



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: ttsales@mail.taisaw.com Web: www.taisaw.com

Approval Sheet For Product Specification

Issued Date:

Product Name: SAW Filter 512.2MHz SMD 7.0x5.0mm

TST Parts No.:TB0577A

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 512.2 MHz SMD 7.0mmX5.0mm

MODEL NO.: TB0577A

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	-	512.2	-
Insertion loss at Fc	dB	-	11.8	13.5
Bandwidth at -1.0dB	MHz	27.0	30.0	-
Amplitude Ripple (Fc ± 11.5 MHz)	dB	-	0.6	1.0
Group Delay Ripple (Fc ± 11.5 MHz)	nS	-	30	-
Attenuation (Reference level from minimum Insertion loss)				
300 MHz ~ 487.5MHz	dB	40	48	-
540 MHz ~ 650 MHz	dB	36	42	-
Temp Coefficient	ppm/°C	-	-93	-

D. FREQUENCY CHARACTERISTICS :

1.S21 Response

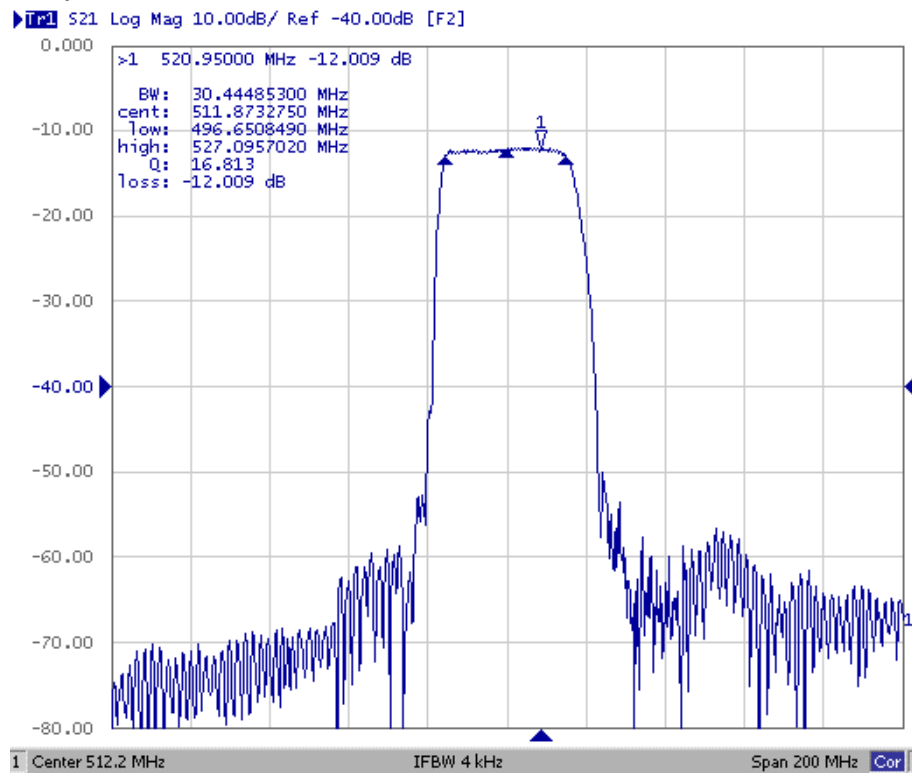


Fig1. Horizontal: 20MHz/Div Vertical: 10dB/Div

2. Passband Ripple

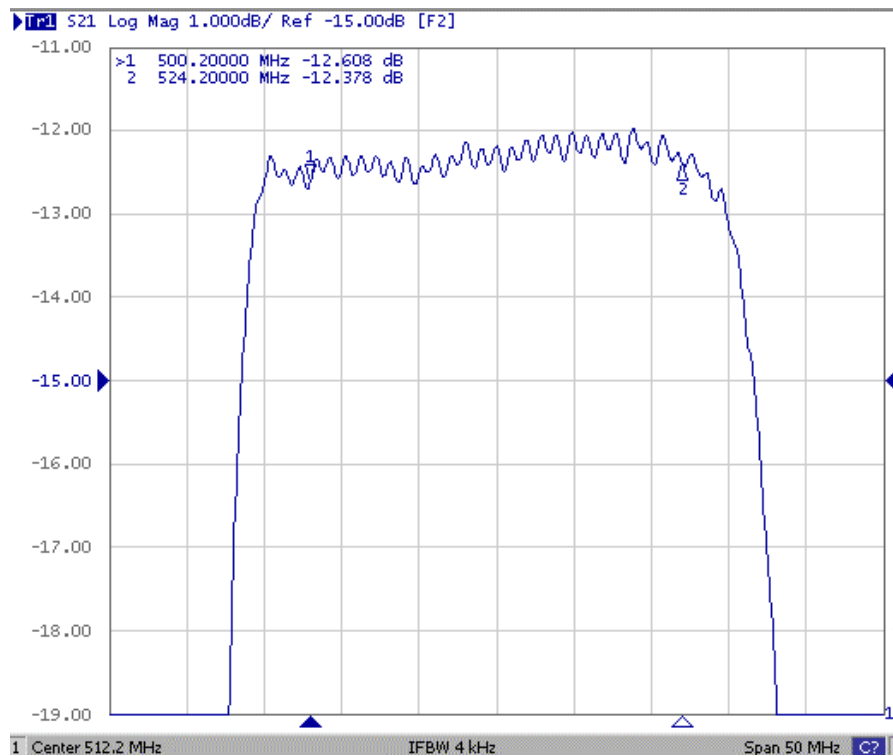


Fig2. Horizontal: 5MHz/Div Vertical: 1dB/Div

3. Group Delay Ripple

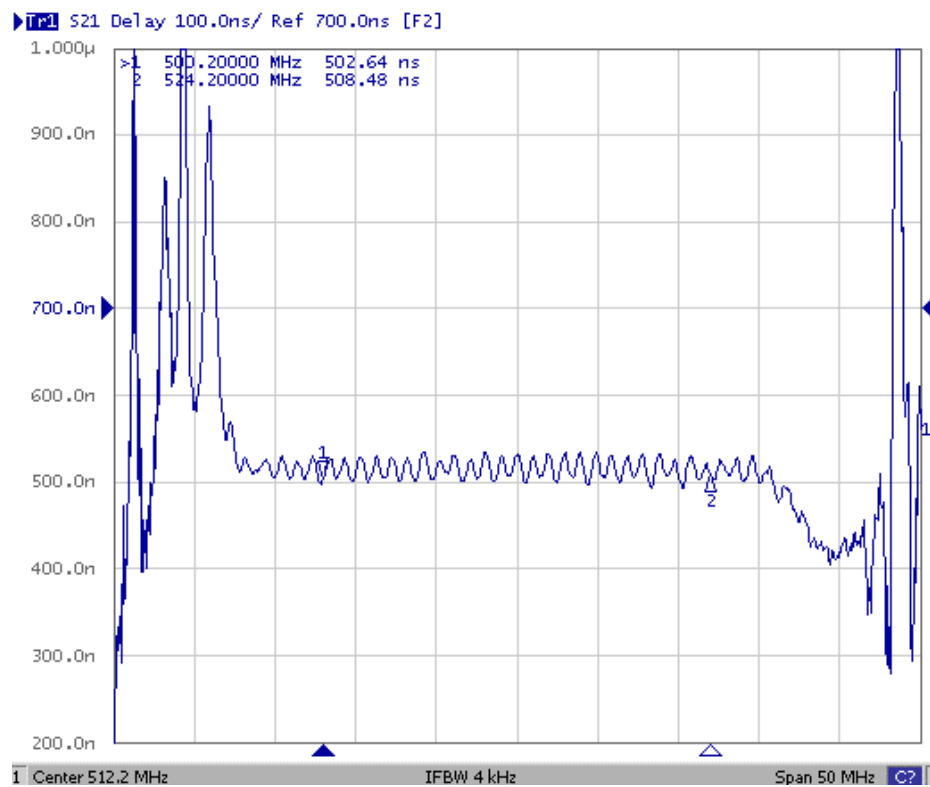
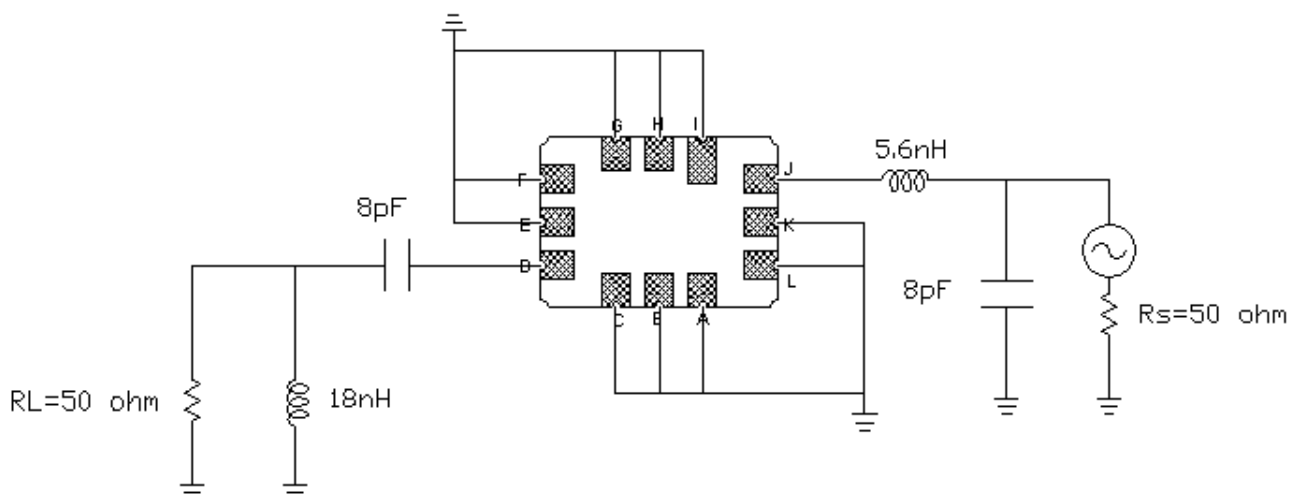


Fig3. Horizontal: 5MHz/Div Vertical: 100nS/Div

E. MEASUREMENT CIRCUIT

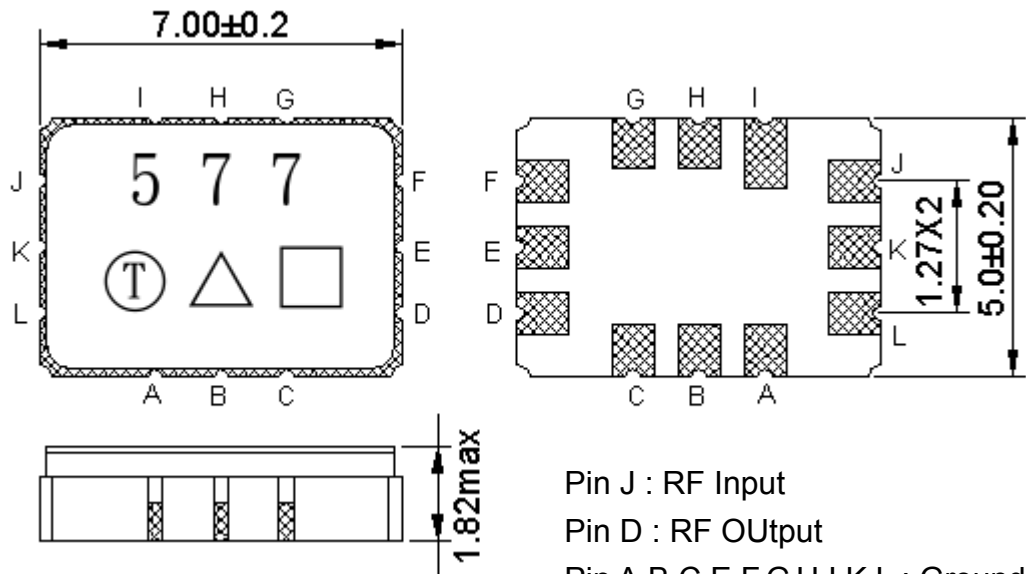
1. Single ended input 50 ohm to Single ended Output 50 ohm

:



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

F.OUTLINE DRAWING:



Pin J : RF Input

Pin D : RF Output

Pin A,B,C,E,F,G,H,I,K,L : Ground

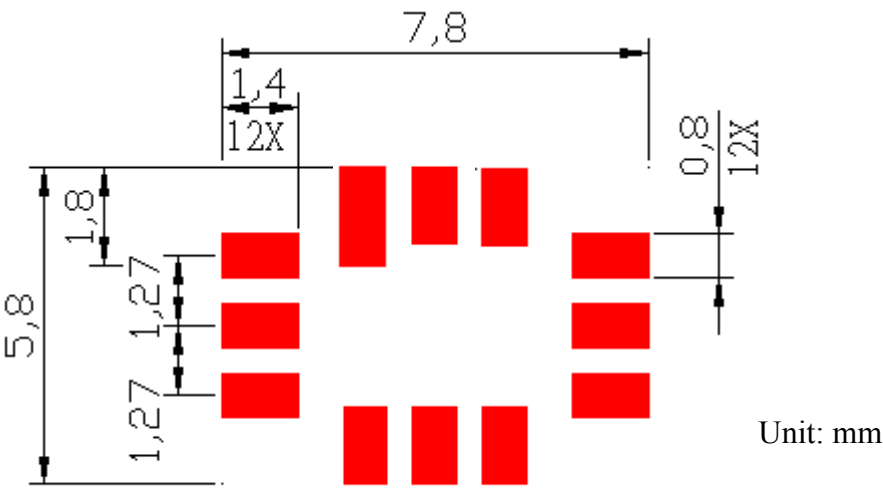
Unit: mm

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

△ : Product / Year Code

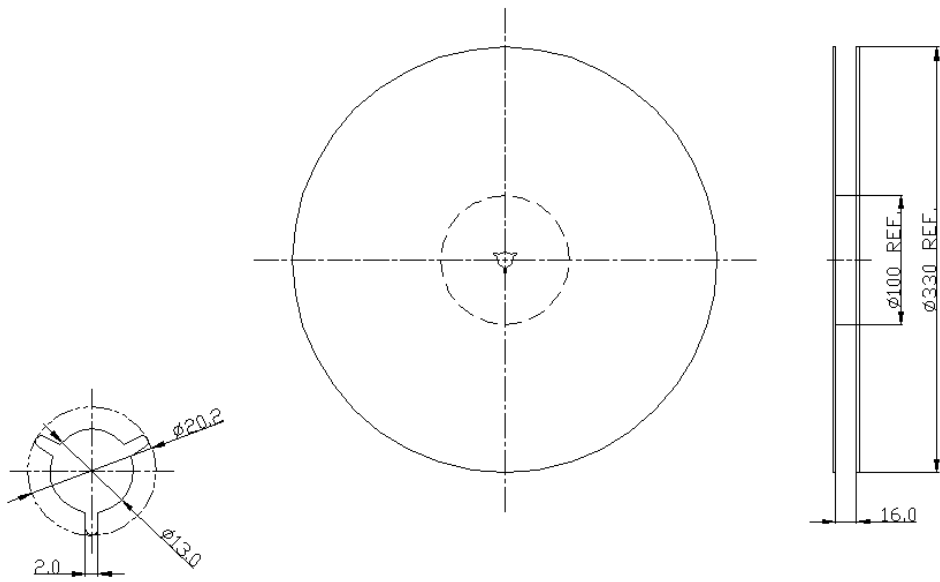
Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	<u>B</u>	<u>b</u>

G. PCB Footprint



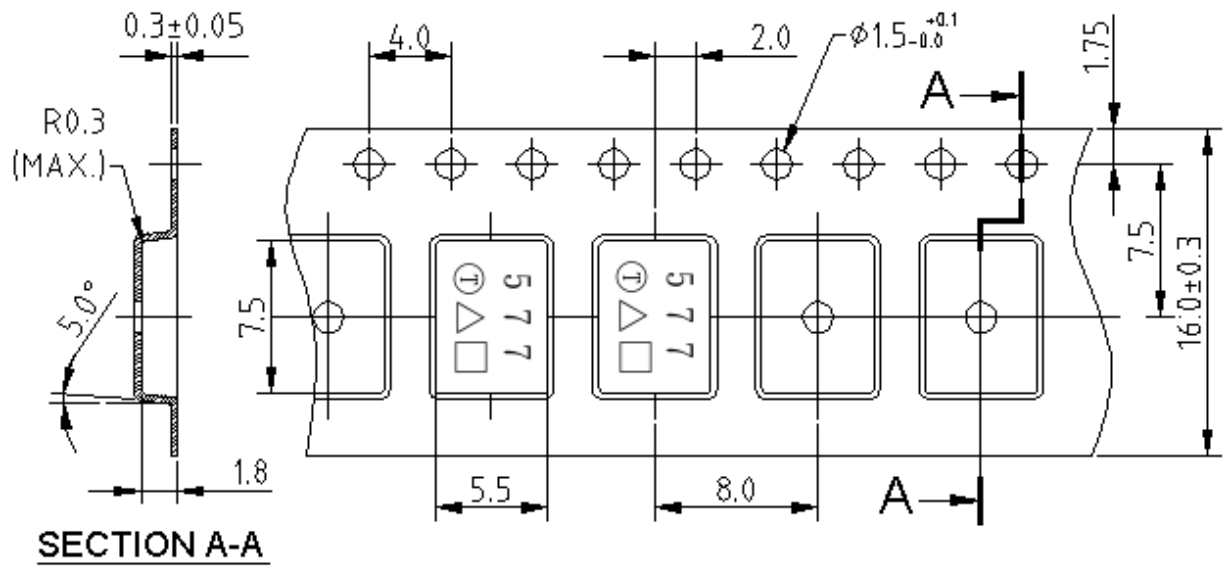
H. PACKING:

1. REEL DIMENSION



Unit: mm

2. TAPE DIMENSION



Unit: mm

I. RECOMMENDED REFLOW PROFILE_:

