



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

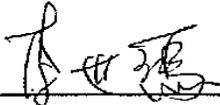
Issued Date:

Product Name: SAW Filter 343.5MHz SMD 7.0x5.0mm

TST Parts No.:TB0621A

Customer Parts No.: _____

Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Kazuma Lee 

Approval by: _____ Francis Chen  06/26/2008

Date: _____ 2008/06/26



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SAW Filter 343.5 MHz SMD 5.0mmX7.0mm

MODEL NO.: TB0621A

Rev No.1

A. MAXIMUM RATING:

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

RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

1. Ambient Temperature: 25 °

Item		Min.	Typical	Max.
Center frequency	Fc MHz	-	343.5	-
Insertion loss at Fc	dB	-	11.2	14.0
Bandwidth at -3.0dB	MHz	-	4.7	-
Amplitude Ripple (Fc ± 1.6 MHz)	dB	-	0.5	1.0
Group Delay Ripple (Fc ± 1.6 MHz)	nS	-	40	100
Triple transit suppression	nS	30	45	-
Attenuation (Reference level from minimum Insertion loss)				
243.5MHz ~ 334.5MHz	dB	40	54	-
334.5MHz ~338.5MHz	dB	35	50	-
348.5MHz ~352.5MHz	dB	35	45	-
352.5MHz ~443.5MHz	dB	40	50	-
Temp Coefficient	ppm/°C2	-	-0.036	-

C. FREQUENCY CHARACTERISTICS :

(1) S21 Response:(span 150MHz)

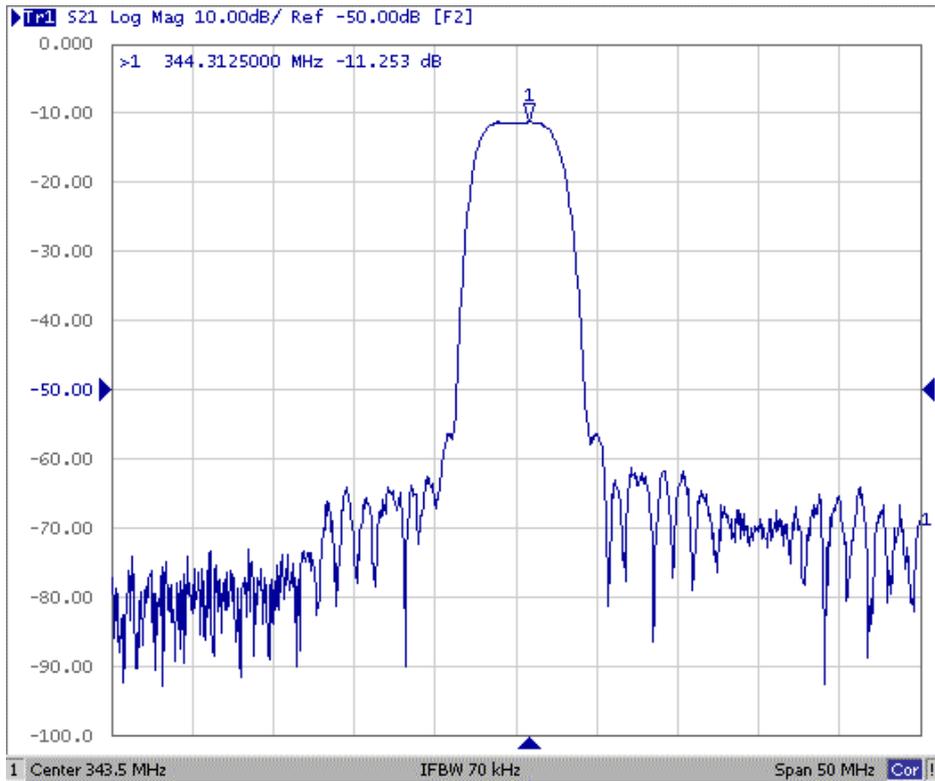


Fig1. Horizontal: 5MHz/Div Vertical: 10dB/Div

(2) S21 Response:(span 10MHz)

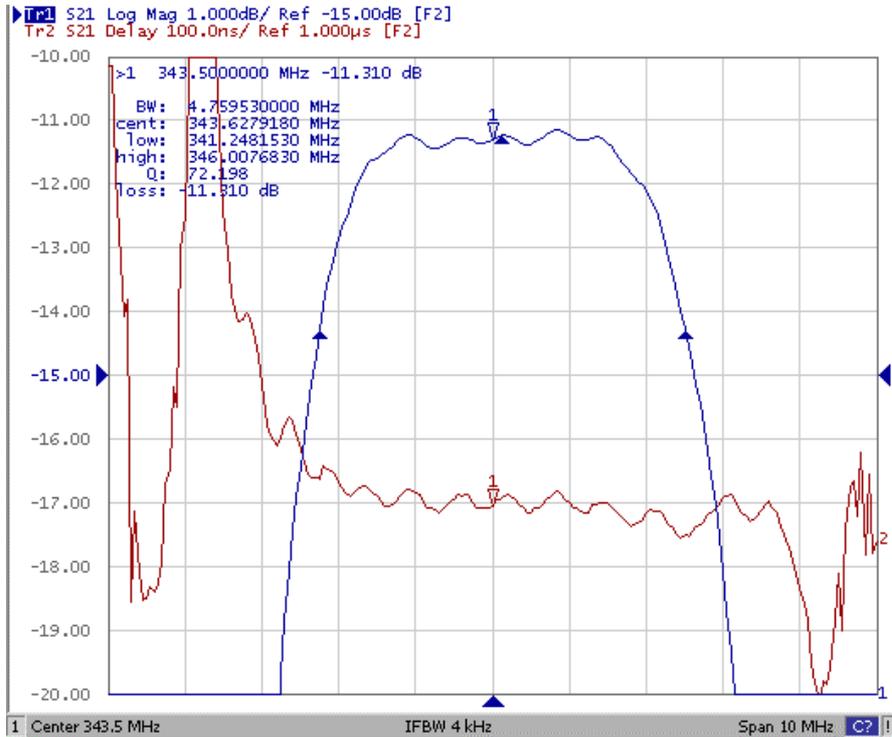
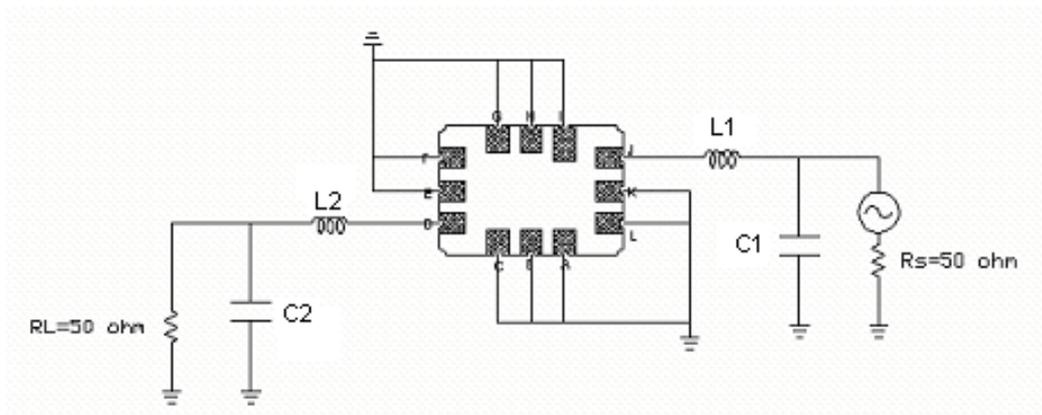


Fig2. Horizontal: 1MHz/Div Vertical: 1dB/Div
Vertical: 100ns/Div

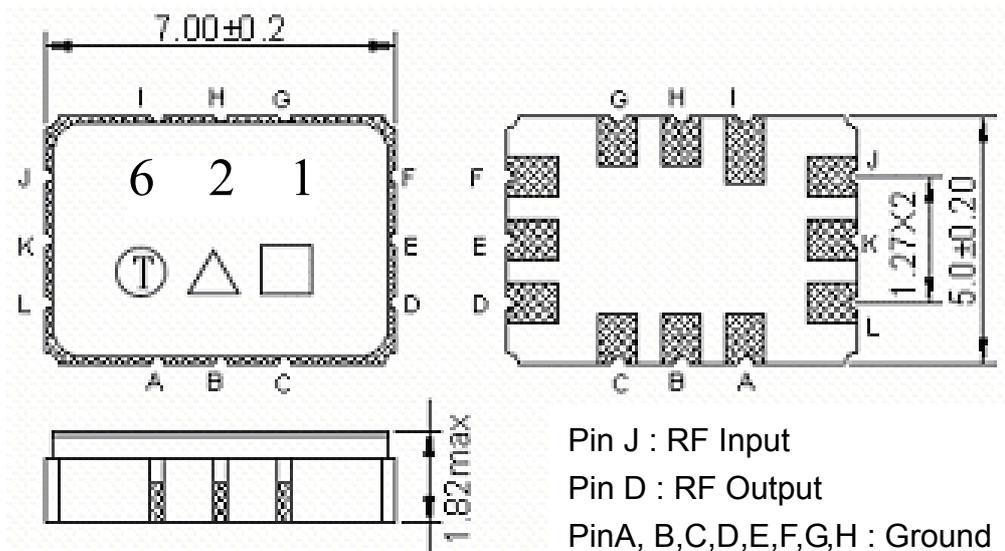
D. MEASUREMENT CIRCUIT

1. Single ended input 50 ohm to Single ended Output 50 ohm



$$L1=56\text{nH} \quad L2=47\text{nH} \quad C1=20\text{pF} \quad C2=18\text{pF}$$

E. OUTLINE DRAWING:



Pin J : RF Input

Pin D : RF Output

Pin A, B, C, D, E, F, G, H : Ground

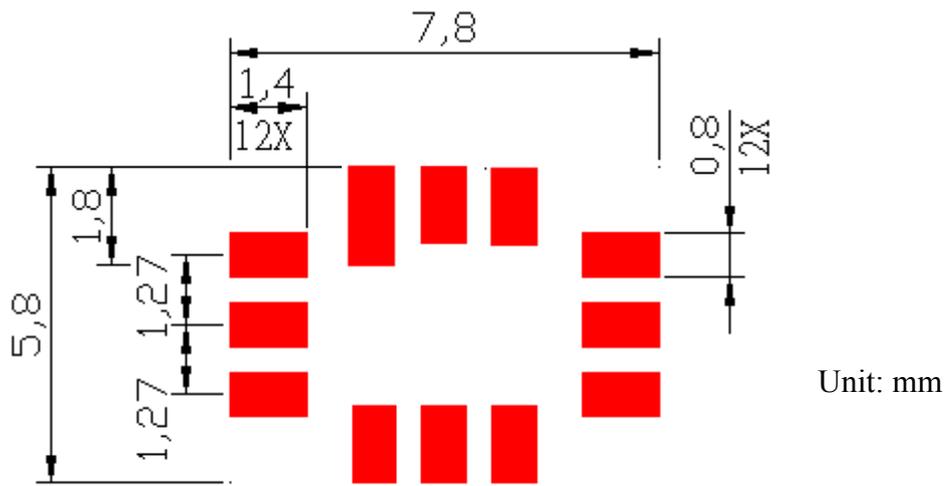
Unit: mm

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

△ : Product / Year Code

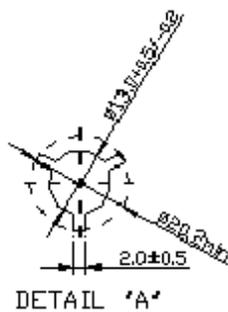
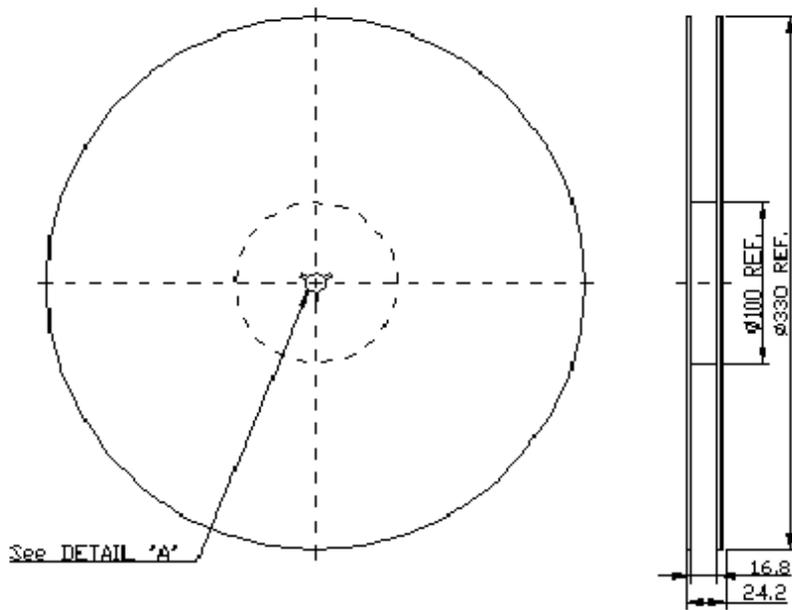
Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	<u>B</u>	<u>b</u>

F. PCB Footprint

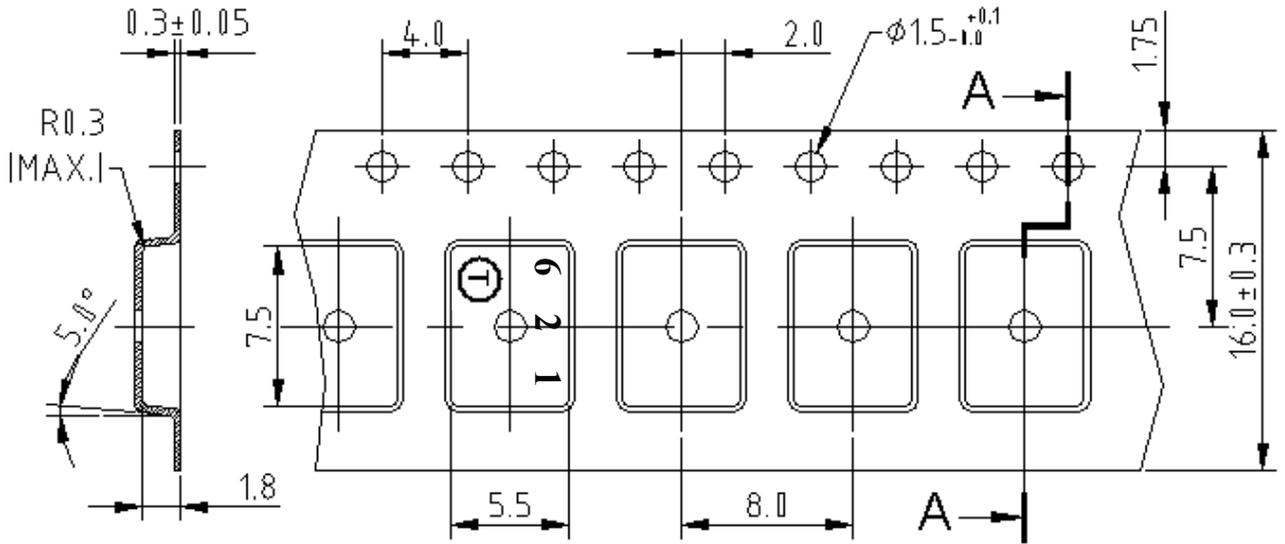


G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE_:

