



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet for Product Specification

Issued Date:

Product Name: 257.5MHz IF SAW Filter (BW=35 MHz)

TST Parts No.: TB0475A

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Andy Yu *Andy*

Approval by: _____ Francis Chen *Francis*

Date: _____ 11/10/2009

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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TST DCC
Release document

FR-71S03-02



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SAW Filter 257.5MHz (SMD 13.3×6.5 mm)

MODEL NO.: TB0475A

Rev. NO. 1.0

A. MAXIMUM RATINGS:

1. Operating Temperature: -30°C to 60°C
2. Storage Temperature: -40°C to 85°C
3. Input Power: 15dBm

RoHS Compliant
Lead free
Lead-free soldering

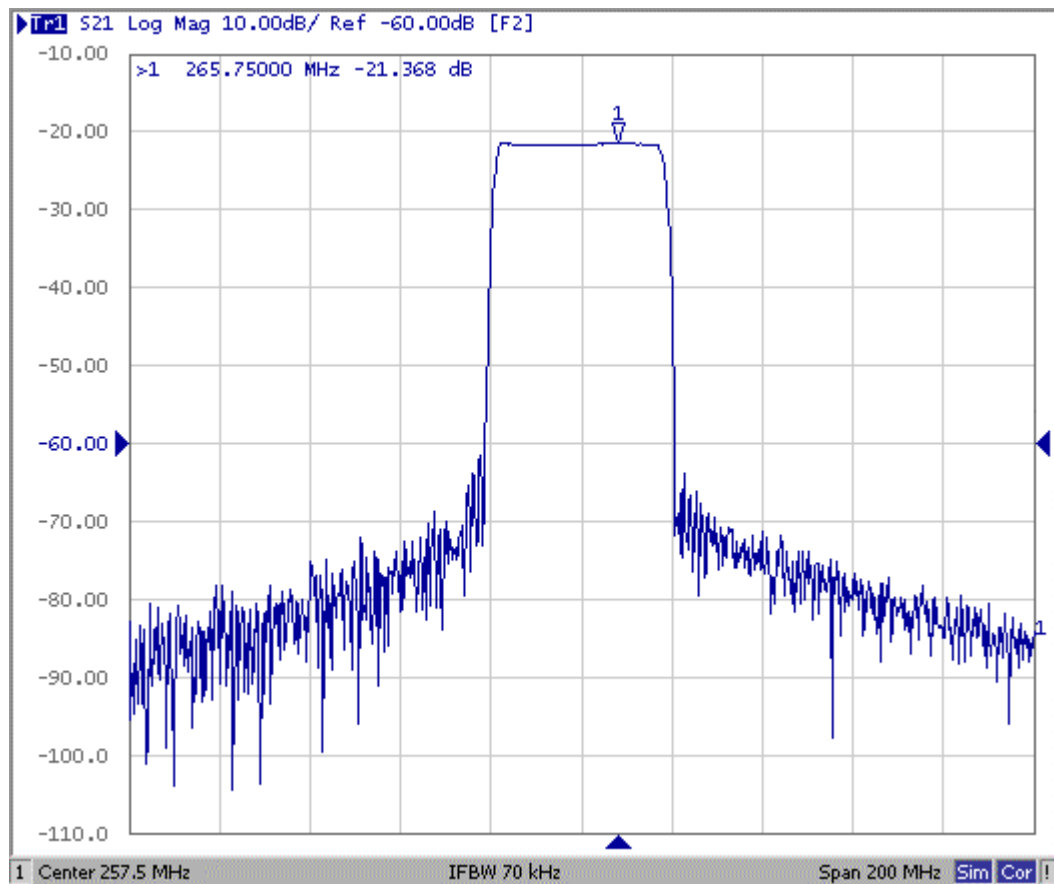
B. ELECTRICAL CHARACTERISTICS:

1. Ambient Temperature: 25 °C

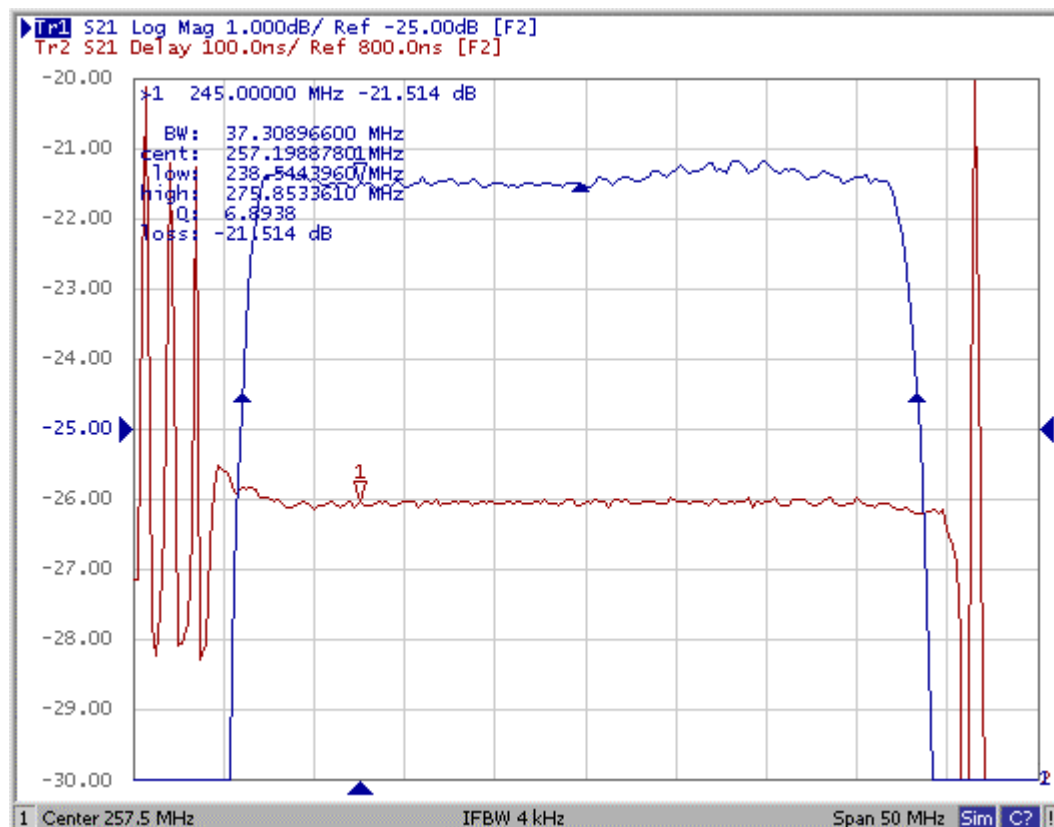
Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency F_c MHz	-	257.5	-	
Minimum Insertion loss I.L. dB	-	22.0	24	
Upper -1dB Frequency MHz	275	275.9	-	
Lower -1dB Frequency MHz		238.57	240	
45 dB Bandwidth MHz	-	42.2	44	
Amplitude Ripple ($F_c \pm 17.5\text{MHz}$) dB	-	1.0	1.5	
Within a contiguous 1.5MHz span (p-p) dB	-	0.3	0.6	
Substrate Material	-	LiTaO3	-	
Temperature Coefficient ppm/°C	-	-23	-	
Relative Rejection (Reference to Minimum Insertion loss)				
1) 227.5MHz dB	40	46	-	
2) 287.5MHz dB	40	48	-	

C. Frequency Characteristics :_

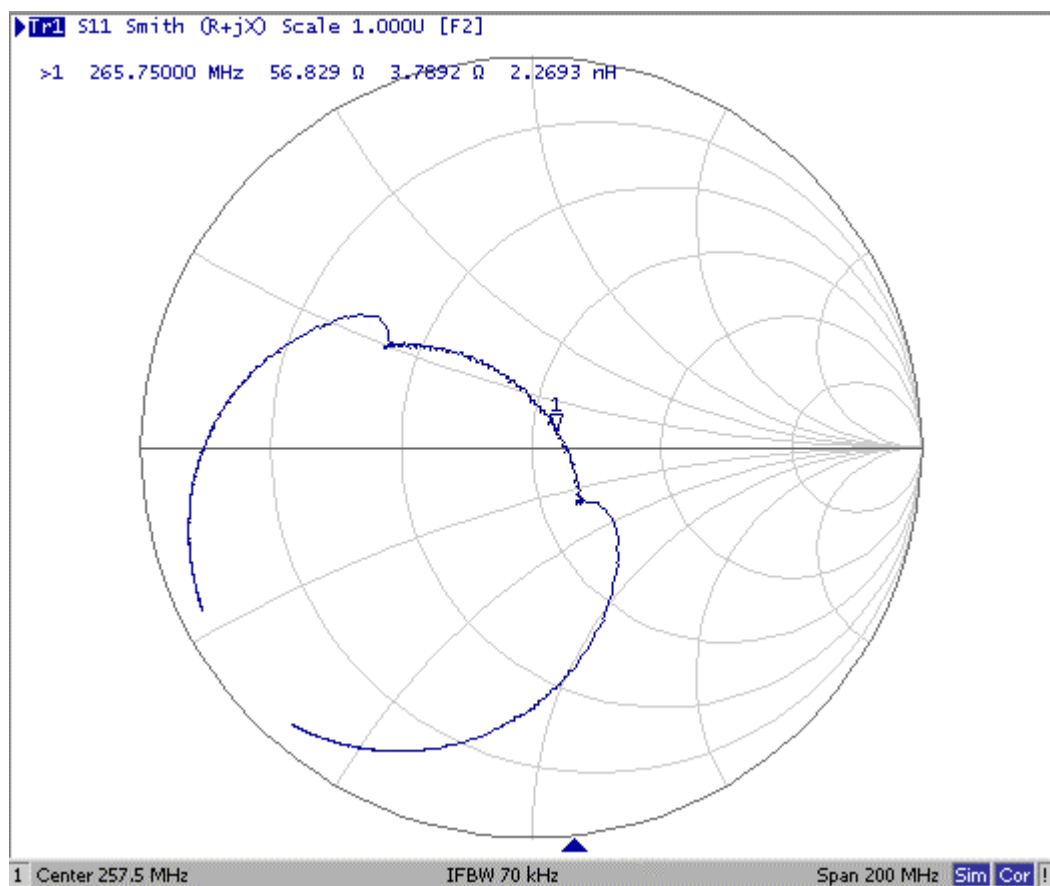
1. S21 Response: (span 200MHz)



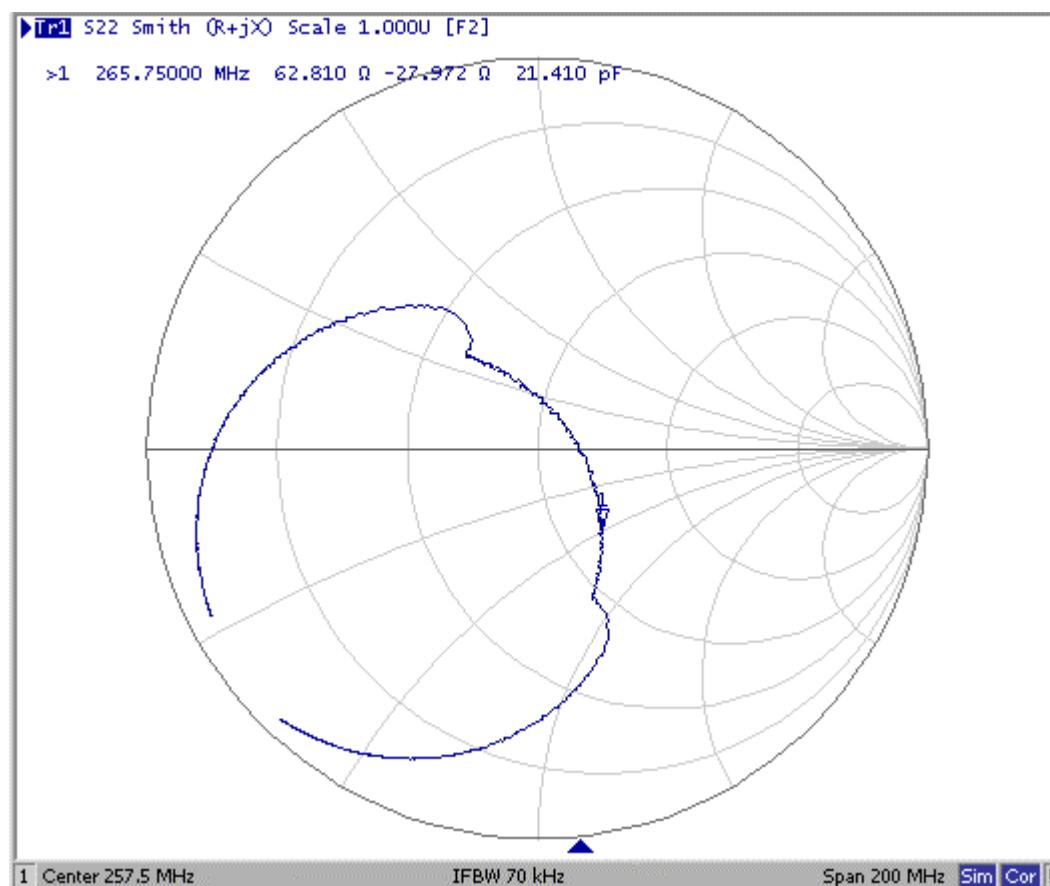
2. S21 Response: (span 50MHz)



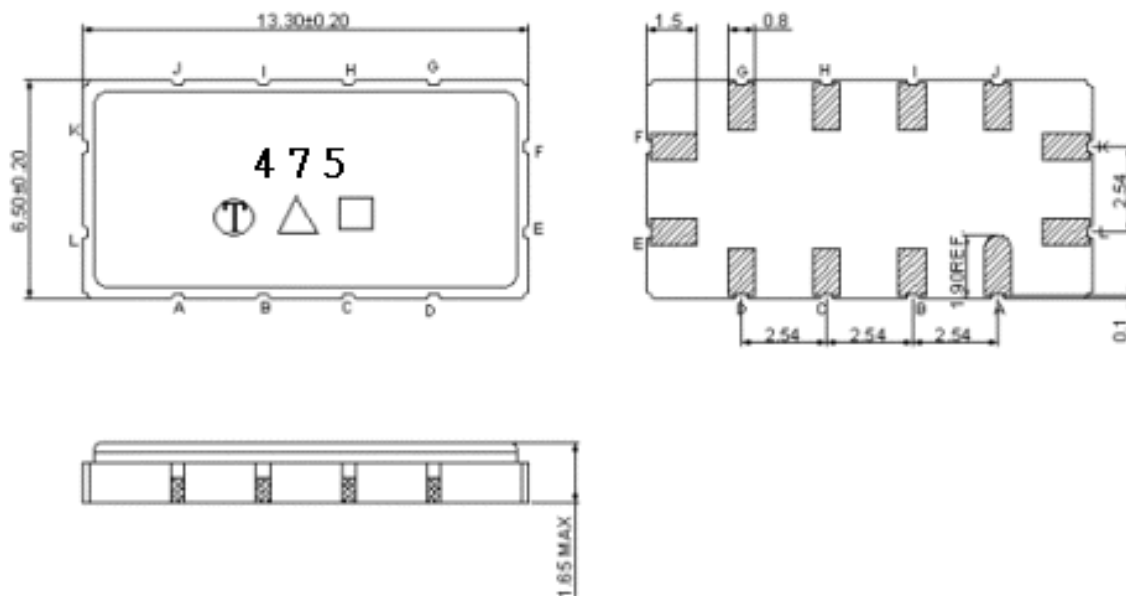
3. S11 Smith-Chart: (span 200MHz)



4. S22 Smith-Chart: (span 200MHz)



D. Outline Drawing:



Pin K: RF input

Pin E: RF output

Pin A, B, C, D, G, H, I, L, F, J: To be Ground

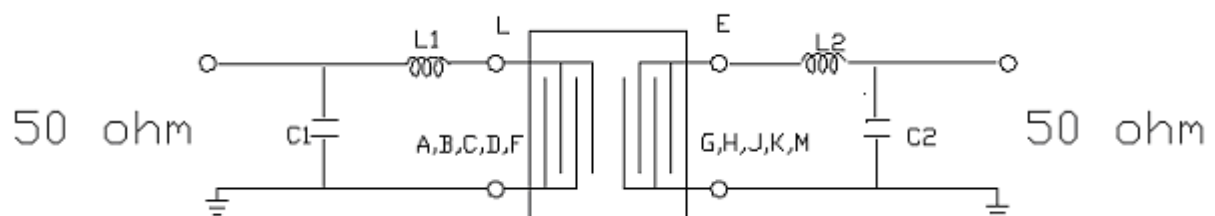
□ : Week Code (Follow the table from planner each year)

Unit : mm (week01, 02, 03...52 =>A, B, C...z)

△ : Product / Year Code

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

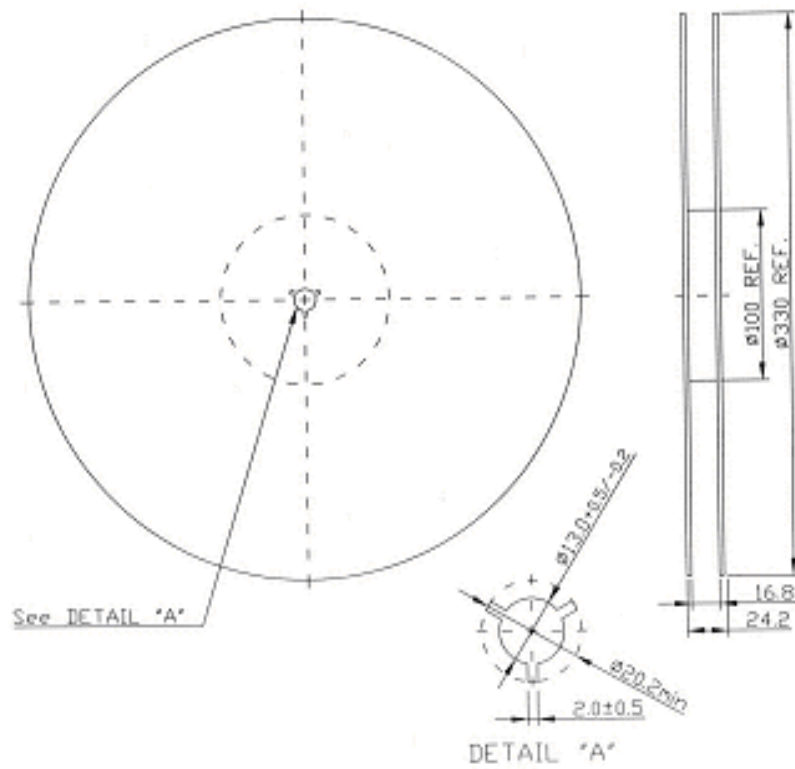
E. Matching Circuit Configuration:



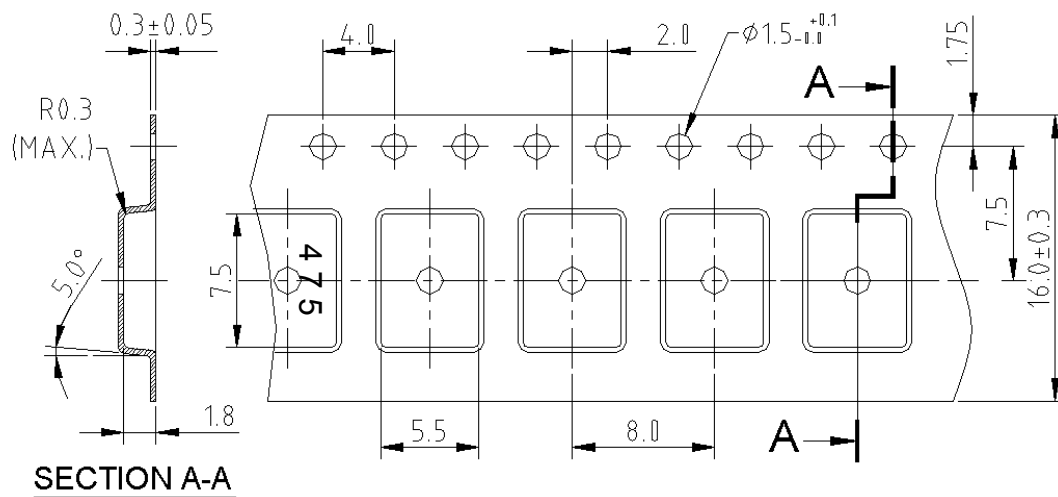
$$L1=13\text{nH}, C1=30\text{pF}, L2=19\text{nH}, C2=35\text{pF}$$

F.PACKING:

1.REEL DIMENSION



2.TAPE DIMENSION



Direction of feed

G. Recommended Reflow Profile:

