TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.
TEL: 886-3-4690038 FAX: 886-3-4697532
E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

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

RoHS Compliant
Lead free
Lead-free soldering

A. Maximum Rating:

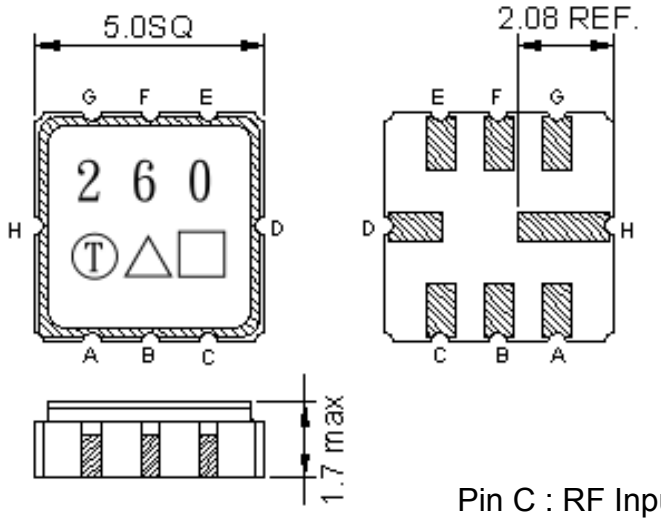
1. Input power level: max. 20 dBm for <=100 hours
   max. 5 dBm for <=15 years
2. Operating Temperature: -20 °C ~ +80 °C
3. Storage Temperature: -40 °C ~ +85 °C

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) ($p\text{-}p^o$)		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	B	b

D. Frequency Characteristics :

1. S21 Response

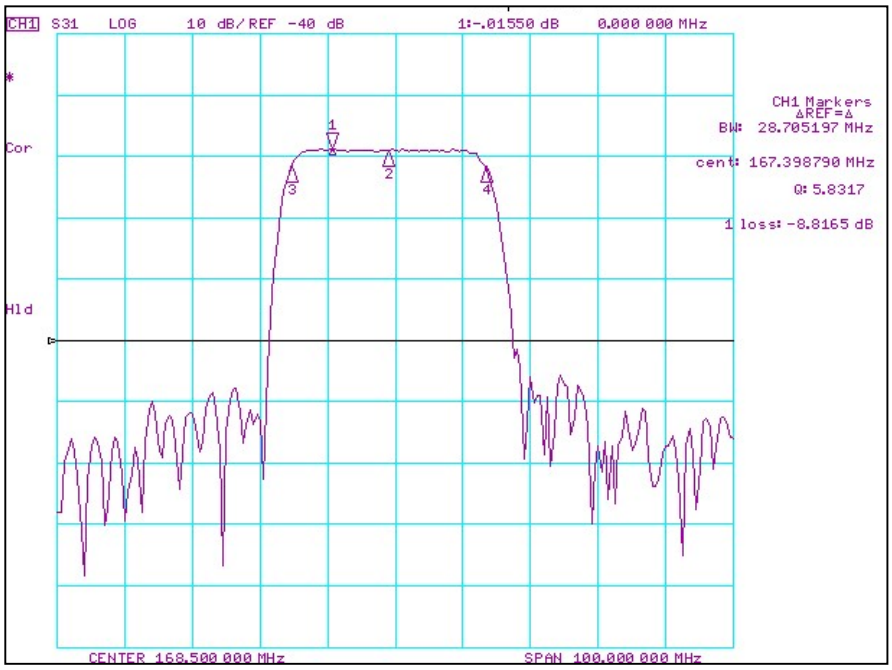


Fig.1 Horizontal : 10MHz/Div Vertical: 10dB/Div

2. Pass band Ripple and Group Delay Ripple



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

3. Wide band Response

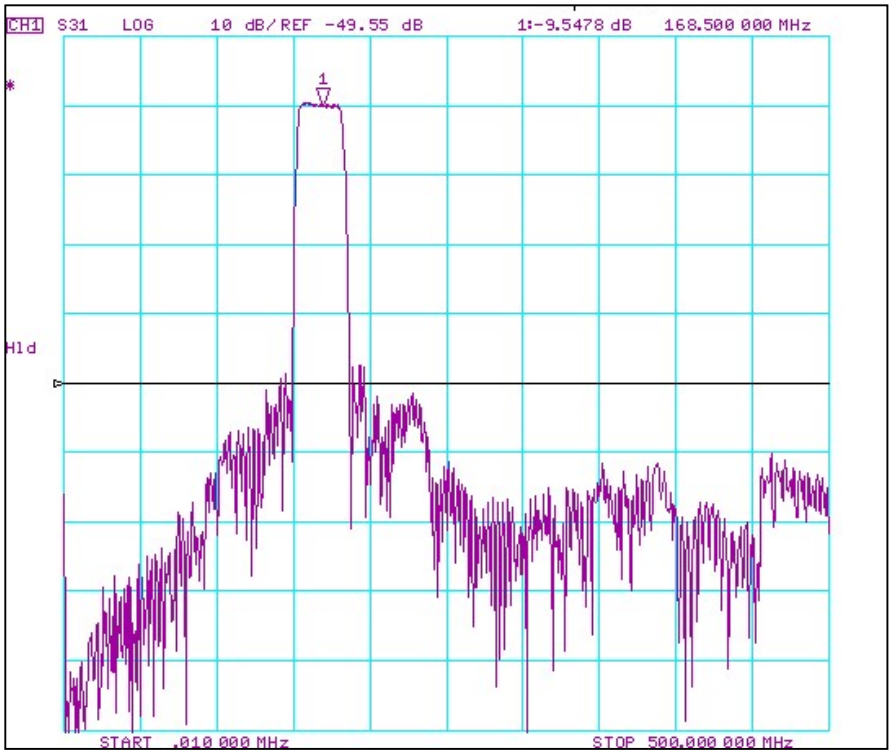


Fig. 3 Horizontal : 10MHz~500MHz

4. Input VSWR

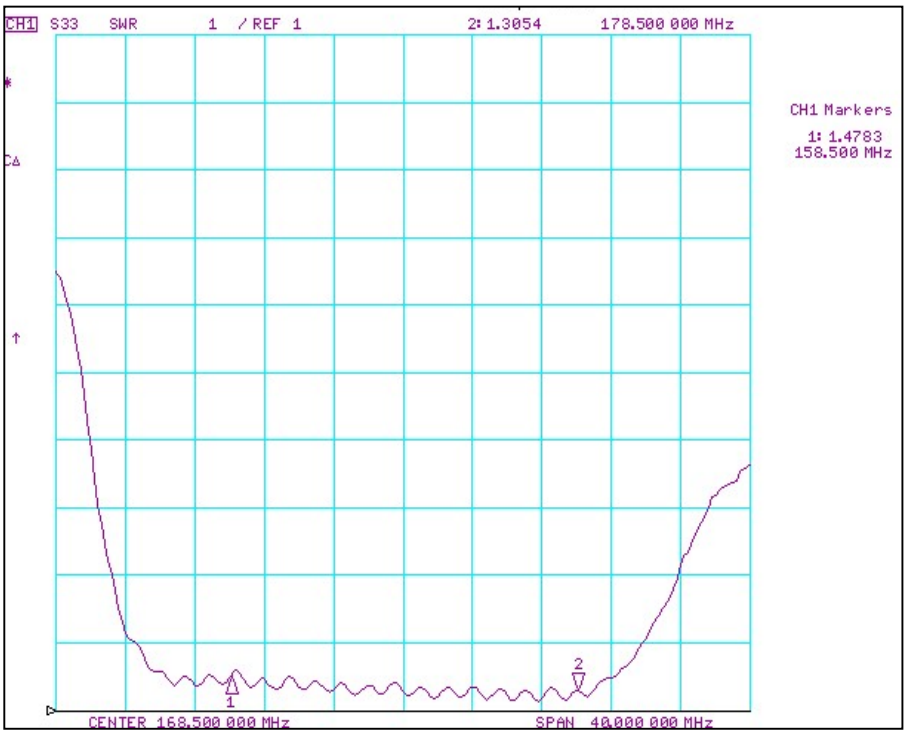


Fig. 4 Horizontal : 148.5MHz~188.5MHz

5. Output VSWR

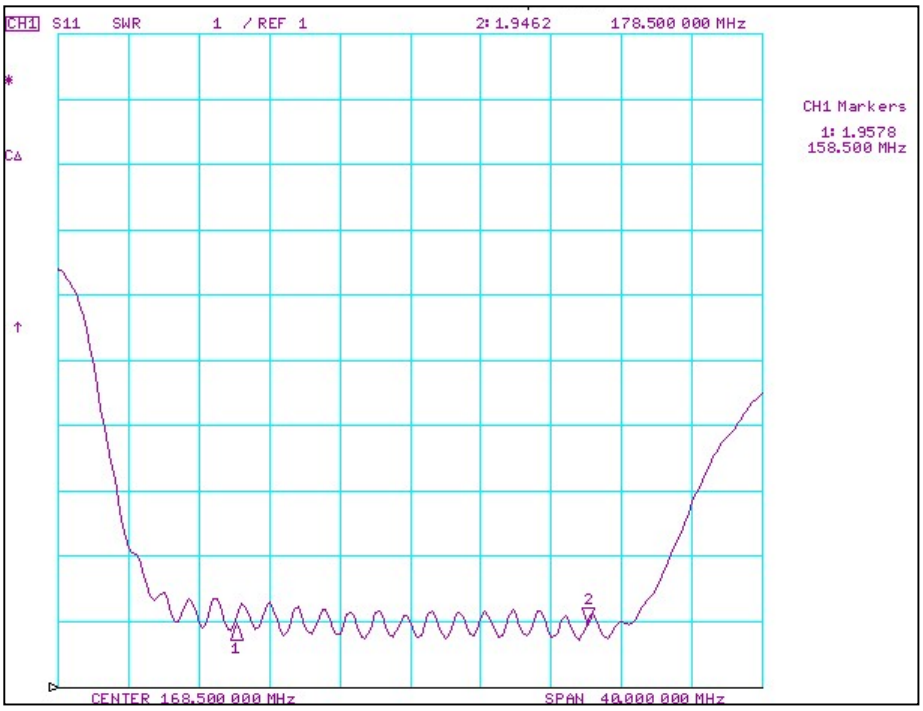
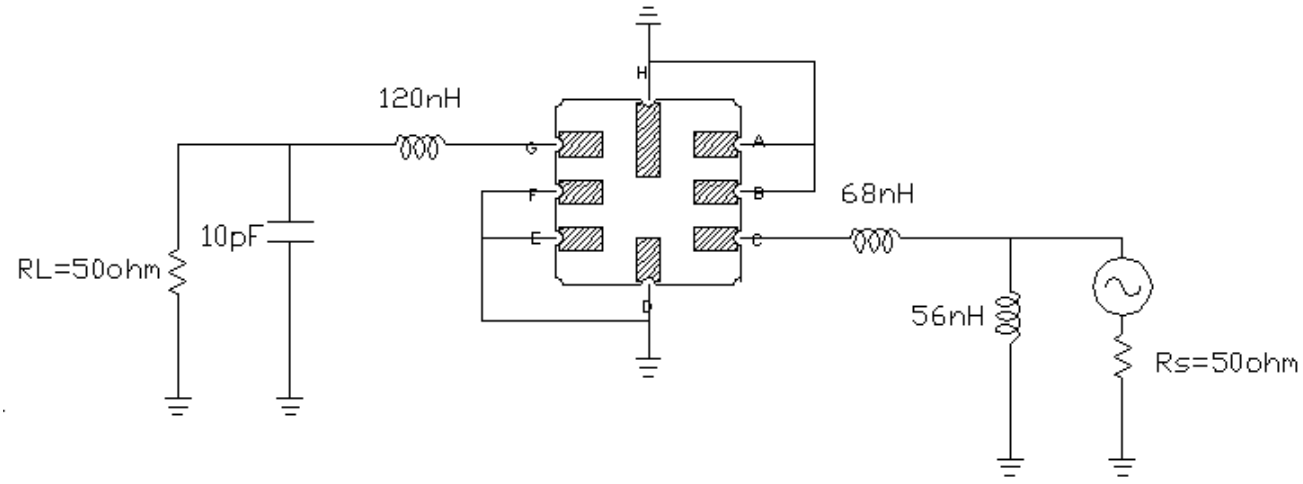
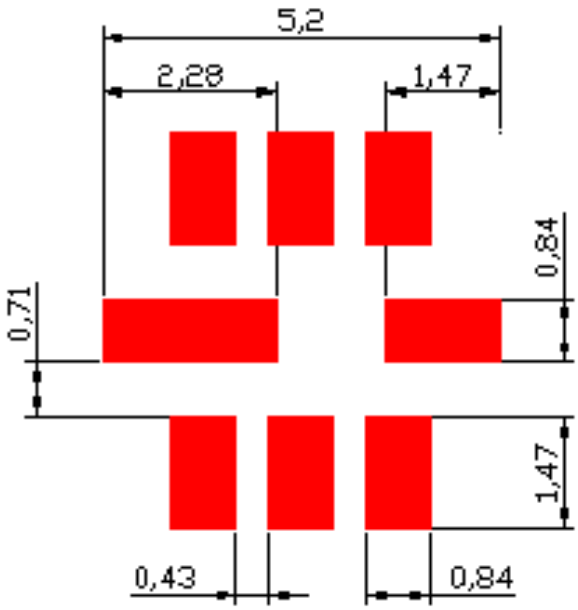


Fig. 5 Horizontal : 148.5MHz~188.5MHz

E. TEST FIXTURE :

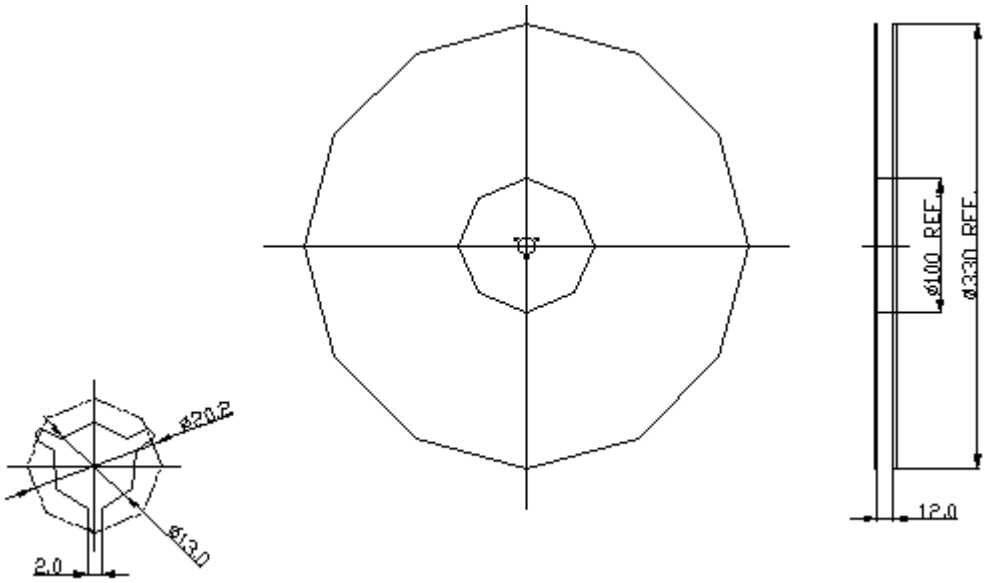


F. PCB Footprint

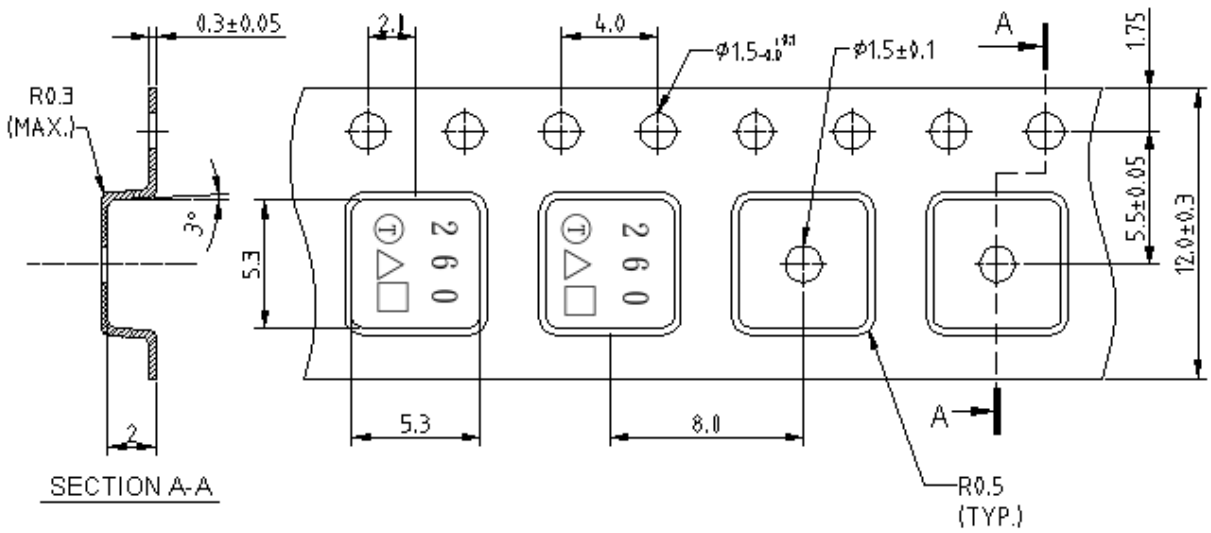


G. Package:

1. REEL DIMENSION



2. TAPE DIMENSION



H. Recommended Reflow Profile :

