



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Product Name: SAW Filter 425MHz SMD 5.0×7.0mm

TST Parts No.:TB0784A

Customer Parts No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Andy Yu *Andy*

Approval by: _____ Francis Chen *Francis Chen*

Date: _____ 10/20/2009

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 425 MHz(BW=0.5MHz) SMD 5.0mmX7.0mm

MODEL NO.: TB0784A

REV.1.0

A. MAXIMUM RATING:

1. Operating Temperature: -40 °C ~ +85 °C
2. Storage Temperature: -54 °C ~ +85 °C
3. Input power: 10dBm

RoHS Compliant
Lead free
Lead-free soldering

B. Characteristics :

Ambient Temperature: 25 °C

Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency F_c MHz	-	425	-	-
Minimum Insertion loss I.L. dB	-	6.5	9.5	-
1dB BW Lower Frequency MHz	0.5	0.9	-	-
Passband Ripple ($F_c \pm 250\text{KHz}$) dB	-	0.3	1.0	-
Attenuation (Reference to Minimum Insertion loss)				
$F_c+3 \sim F_c+200\text{MHz}$ dB	40	46	-	-
$F_c-3 \sim F_c-200\text{MHz}$ dB	40	45	-	-
Temp Coefficient ppm/K	-	-0.032	-	-
Matching:				
1.The input of the filter will be matched to <u>50 ohm</u>				
2.The output of the filter will be matched to <u>50 ohm</u>				

D. FREQUENCY CHARACTERISTICS :

1.S21 Response: (span : 50MHz)

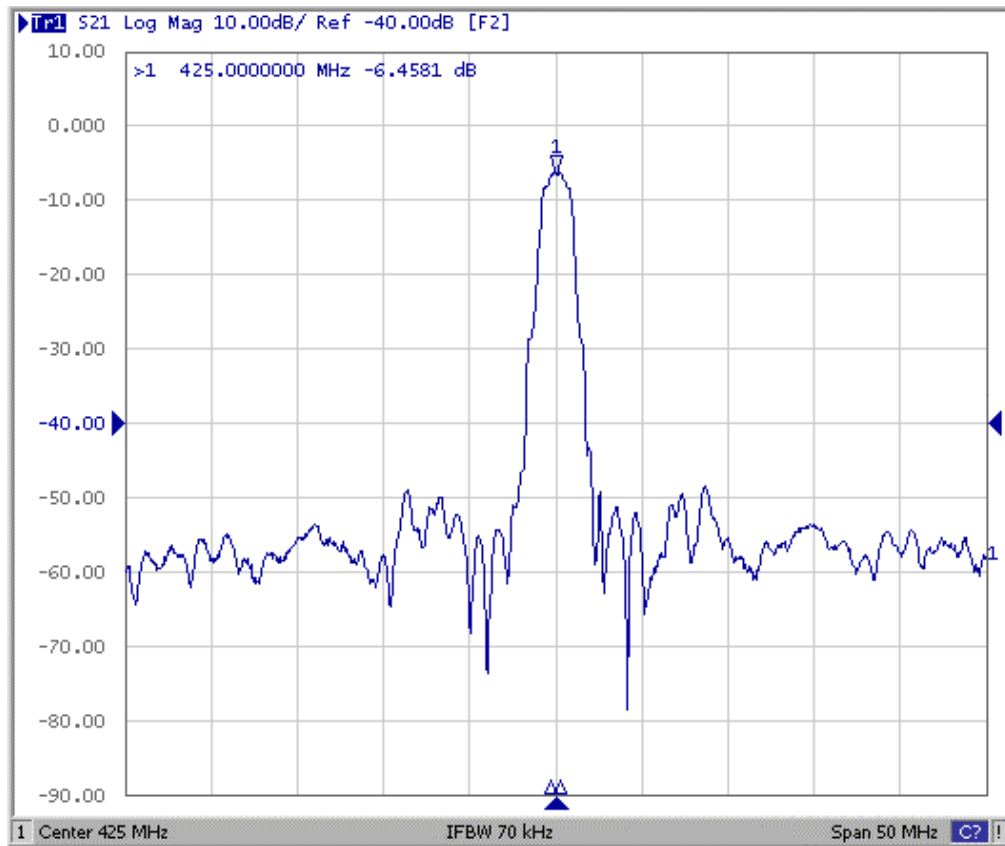


Fig1. Horizontal:5MHz/Div Vertical: 10dB/Div

2. Group-Delay Ripple: (span : 10MHz)

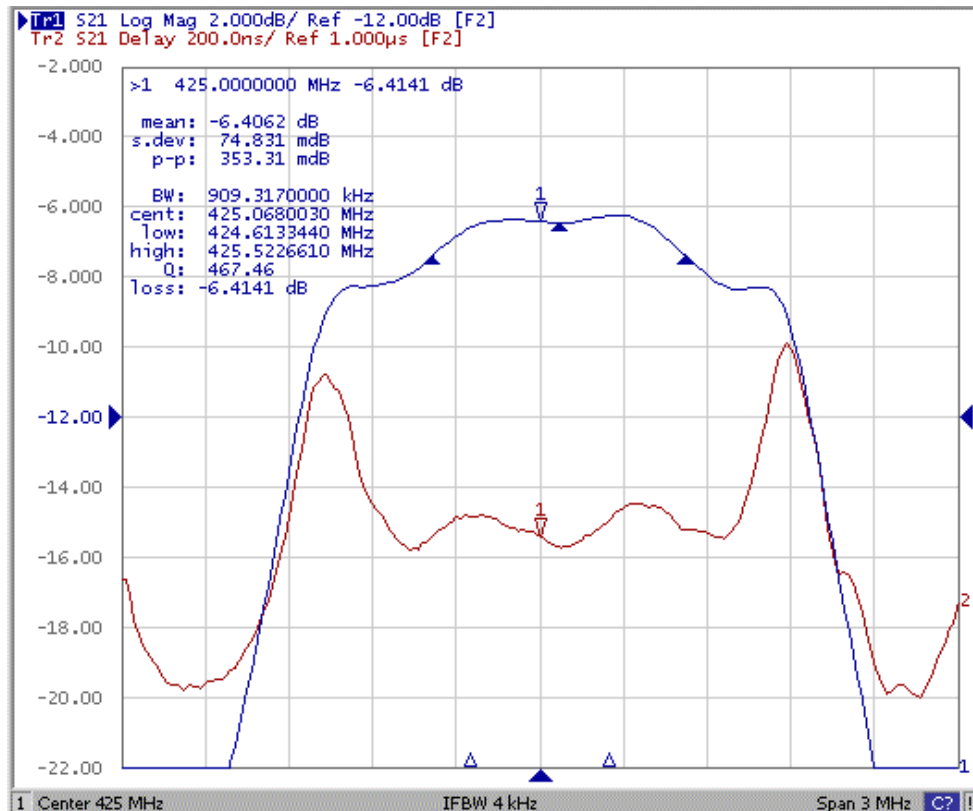
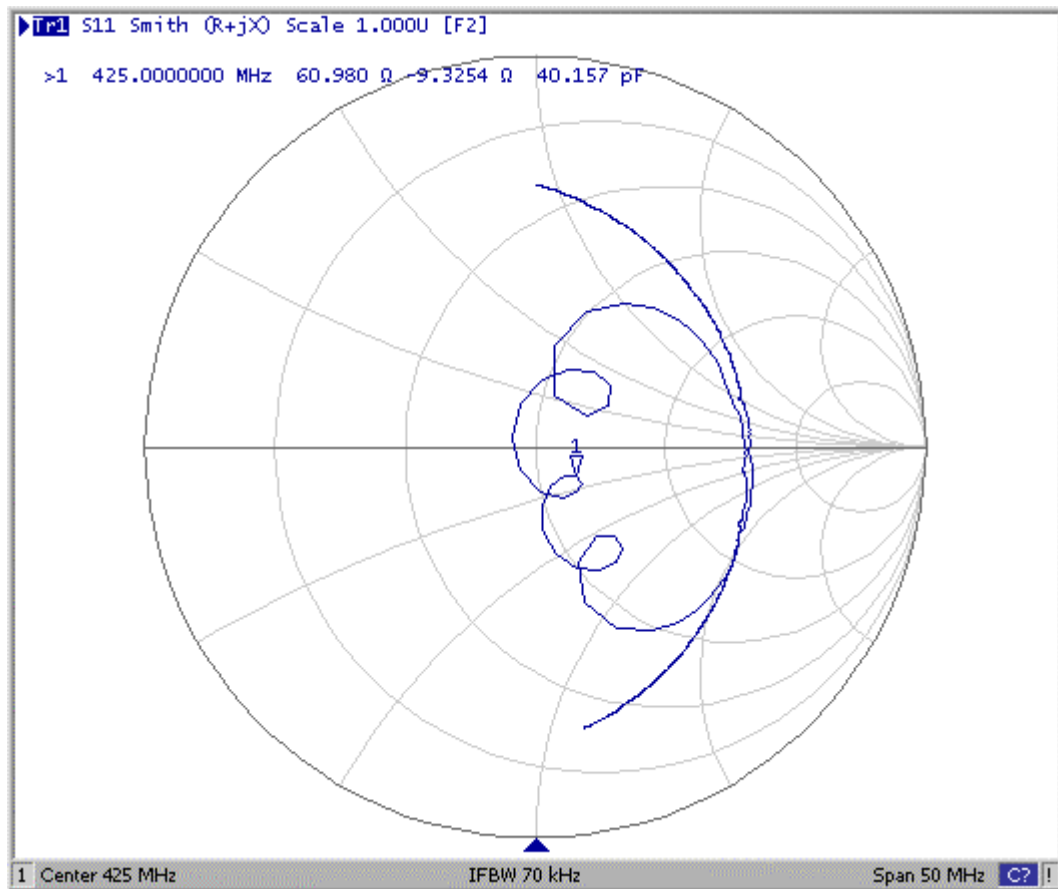
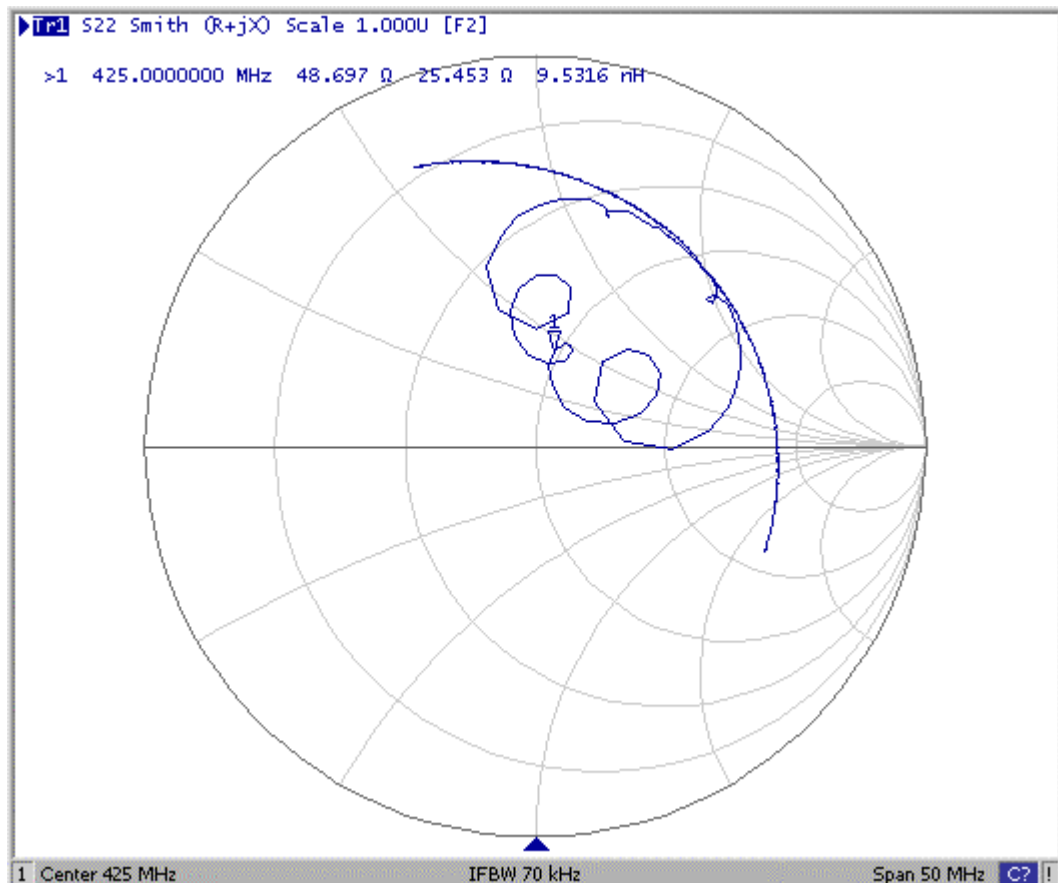


Fig2. Horizontal: 0.3MHz/Div Vertical: 200nec/Div

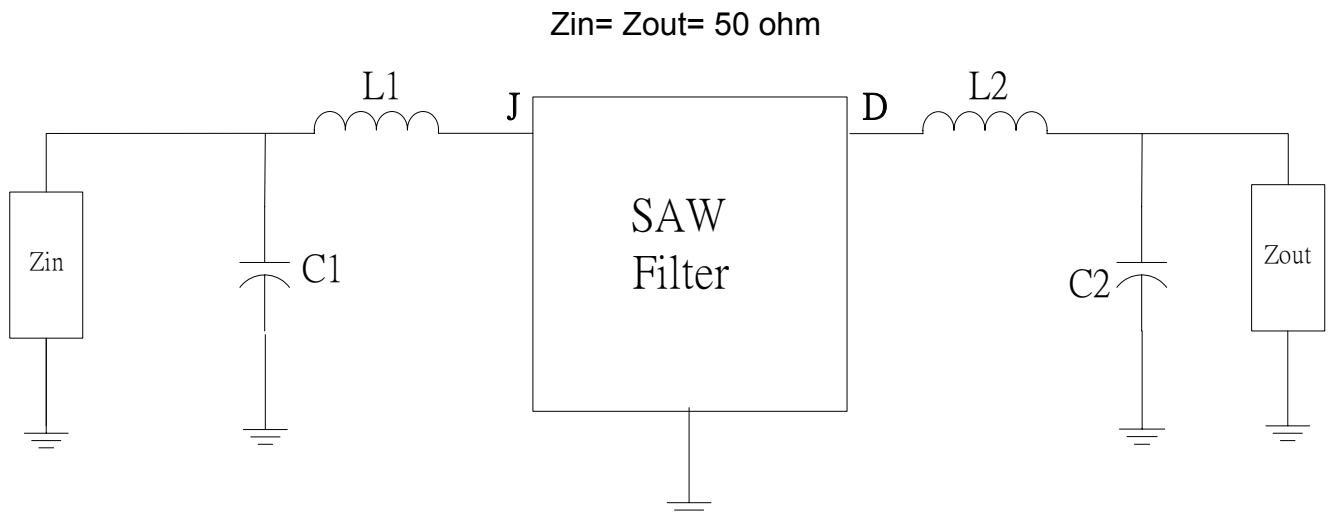
3. S11 Smith Chart: (span : 50MHz)



4. S22 Smith Chart (span : 50MHz)

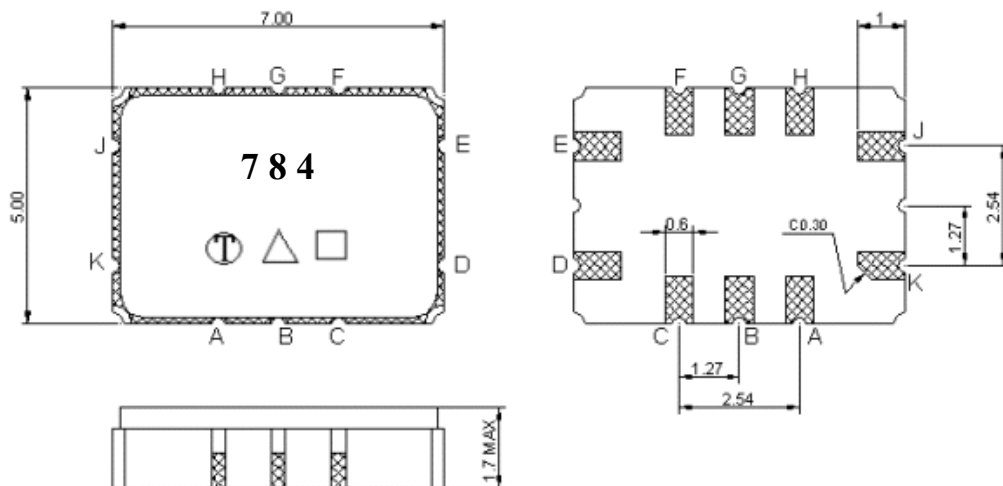


E. MEASUREMENT CIRCUIT



$L1=15\text{nH}, C1=18\text{pF}, L2=16\text{nH}, C2=12\text{pF}$

F. OUTLINE DRAWING:



Pin J: RF input

Pin D: RF output

Pin K, E: Case Ground

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

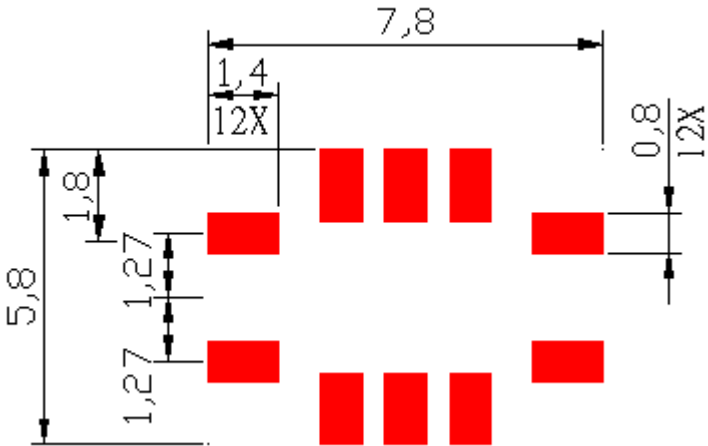
□: Week Code (Follow the table from planner each year)

Unit : mm

△ : Product / Year Code

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

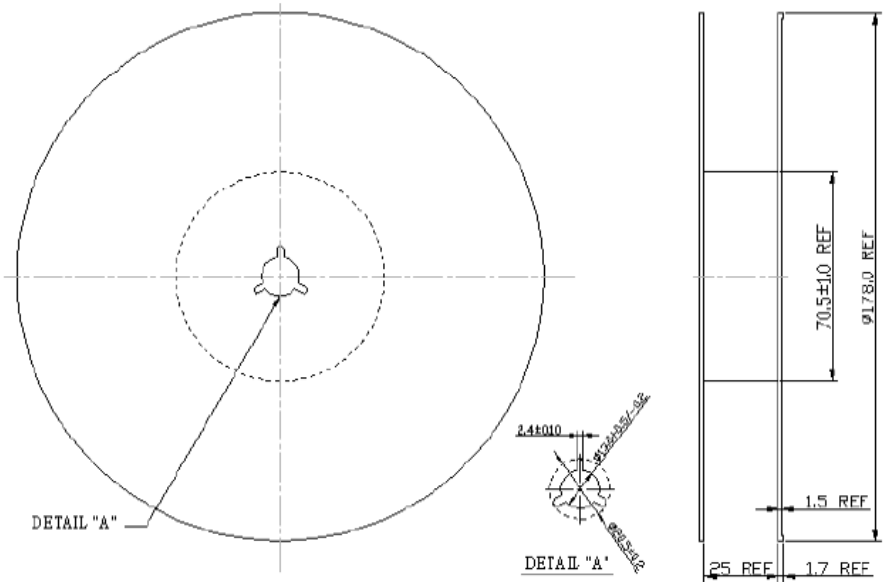
G. PCB Footprint



Unit: mm

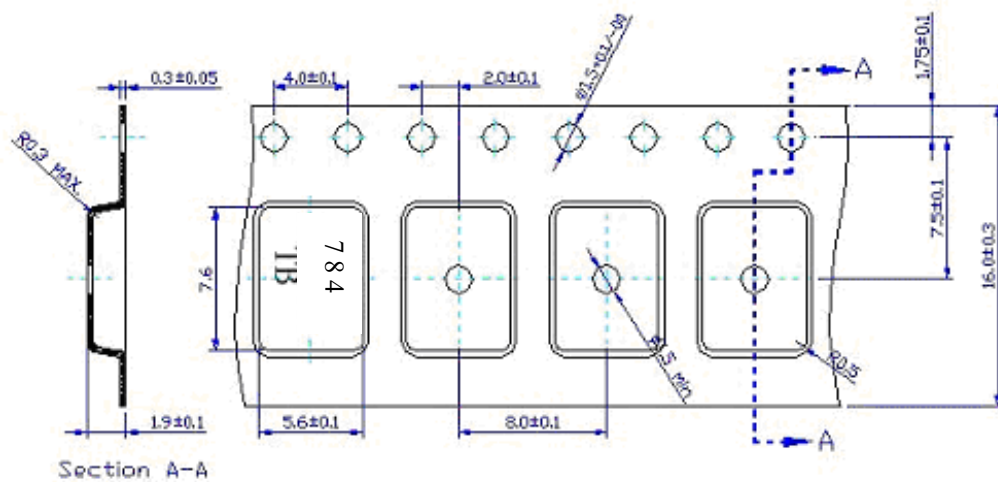
H. PACKING:

1. REEL DIMENSION



Unit: mm

2. TAPE DIMENSION



Unit: mm

I. RECOMMENDED REFLOW PROFILE:

