



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date:

Product Name: IF SAW Filter 168.5 MHz

TST Parts No.:TB0260A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Andy Lee

Approval by:_____ Francis Chen

Date:_____ 2007/12/28



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IF SAW Filter 168.5 MHz SMD 5X5mm

MODEL NO.: TB0260A

REV. NO.:5

A. Maximum Rating:

1. Input power level: max. 20 dBm for ≤ 100 hours
max. 5 dBm for ≤ 15 years
2. Operating Temperature: $-20^{\circ}\text{C} \sim +80^{\circ}\text{C}$
3. Storage Temperature: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$

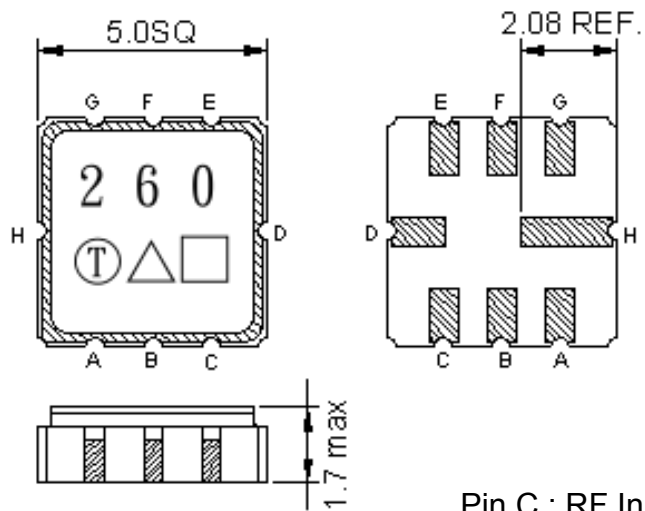
RoHS Compliant
Lead free
Lead-free soldering

B. Characteristics :

1. Ambient Temperature: 25°

Characteristics		Value			Note
		Min.	Typ.	Max.	
Center frequency	F _C MHz	-	168.5	-	-
3dB Bandwidth		-	28	-	-
Maximum Insertion loss	I.L. (158.5~178.5MHz) dB	-	8	10	-
Passband Ripple	(158.5~178.5MHz) dB	-	0.8	1	-
Group Delay Ripple	(158.5~178.5MHz) nS	-	45	100	-
Input VSWR (158.5~178.5MHz)			1.3	2	
Output VSWR (158.5~178.5MHz)			1.9	2.5	
Phase linearity	(158.5~178.5MHz) (p-p ^o)		6		
Attenuation:(Reference level from minimum insertion loss)					
1)	DC ~ 100 MHz dB	45	47	-	-
2)	100 ~ 149 MHz dB	35	37	-	-
3)	190 ~ 250 MHz dB	33	38	-	-
4)	250 ~ 300 MHz dB	45	48	-	-

C. Outline Drawing:



Pin C : RF Input

Pin G : RF Output

Pin A,B,D,E,F,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>

D. Frequency Characteristics :

1. S21 Response

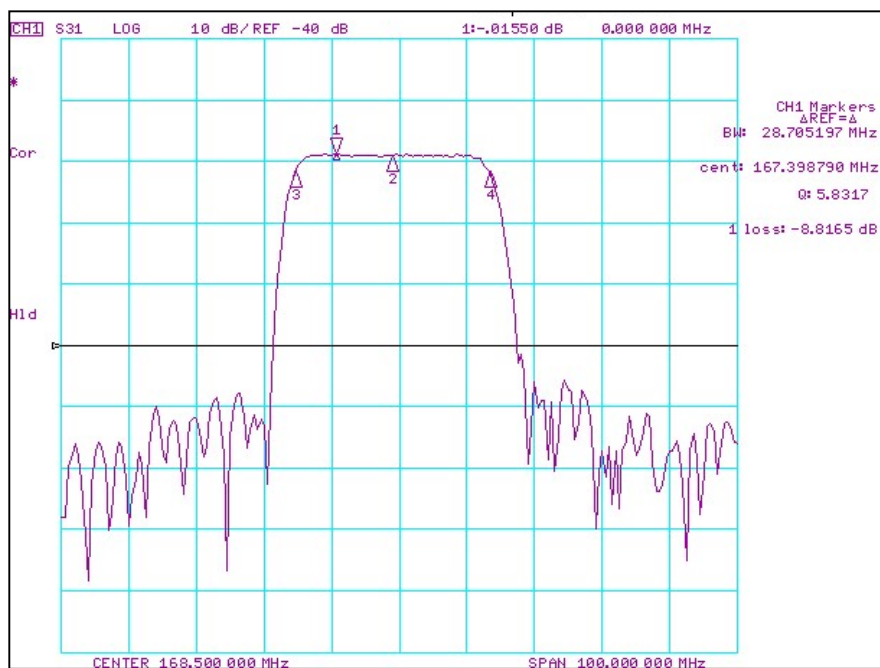


Fig.1 Horizontal : 10MHz/Div Vertical: 10dB/Div

2. Pass band Ripple and Group Delay Ripple

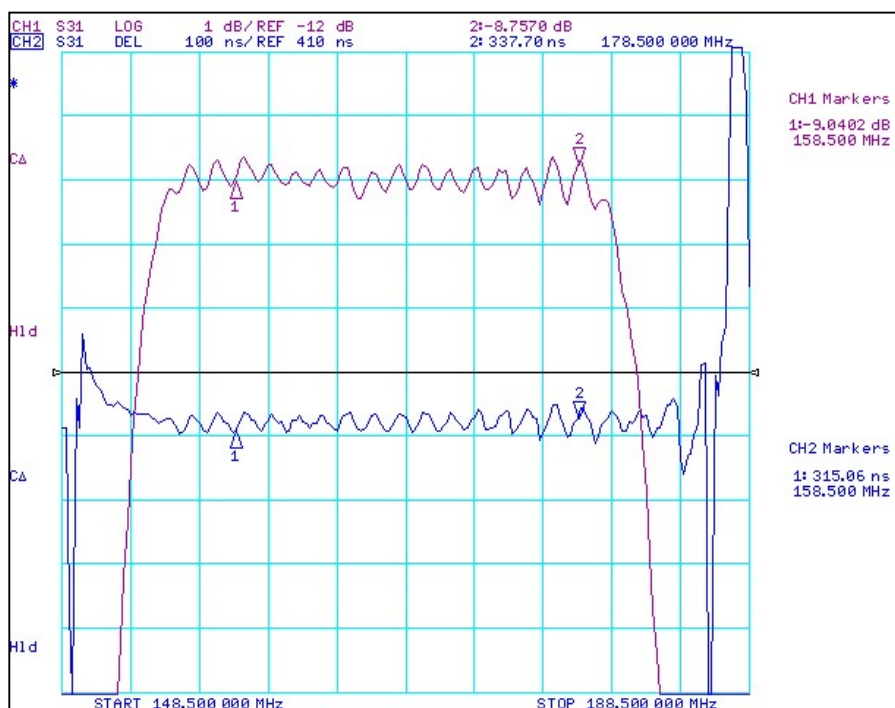


Fig. 2 Horizontal : 4MHz/Div Vertical: 1dB/Div Vertical: 100nS/Div

3. Wide band Response

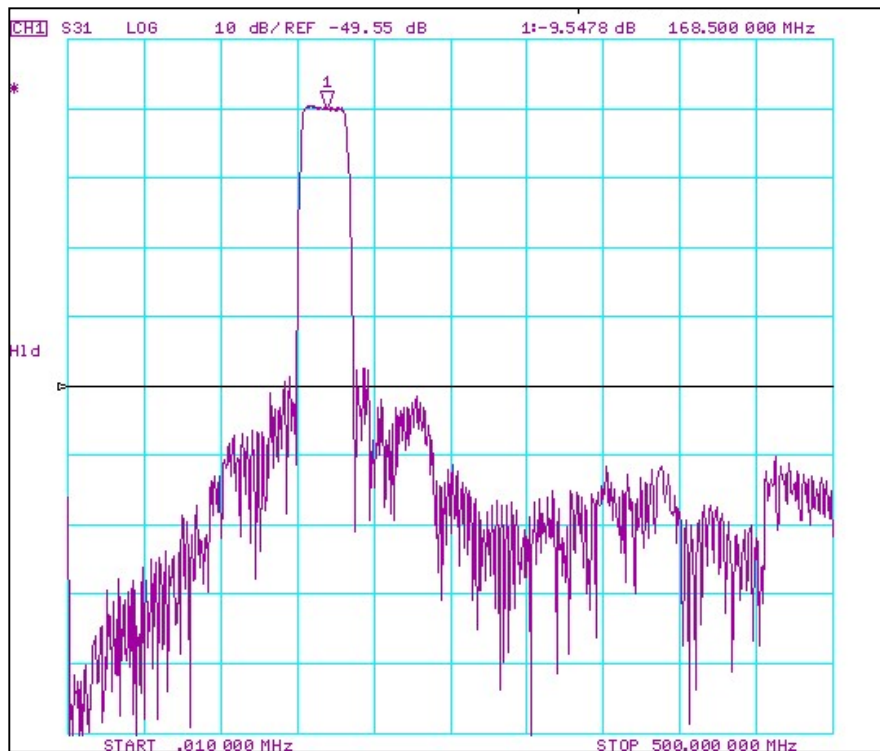


Fig. 3 Horizontal : 10MHz~500MHz

4. Input VSWR

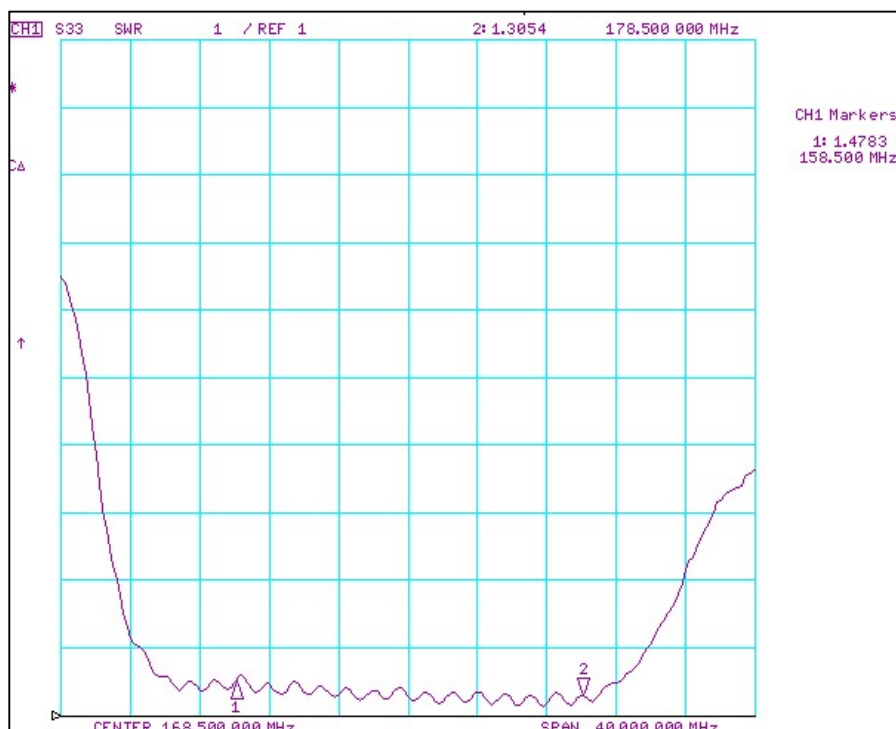


Fig. 4 Horizontal : 148.5MHz~188.5MHz

5. Output VSWR

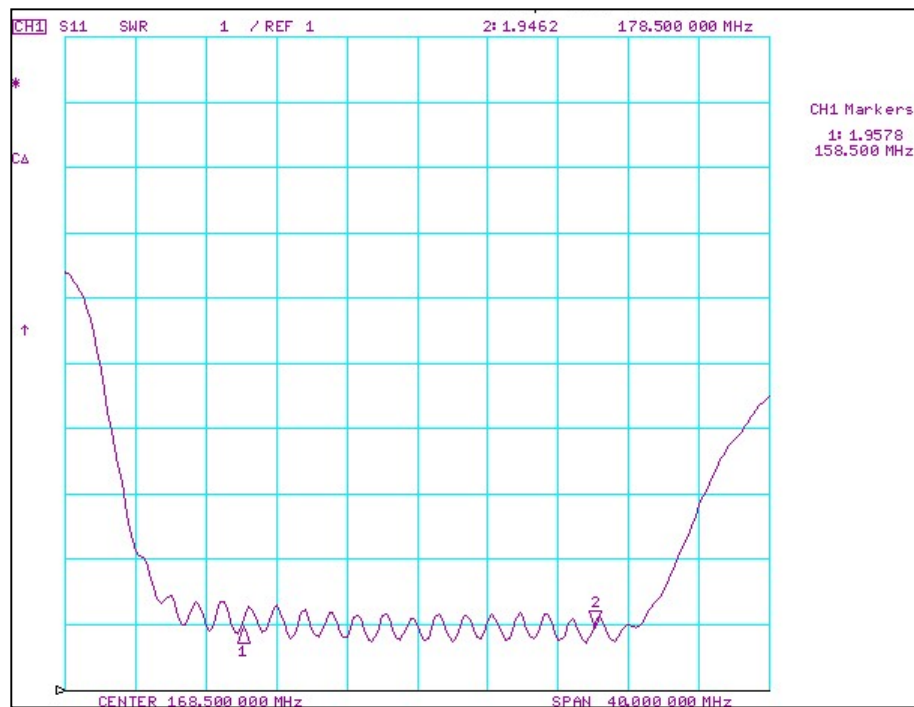
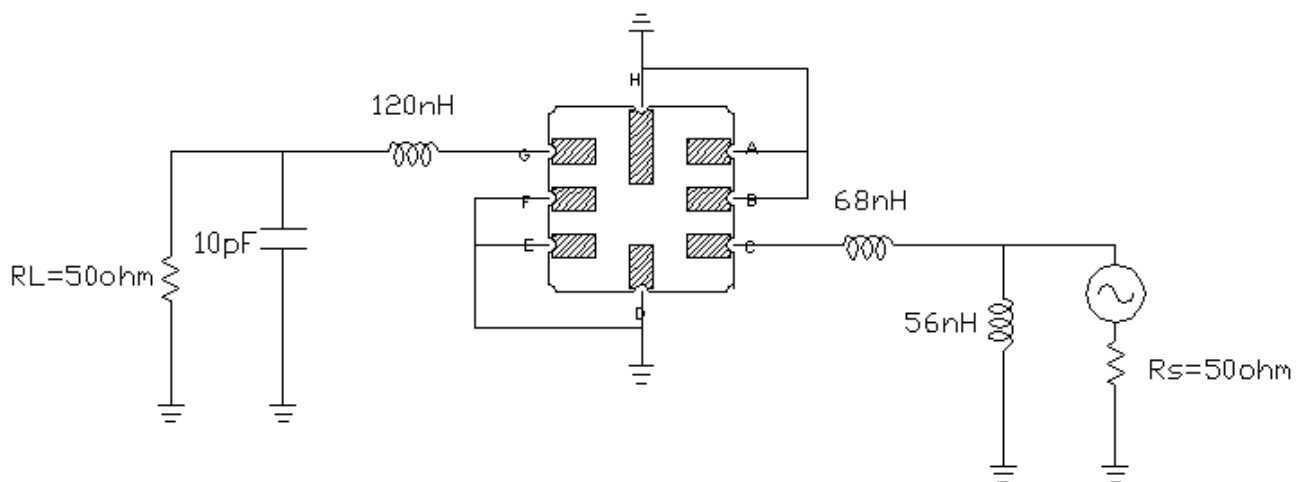
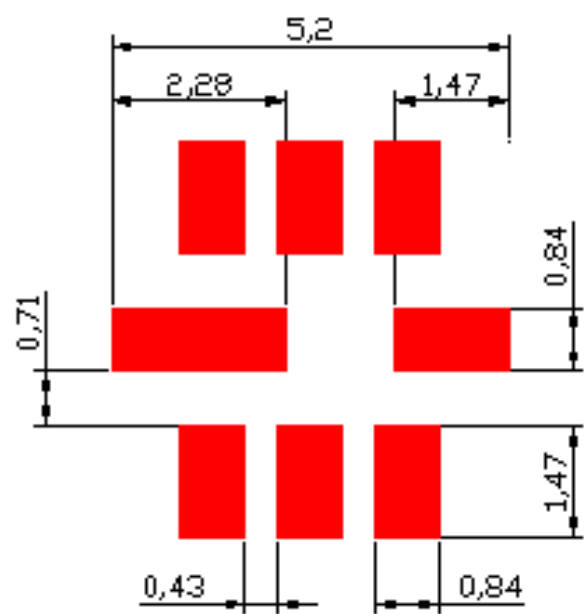


Fig. 5 Horizontal : 148.5MHz~188.5MHz

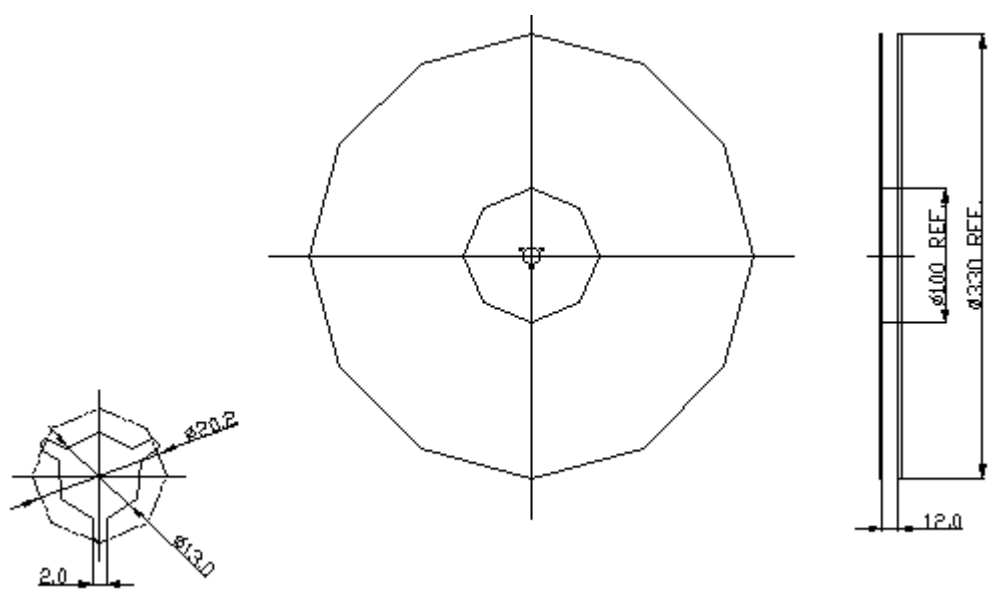
E. TEST FIXTURE :



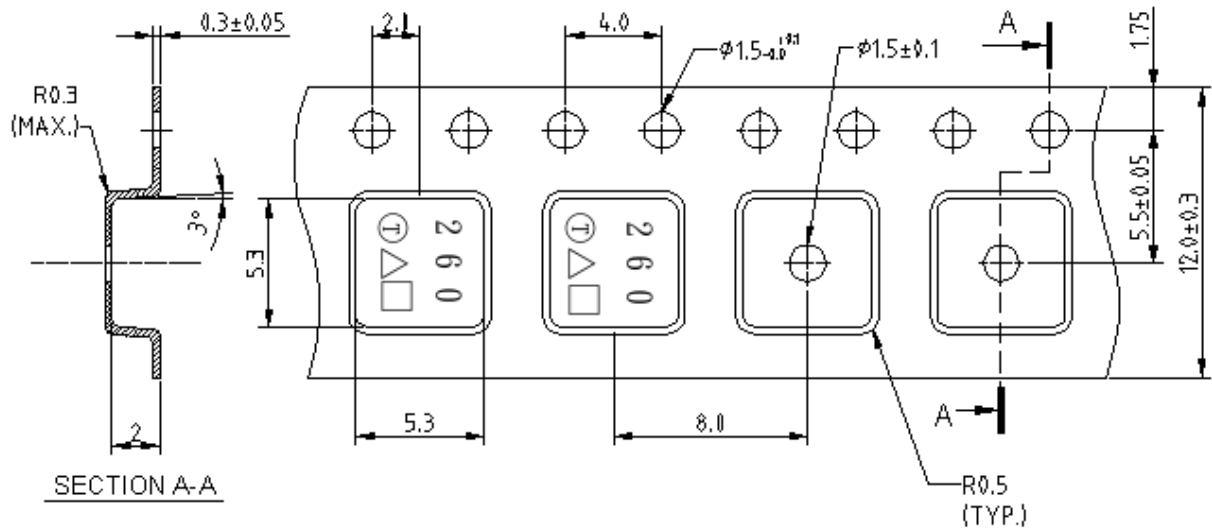
F. PCB Footprint



G. Package:
1. REEL DIMENSION



2. TAPE DIMENSION



H. Recommended Reflow Profile_:

