



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date:

Product Name: SAW Filter 185.5MHz SMD 13.3x6.5mm

TST Parts No.:TB0572A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Andy Lee

Approval by:_____ Francis Chen

Date:_____ 2007/12/28



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SAW Filter 185.5 MHz SMD 13.3mmX6.5mm

MODEL NO.: TB0572A

REV. NO. 1

A. MAXIMUM RATING:

1. Operating Temperature: -40°C to +85°C
2. Storage Temperature: -40°C to +85°C
3. Maximum Input Power : 10dBm

RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

1. Ambient Temperature: 25 °

Item		Min.	Typical	Max.
Center frequency Fc	MHz	-	185.5	-
Insertion loss at Fc	dB	-	9.0	11.0
Bandwidth at -1.0dB	MHz	20.0	22.0	-
Amplitude Ripple (Fc ± 9.5 MHz)	dB	-	0.6	1.0
Group Delay Ripple (Fc ± 9.5 MHz)	nS	-	50	-
Attenuation (Reference level from minimum Insertion loss)				
100 MHz ~164.8 MHz	dB	40	51	-
164.8 MHz ~ 170.7 MHz	dB	25	44	-
201.3 MHz ~ 206.8 MHz	dB	25	39	-
206.8 MHz ~ 300 MHz	dB	38	46	-
Temp Coefficient	ppm/°C	-	-93	-

C. FREQUENCY CHARACTERISTICS :

1.S21 Response

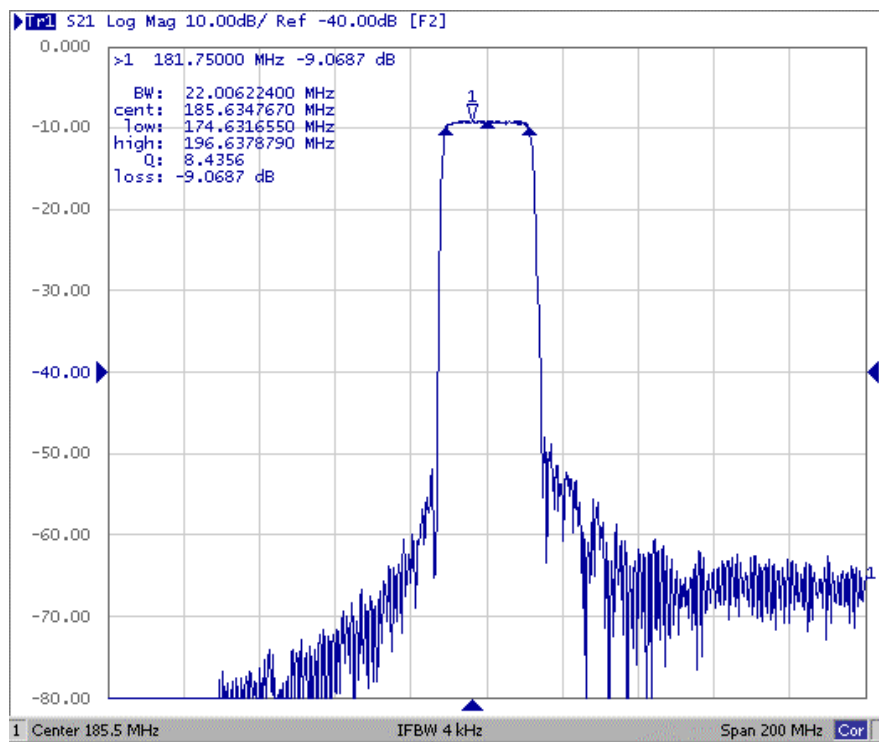


Fig1. Horizontal: 20MHz/Div Vertical: 10dB/Div

2. Passband Ripple

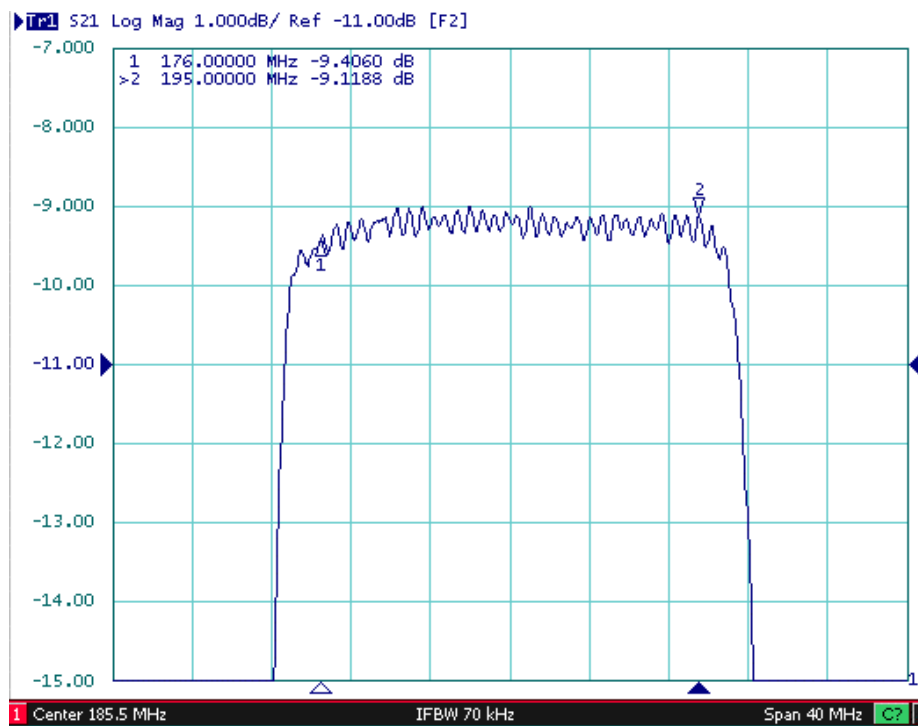


Fig2. Horizontal: 4MHz/Div Vertical: 1dB/Div

3. Group Delay Ripple

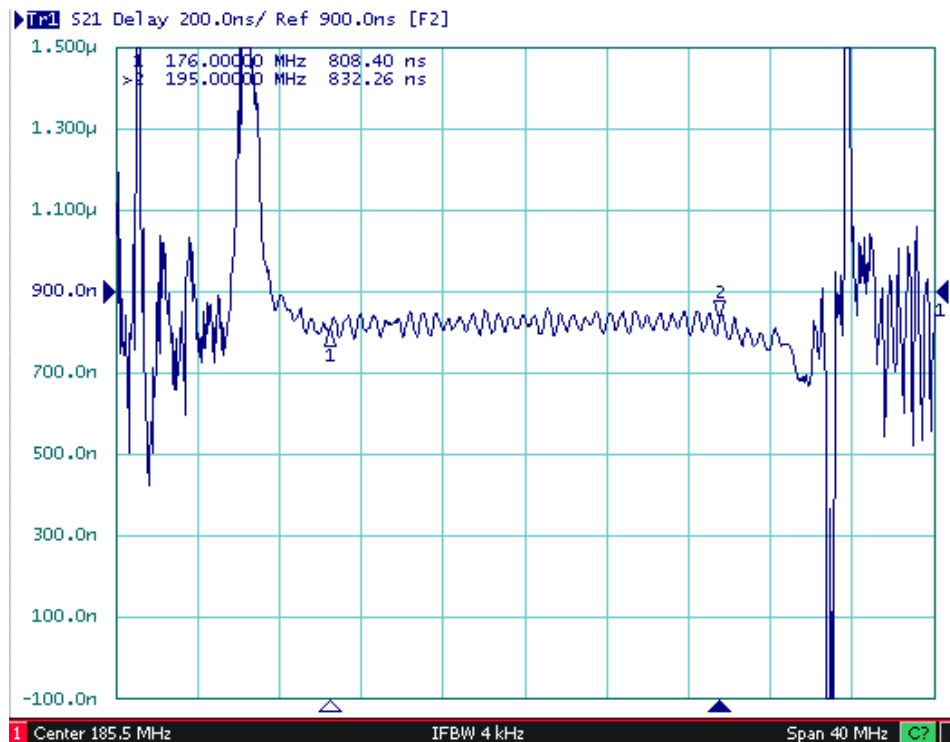
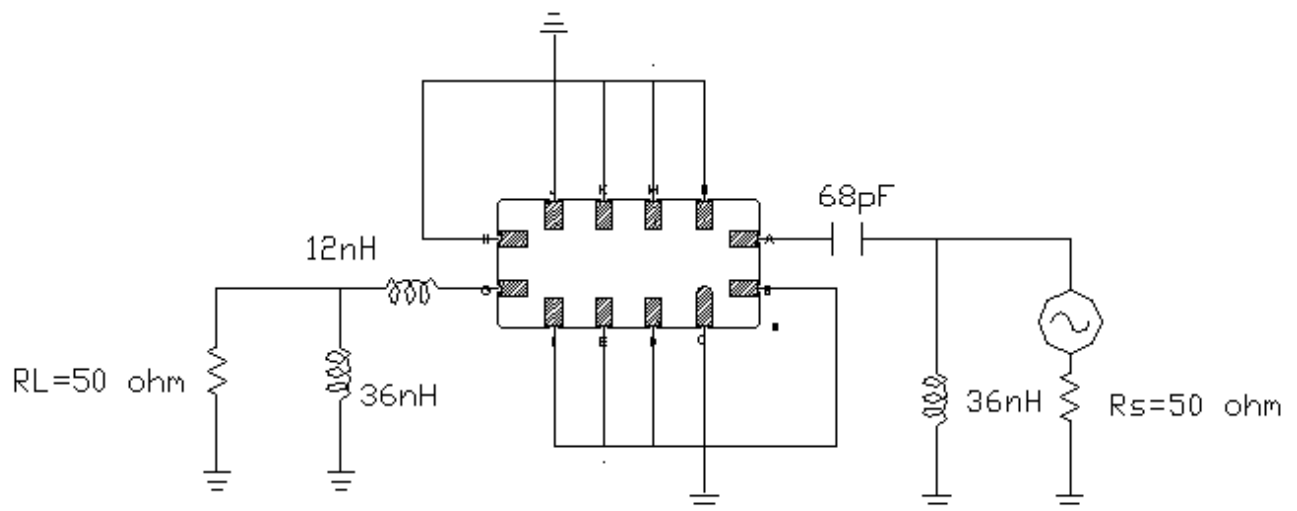


Fig3. Horizontal: 4MHz/Div Vertical: 200nS/Div

D. MEASUREMENT CIRCUIT

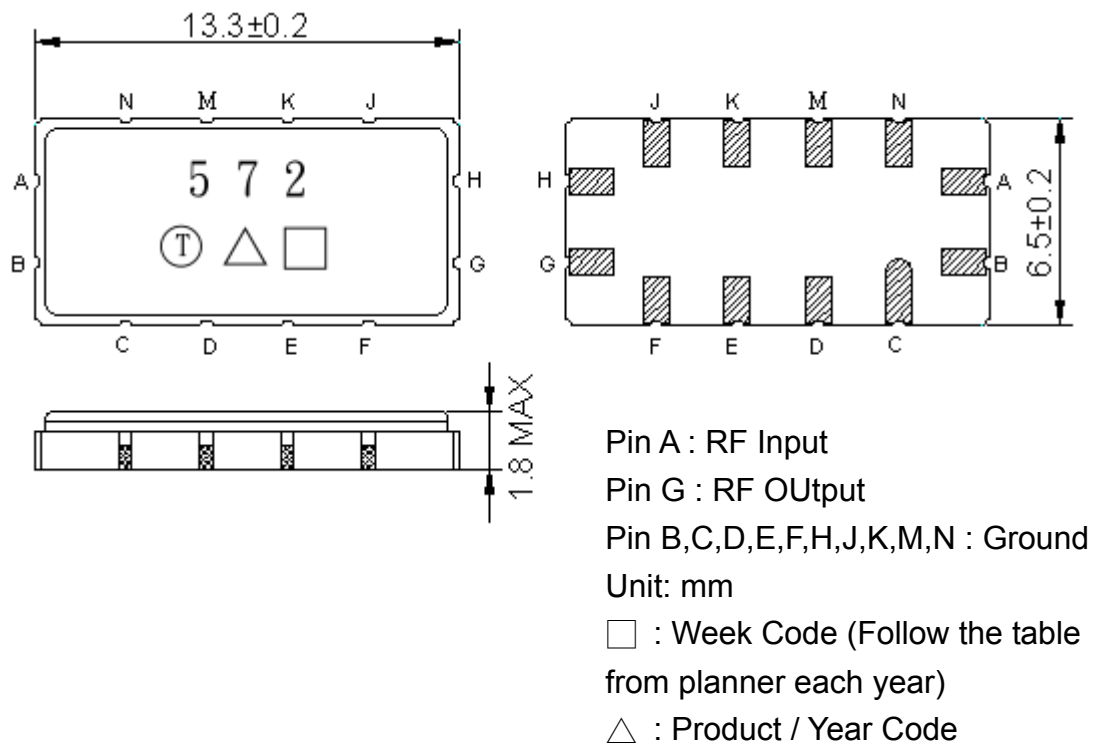
1. Single ended input 50 ohm to Single ended Output 50 ohm

:



Note: The matching structure will change according to different test fixture.

E.OUTLINE DRAWING:



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

Unit: mm

The graph illustrates the temperature profile over a 360-second period. The temperature starts at 25°C, rises sharply to 145°C by 40 seconds, then more gradually to a peak of 260°C at 220 seconds. After the peak, the temperature decreases to 145°C by 280 seconds and continues to drop to 110°C by 360 seconds.

Time (Sec)	Temp (Deg C)
0	25
20	28
40	145
60	150
80	155
100	160
120	170
140	175
160	195
180	215
200	250
220	260
240	245
260	175
280	145
300	145
320	135
340	120
360	110