



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: Aug, 21, 2008

Product Name: SAW Filter 1178.12 MHz SMD 3.0X3.0 mm

TST Parts No.: TA0844A

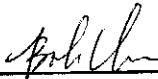
Customer Parts No.: _____

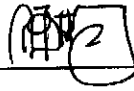
Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Bob Chau 

Approval by: _____ Francis Chen 

Date: _____ 8,21, 2008



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: Aug, 21, 2008

Product Name: SAW Filter 1178.12 MHz SMD 3.0X3.0 mm

TST Parts No.: TA0844A

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Bob Chau

Approval by: _____ Francis Chen

Date: _____ 8,21, 2008



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

SAW Filter 1178.12 MHz

MODEL NO.:TA0844A

REV. NO.:2

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -50°C to +95°C

RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance (differential) : $Z_s = 150 \ \Omega \ // \ 27 \text{ nH}$

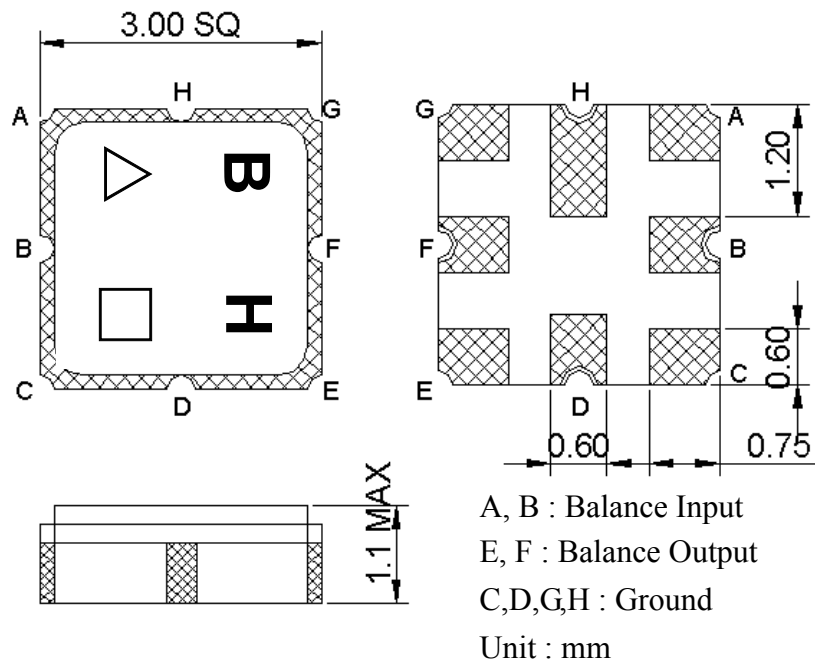
Terminating load impedance (differential) : $Z_L = 150 \ \Omega \ // \ 27 \text{ nH}$

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	1178.12	-	-
Bandwidth at -2 dB	MHz	40	55	-	-
Insertion Loss in 1158.12~1198.12 MHz	dB	-	2.5	5	-
Amplitude ripple (1158.12 MHz ~ 1198.12 MHz)	dB	-	0.9	2	-
Phase error (1158.12 MHz ~ 1198.12 MHz) (3)	deg	-	3	5.5	-
I/O VSWR (1158.12 MHz ~ 1198.12 MHz)		-	1.7	2.5	-
Attenuation (1)					
50 ~ 1096.06 MHz	dB	42	55	-	-
1260.18 ~ 2000 MHz	dB	42	50	-	-
2000 ~ 3500 MHz	dB	35	44	-	-
3500 ~ 6000 MHz	dB	22	26	-	-

Notes :

- (1) The amplitude reference is insertion loss at Fc.
- (2) The amplitude ripple is defined as the max. level – min. level over any 30 MHz block of the given bandwidth.
- (3) The phase error is measured over any 30 MHz block of the given bandwidth.

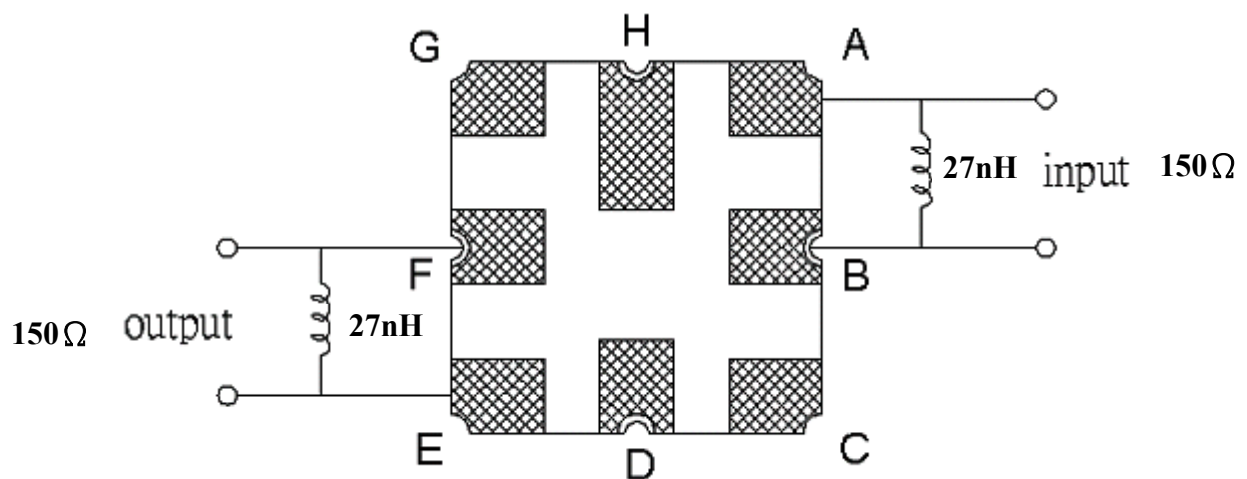
C.OUTLINE DRAWING:



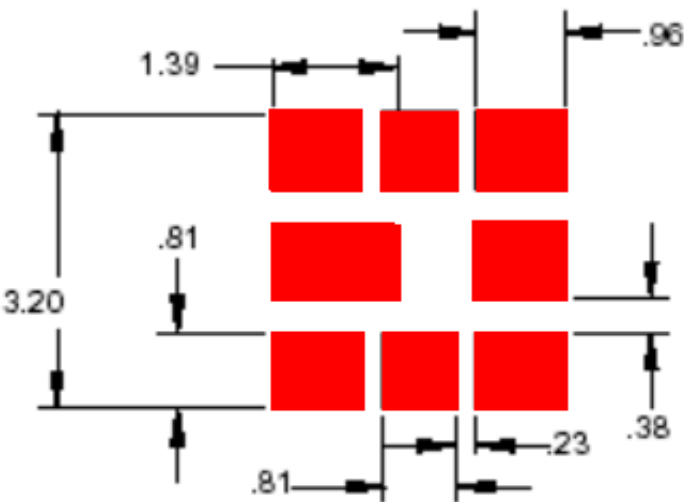
△ : Year Code (2006->6, ..., 2009->9)

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

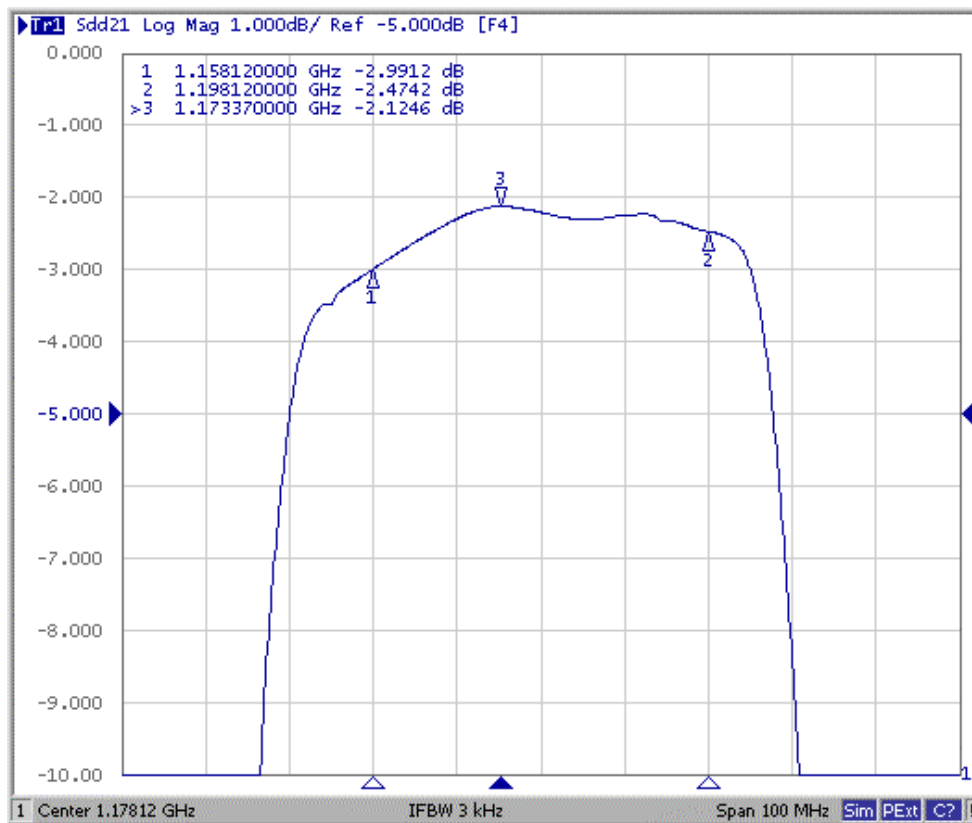
D. MEASUREMENT CIRCUIT:

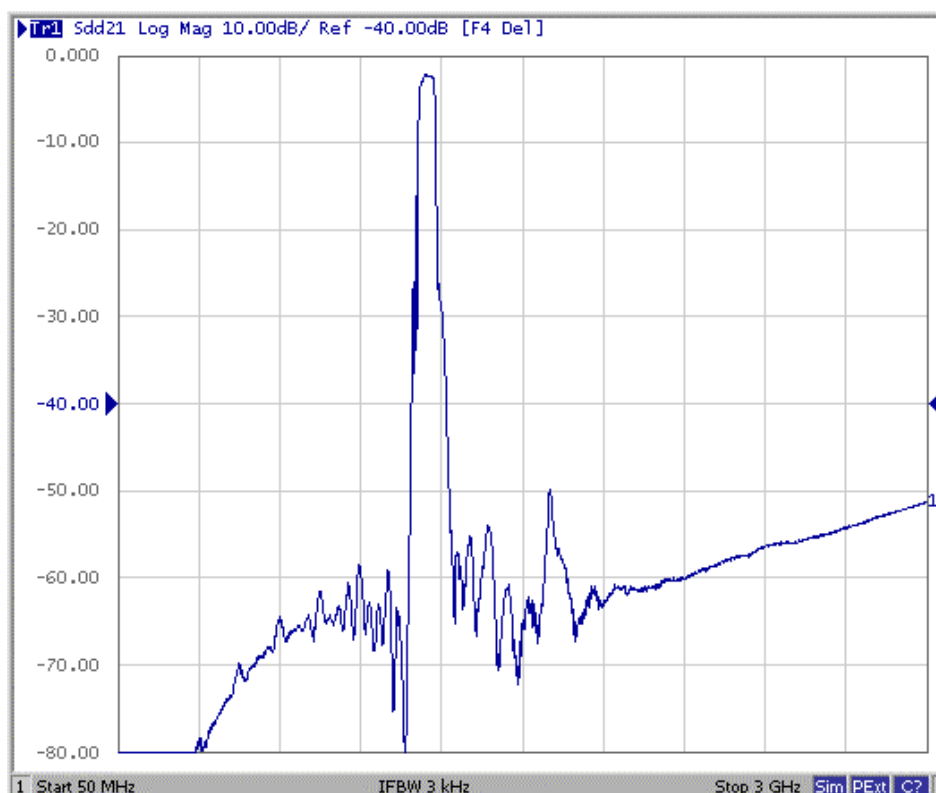


E. PCB Footprint:



F. Frequency Characteristics :

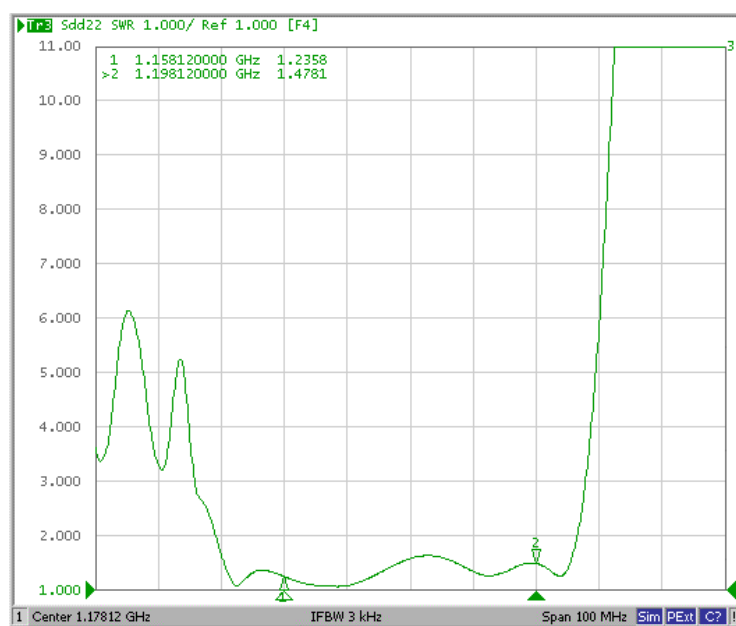
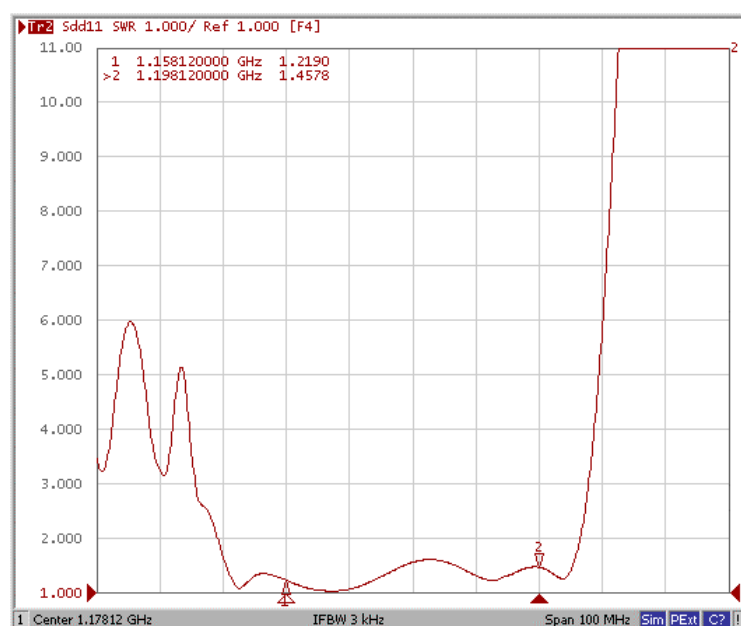




Reflection Functions :

S11

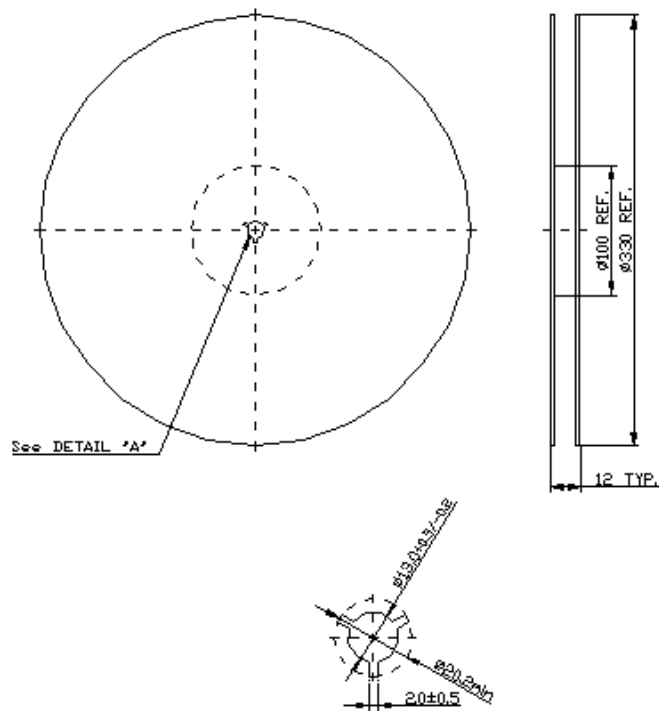
S22



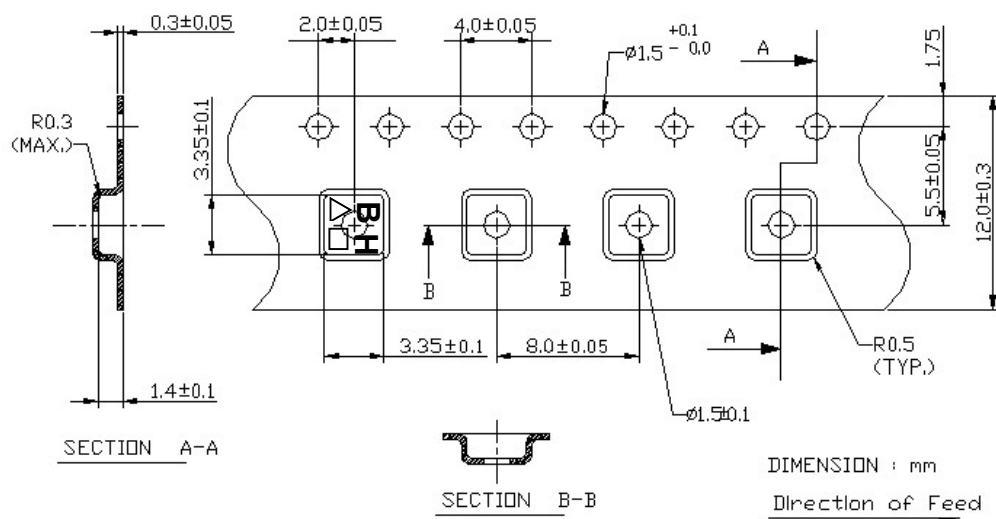
G. PACKING:

1. REEL DIMENSION

(Reel Count : 7''=1000 ; 13''=3000)



2.TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

