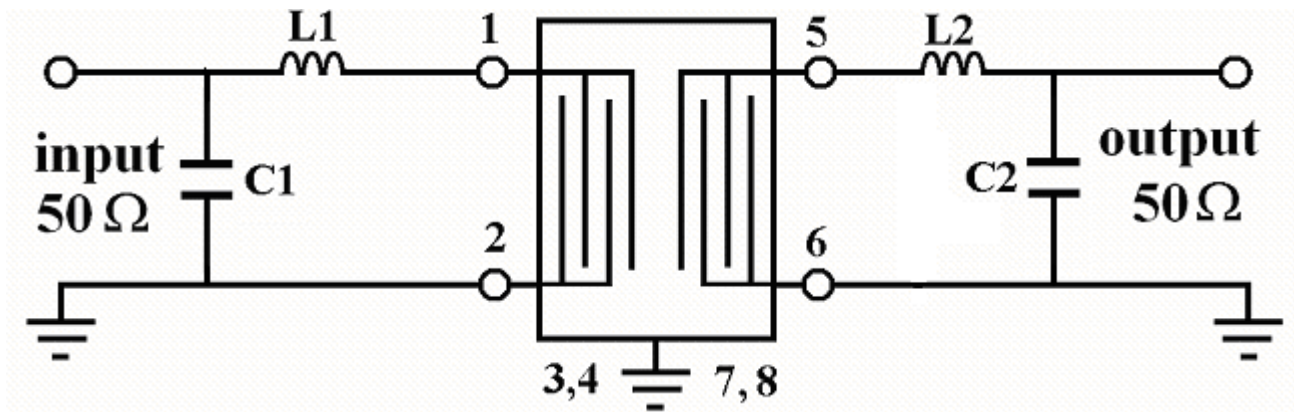
□ : Week Code (Follow the table from planner each year)

Unit : mm

△ : Product / Year Code

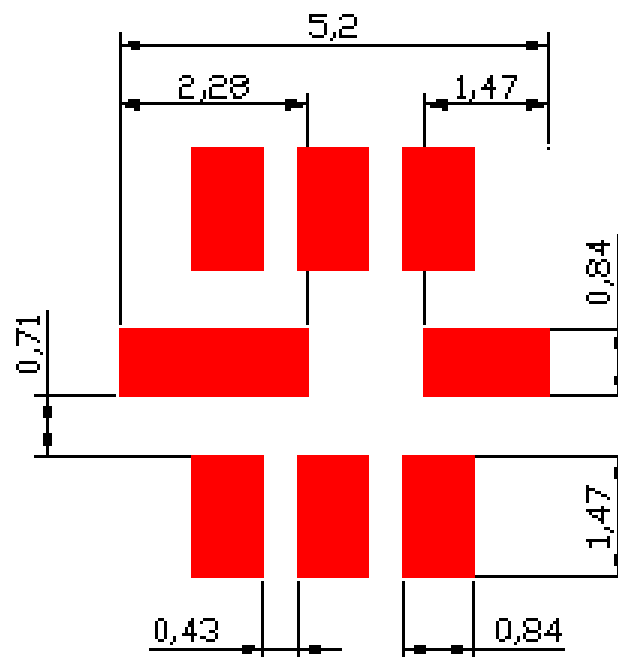
Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	<u>B</u>	<u>b</u>

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



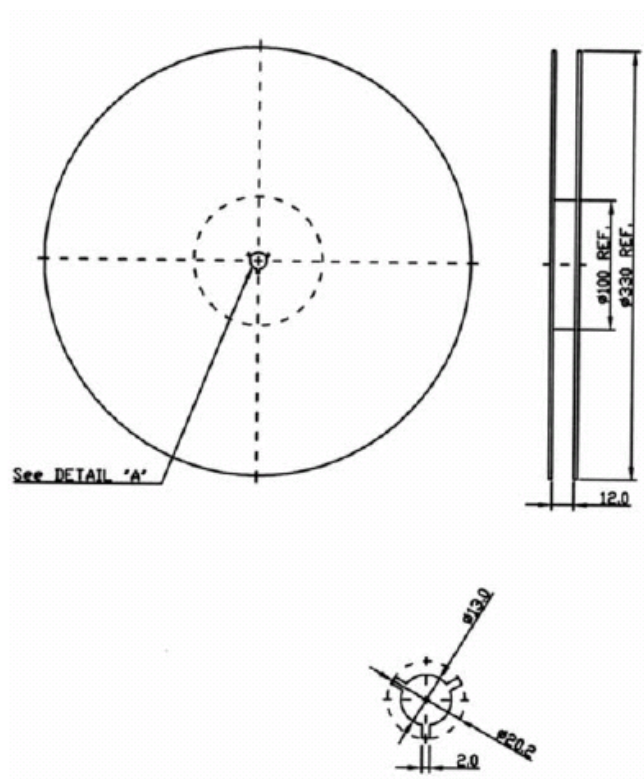
$$L1=18\text{nH}; L2=18\text{nH}; C1=6\text{pF}; C2=4.7\text{pF}$$

F. PCB Footprint:



G. PACKING:

1. REEL DIMENSION:



The graph displays 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 decreases to 145°C by 280 seconds and continues to drop to 110°C by 360 seconds.

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

