



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet for Product Specification

Issued Date:

Product Name: 353.1MHz IF SAW Filter (BW=62 MHz)

TST Parts No.: TB0421A

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Andy Yu

Approval by: _____ Francis Chen

Date: _____ 03/26/2007



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SAW Filter 353.1MHz (SMD 5.0×7.0 mm)

MODEL NO.: TB0421A

Rev. NO. 1

A. MAXIMUM RATINGS:

1. Input Power Level: 10 dBm
2. Operating Temperature: -20 °C ~ 70°C
3. Storage Temperature: -40°C to 80°C

RoHS Compliant
Lead free
Lead-free soldering

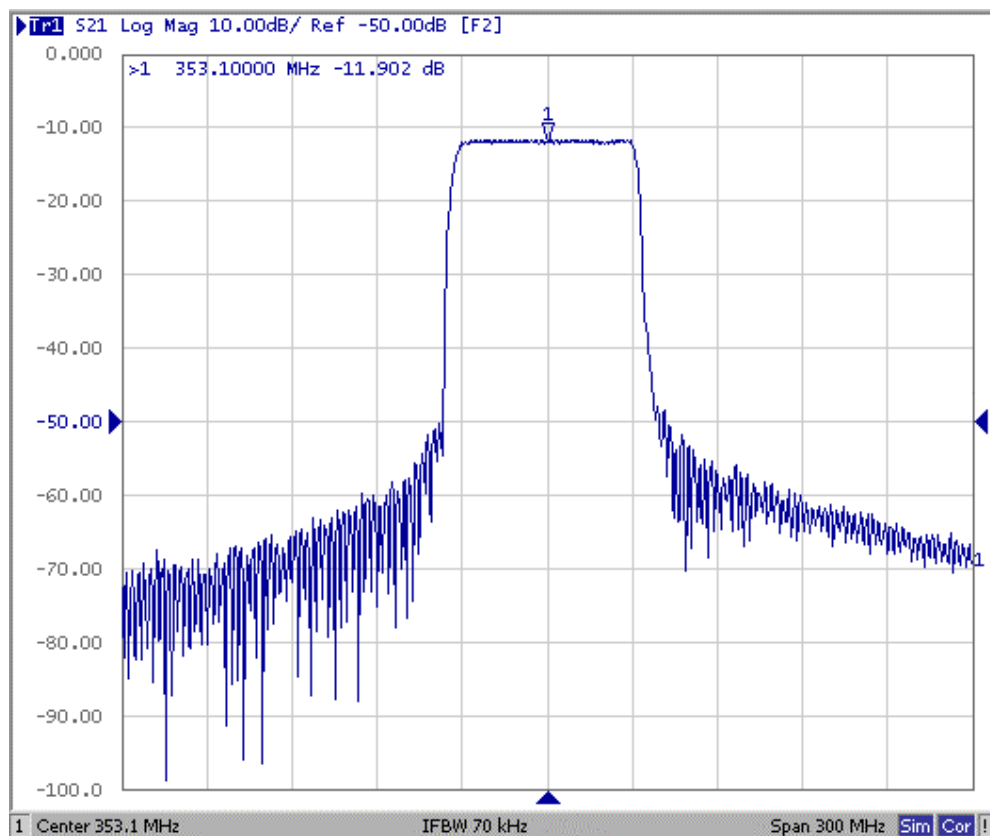
B. ELECTRICAL CHARACTERISTICS:

1. Ambient Temperature: 25 °C

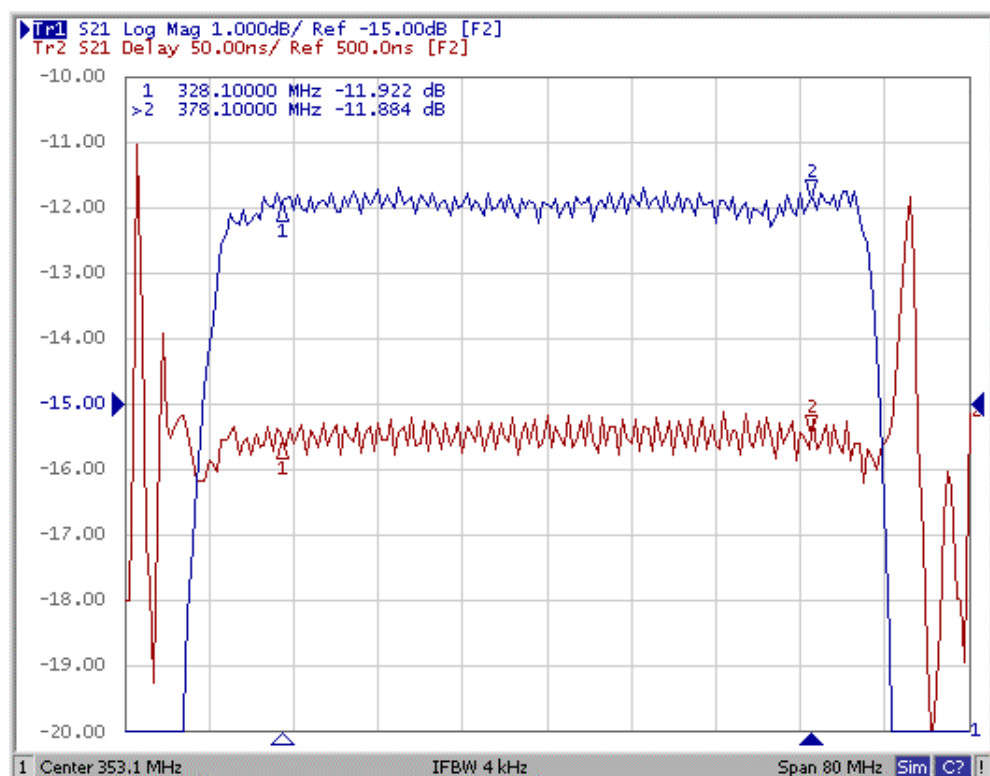
Characteristics		Value			Note
		Min.	Typ.	Max.	
Center frequency F_C	MHz	-	353.1	-	-
Minimum Insertion loss I.L.	dB	-	13.0	15	-
1 dB Bandwidth	MHz	62	64.5	-	-
3 dB Bandwidth	MHz	65	67.2	-	-
40 dB Bandwidth	MHz	-	79	-	-
Ripple (328.1~378.1MHz)	dB	-	0.5	1.0	-
Group-delay Ripple (323.1~383.1MHz)	nsec	-	30	100	-
Attenuation (Reference level from Minimum insertion loss)					
(1) 133.1~193.1MH	dB	25	60	-	-
(2) 611MHz	dB	40	60	-	-

C. Frequency Characteristics :

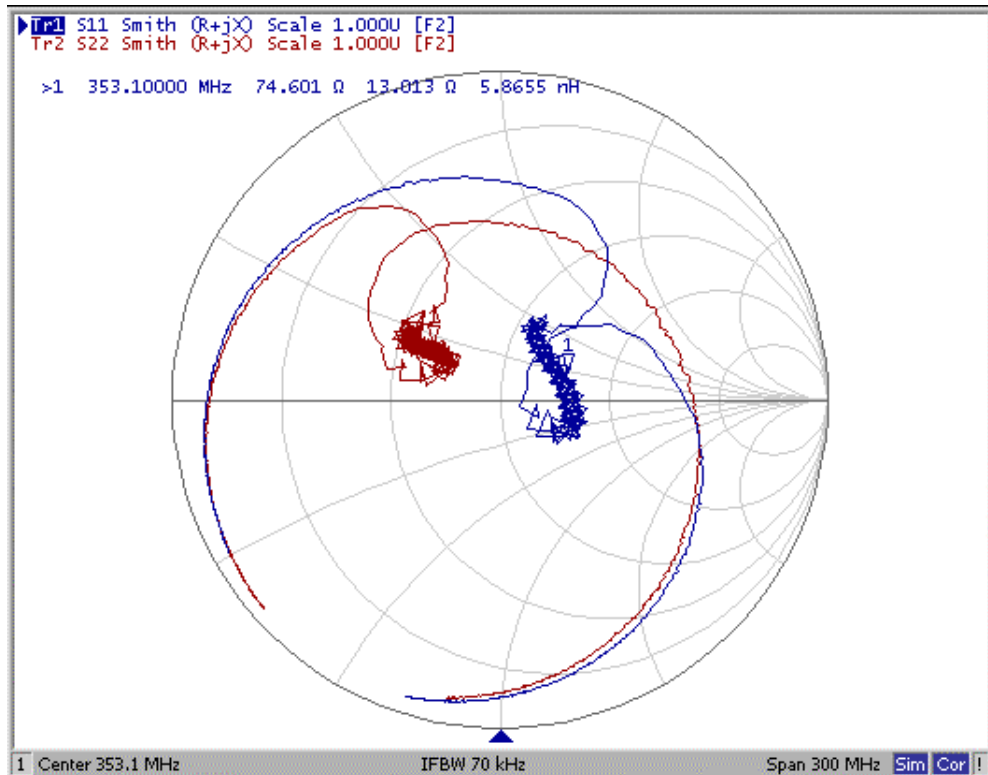
1. S21 Response:(span 300MHz)



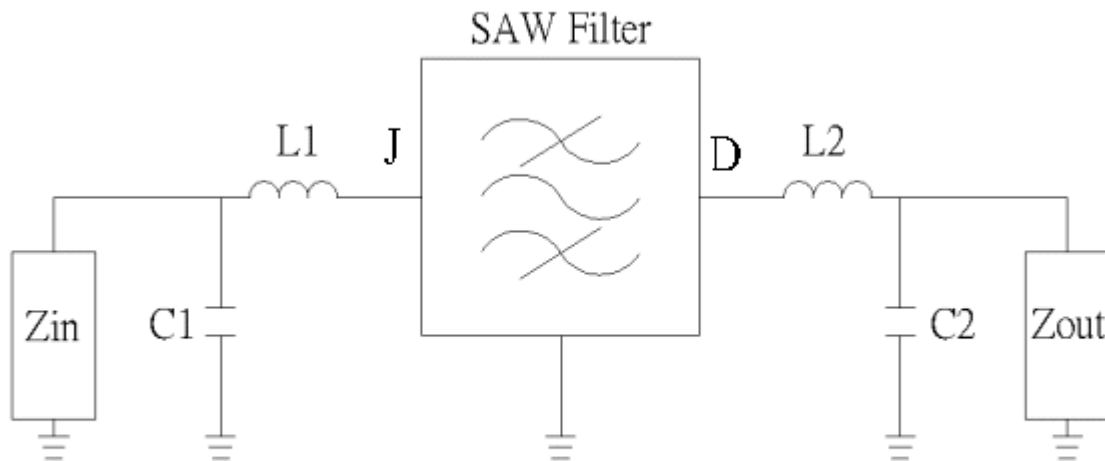
2. Passband Response: (span 100MHz)



3. S11, S22 Smith-Chart:



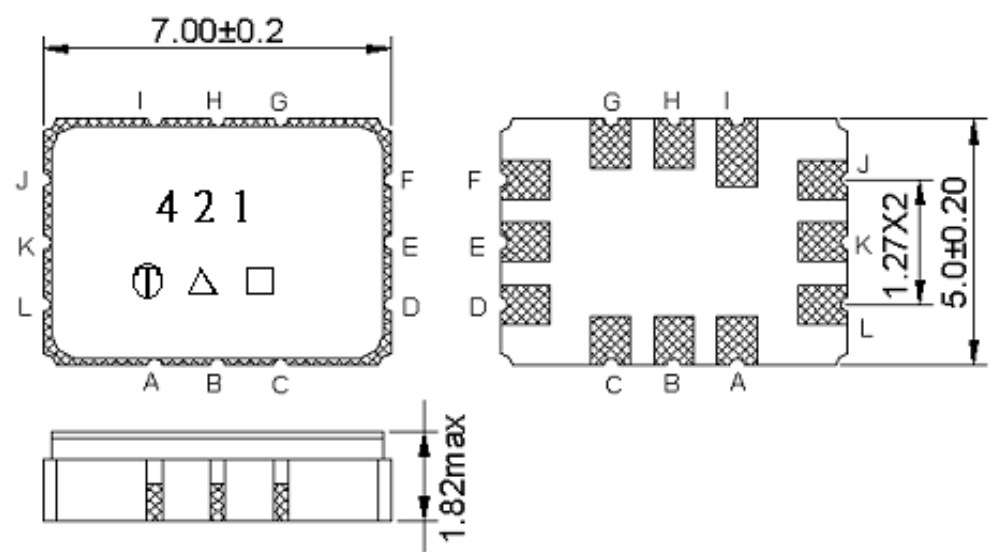
D. TEST CIRCUIT:



Z_{in} and Z_{out} are $50\ \Omega$.

$L1=10\text{nH}$, $C1=18\text{pF}$, $L2=12\text{nH}$, $C2=15\text{pF}$

E. OUTLINE DRAWING:



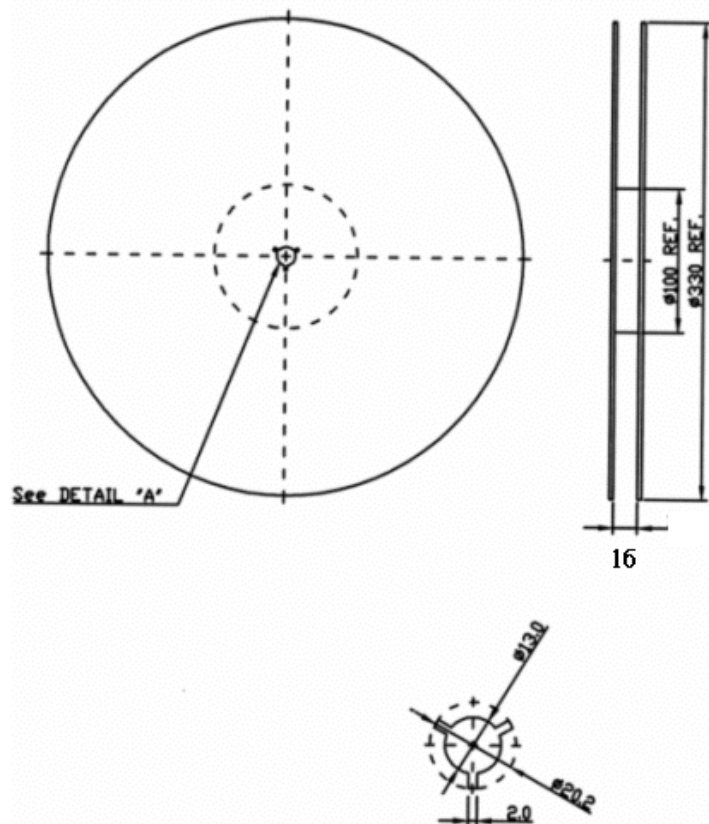
Pin J: RF input
Pin D: RF output
Pin K, L, A, B, C, E, F , I, H, G: Ground
□ : Week Code (Follow the table from planner each year)
Unit : mm
△ : Product / Year Code

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

F. PACKING:

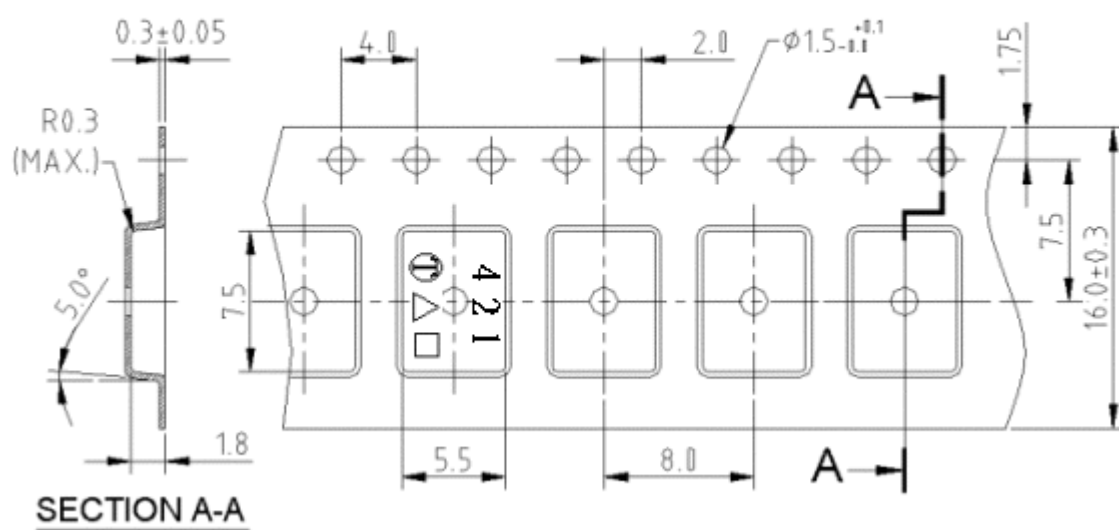
1. REEL DIMENSION

(Reel Count: 7"=1000 typ.; 13"=2000 typ.)



2. TAPE DIMENSION

KTR0180 FOR(5.0X7.0)



Direction of feed

G. Recommended Reflow Profile:

