



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date: Feb, 14, 2007

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

TST Parts No.: TA0730A

Customer Parts No.: _____

Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Bob Chau

Approval by: _____ Francis Chen

Date: _____ 2, 14, 2008



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SAW Filter 1178.12 MHz

MODEL NO.:TA0730A

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) : $Z_s = 150 \Omega // 33 \text{ nH}$

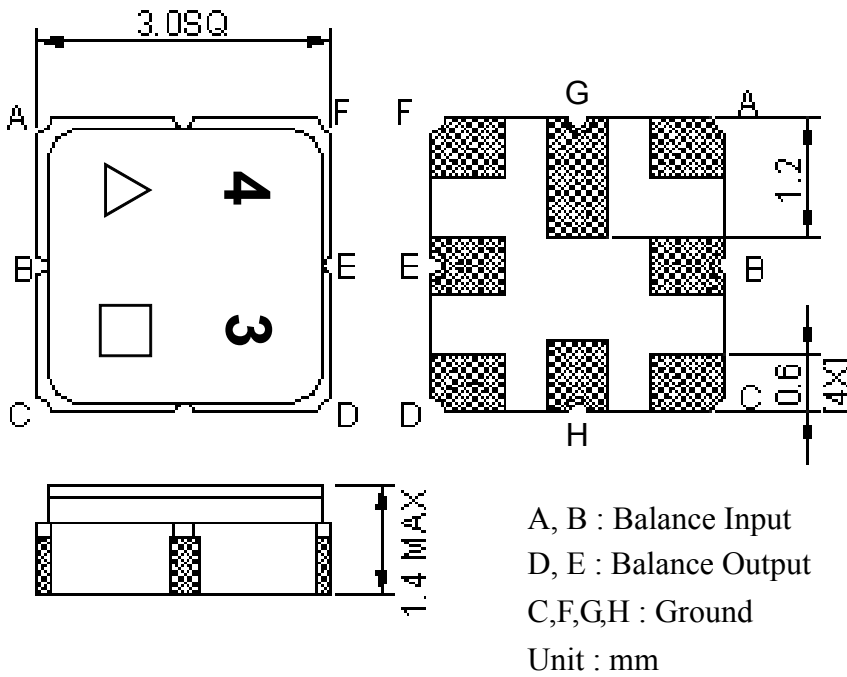
Terminating load impedance (differential) : $Z_L = 150 \Omega // 33 \text{ nH}$

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	1178.12	-	-
Bandwidth at -2.5 dB	MHz	40	52	-	-
Insertion Loss in 1158.12~1198.12 MHz	dB	-	2.4	5	-
Amplitude ripple (1158.12 MHz ~ 1198.12 MHz)	dB	-	0.7	2	-
Phase error (1158.12 MHz ~ 1198.12 MHz) (3)	deg	-	5	6.5	-
I/O VSWR (1158.12 MHz ~ 1198.12 MHz)		-	1.8	2.5	-
Attenuation (1)					
50 ~ 1096.06 MHz	dB	46	52	-	-
1260.18 ~ 2000 MHz	dB	46	55	-	-
2000 ~ 4250 MHz	dB	35	40	-	-
4250 ~ 6000 MHz	dB	30	40	-	-

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.

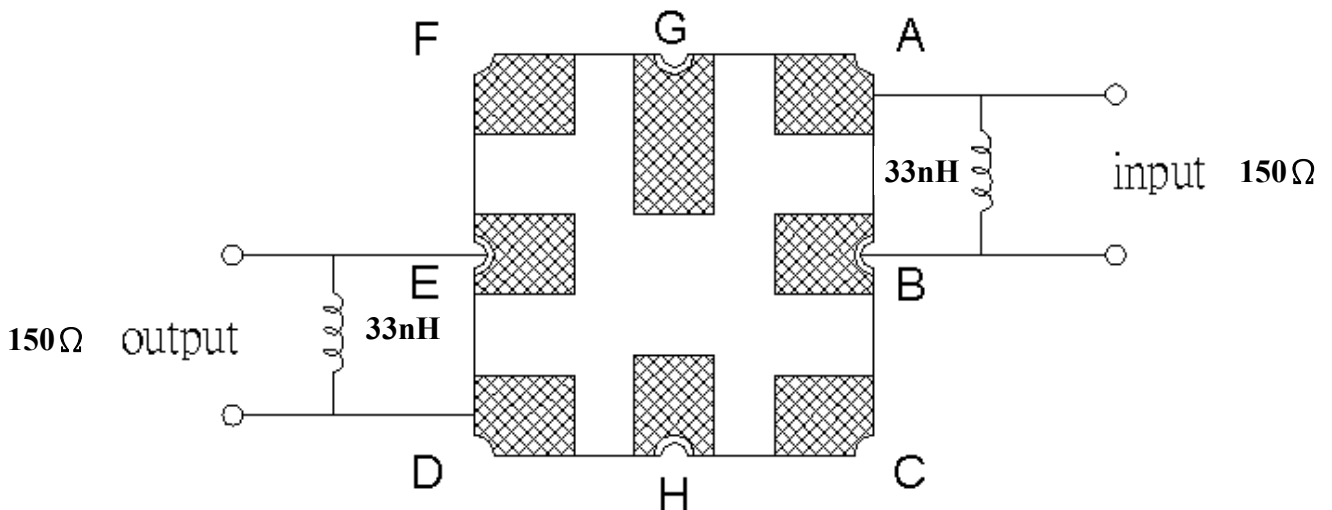
C.OUTLINE DRAWING:



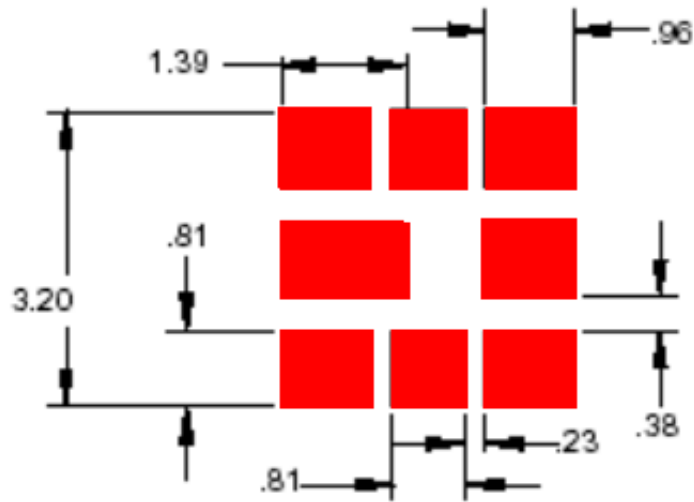
△ : Year Code (2006->6, ..., 2009->9)

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

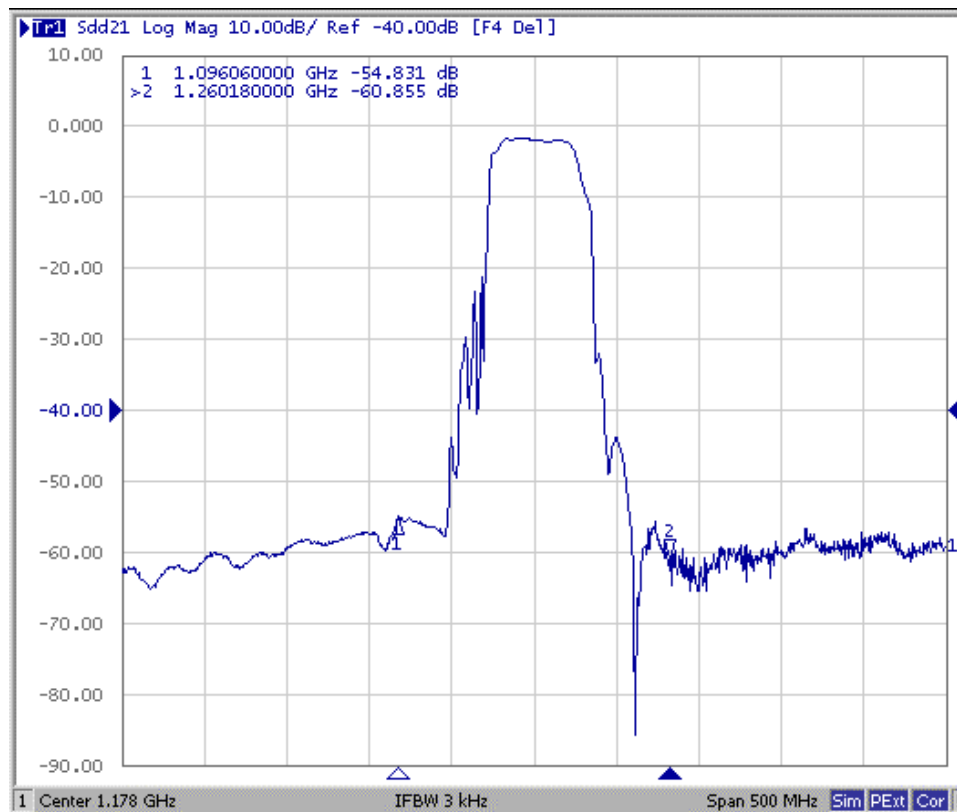
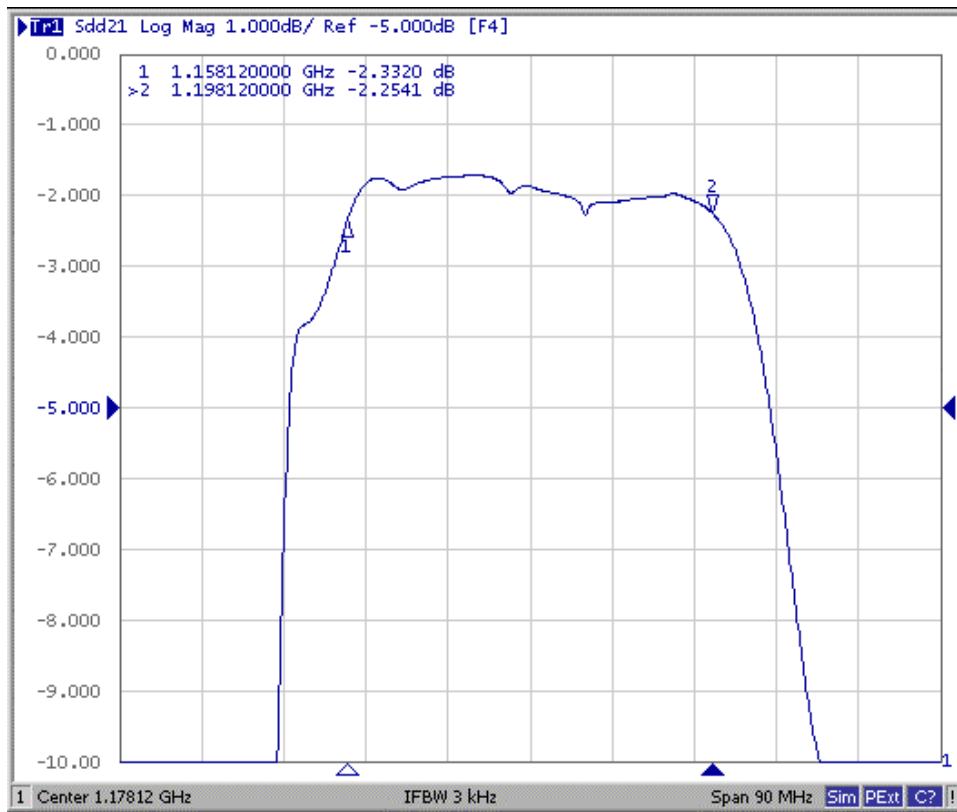
D. MEASUREMENT CIRCUIT:

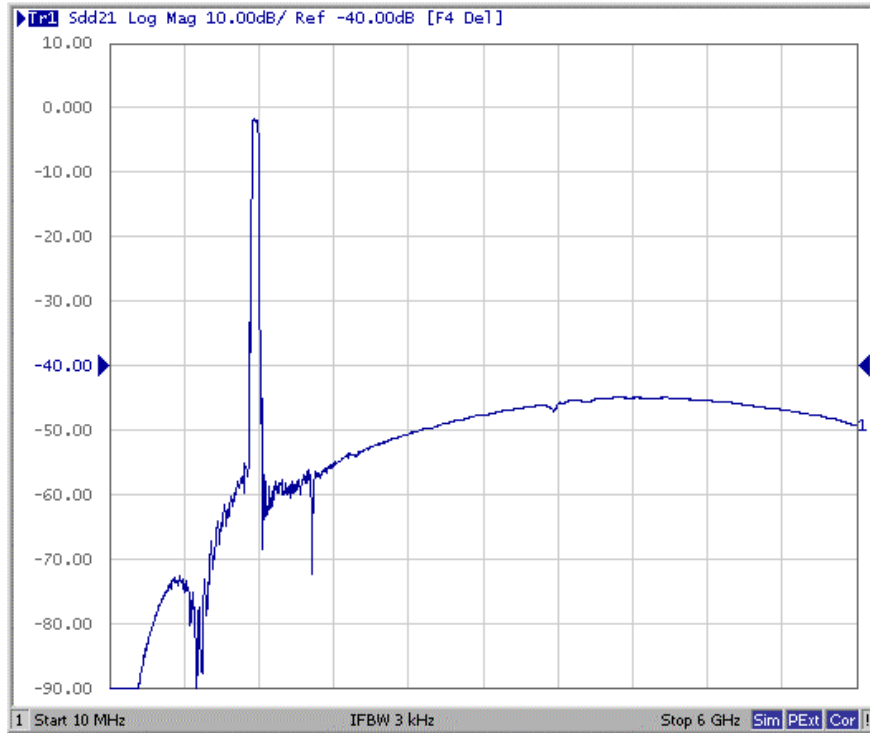


E. PCB Footprint:



F. Frequency Characteristics :

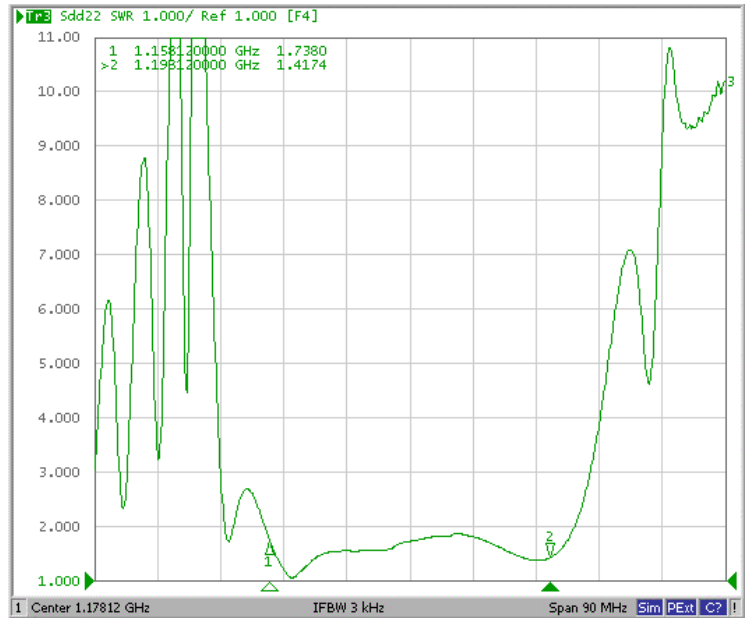
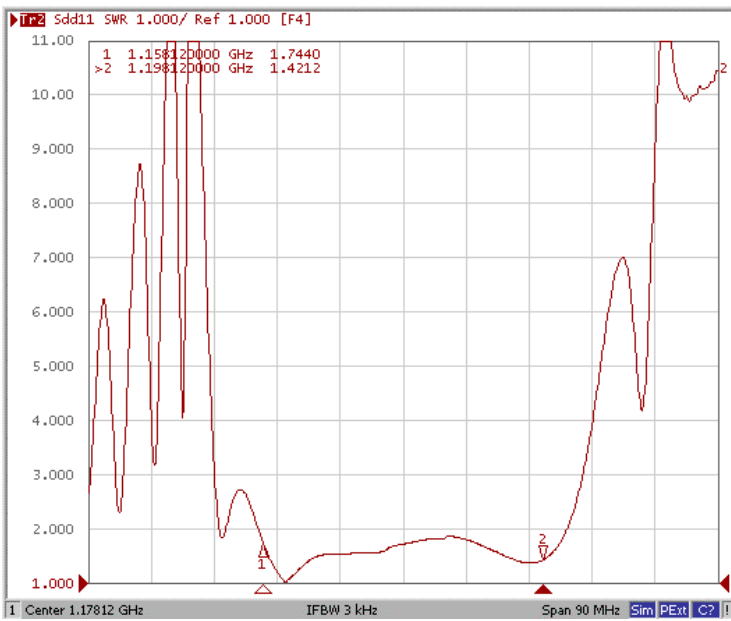




Reflection Functions :

S11

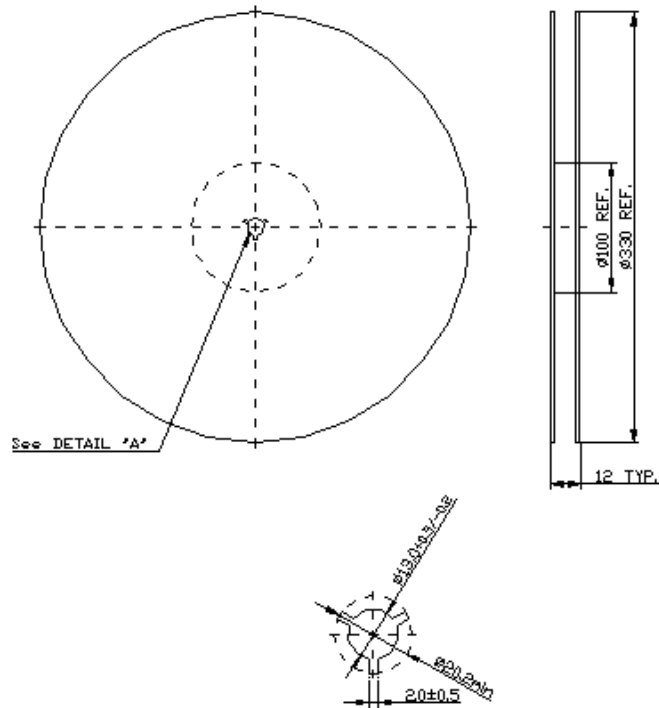
S22



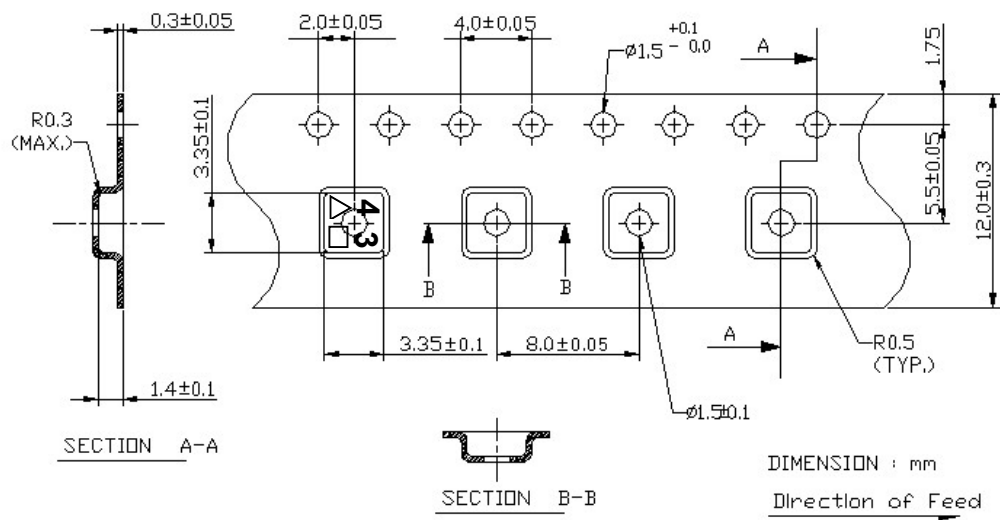
G. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

