



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date: Sep, 7, 2007

Product Name: SAW Filter 1994.6 MHz SMD 3.0X3.0 mm

TST Parts No.: TA0738A

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Bob Chau

Approval by: _____ Francis Chen

Date: _____ 9, 7, 2007



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SAW Filter 1994.6 MHz

MODEL NO.:TA0738A

REV. NO.:1

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) : $Z_s = 150 \ \Omega \ // \ 33 \ nH$

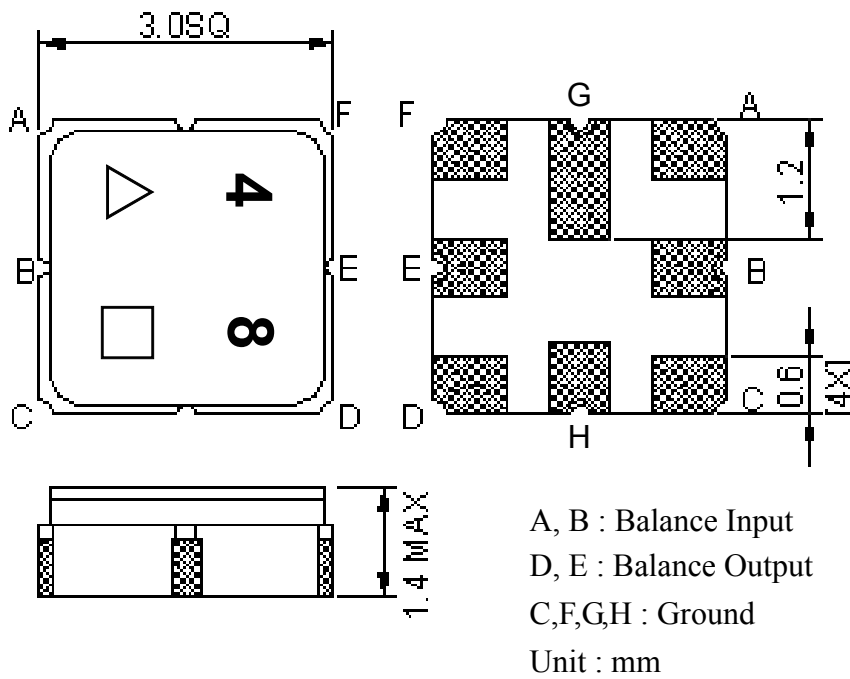
Terminating load impedance (differential) : $Z_L = 150 \ \Omega \ // \ 33 \ nH$

Item	Unit	Min.	Type.	Max.	Note
Center Frequency Fc	MHz	-	1994.6	-	-
Bandwidth at -2 dB	MHz	40	71	-	-
Insertion Loss in 1974.6~2014.6 MHz	dB	-	2.7	5	-
Amplitude ripple (1974.6 MHz ~ 2014.6 MHz)	dB	-	0.7	2	-
Phase error (1974.6 MHz ~ 2014.6 MHz) (3)	deg	-	2.7	5	-
Group Delay ripple(1974.6 MHz ~ 2014.6 MHz)	ns	-	5	25	-
I/O VSWR (1974.6 MHz ~ 2014.6 MHz)		-	1.3	2.5	-
Attenuation (1)					
50 ~ 1912.5 MHz	dB	44	49	-	-
2076.7 ~ 2150 MHz	dB	44	49	-	-
2150 ~ 4250 MHz	dB	38	44	-	-
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.

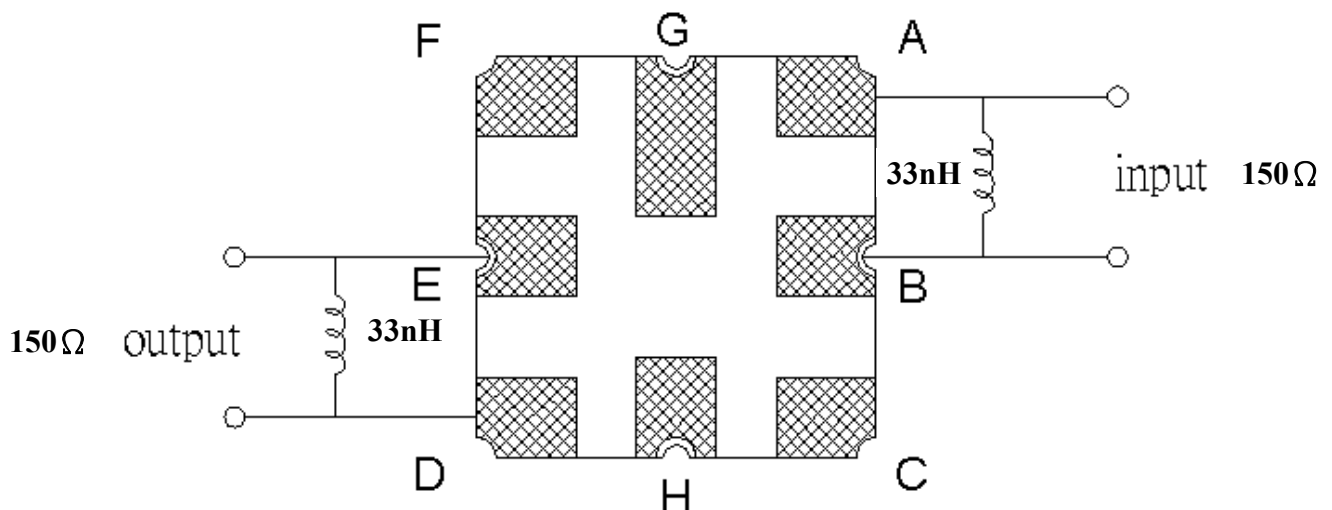
C.OUTLINE DRAWING:



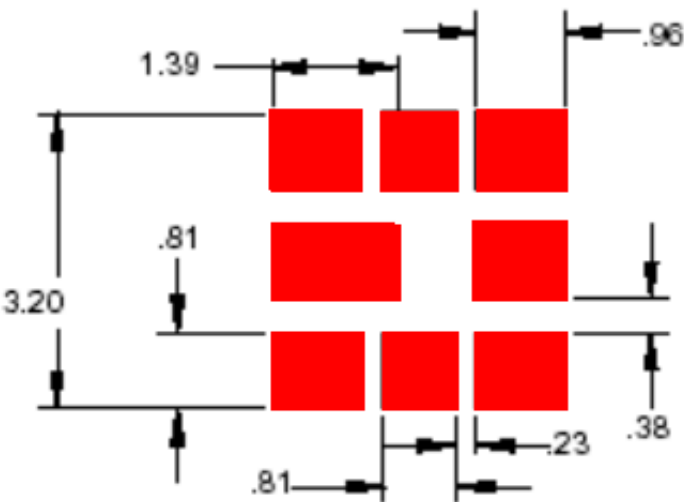
△ : Year Code (2006->6, ..., 2009->9)

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

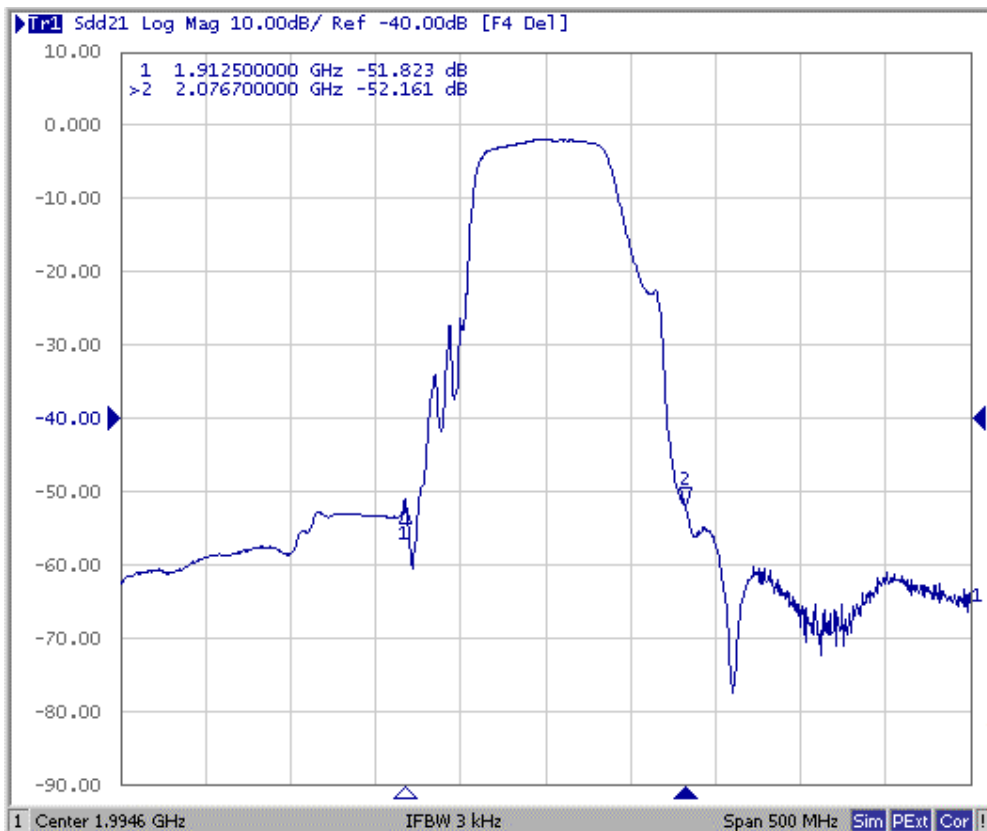
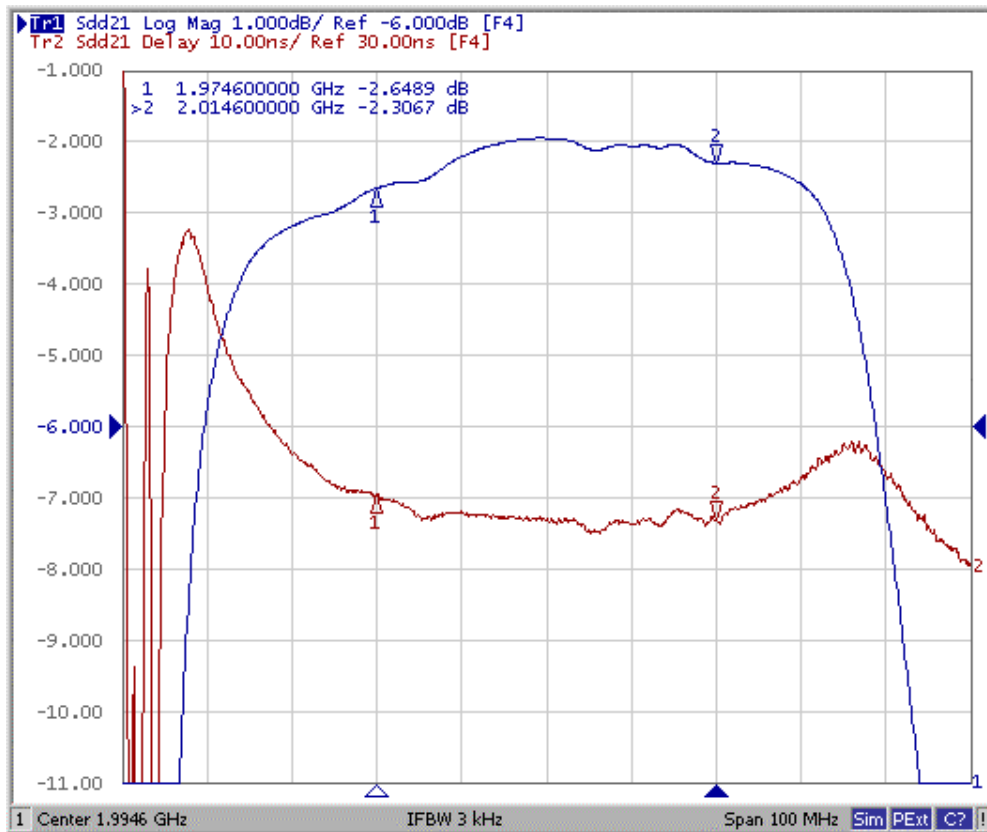
D. MEASUREMENT CIRCUIT:

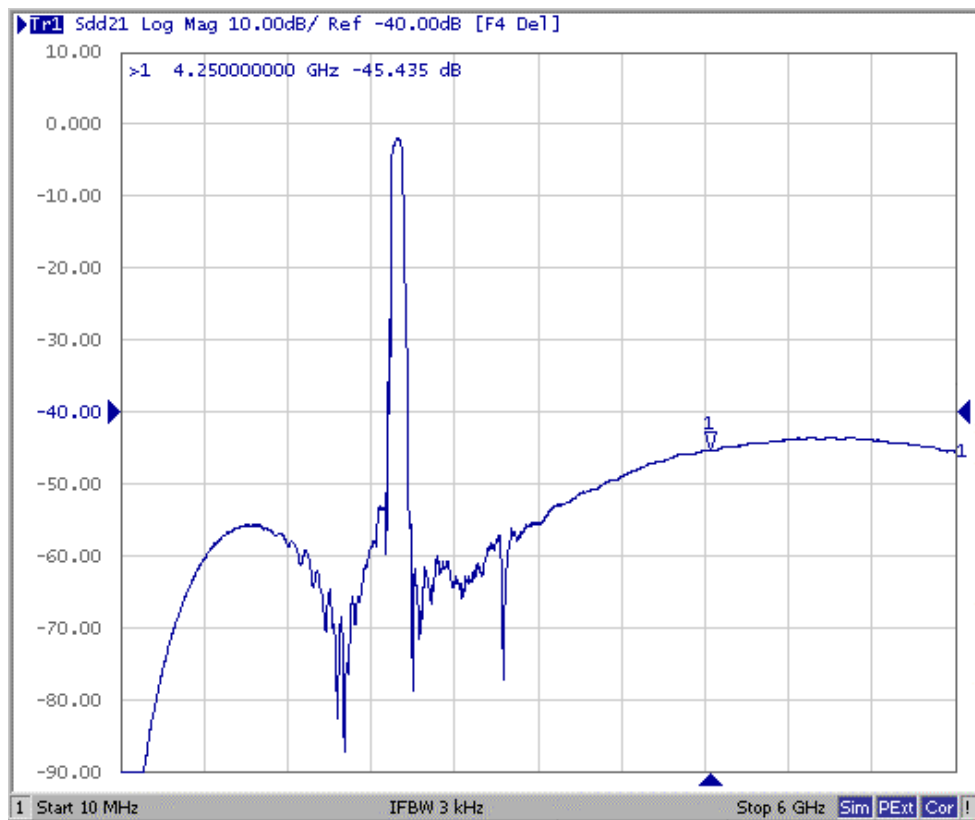


E. PCB Footprint:



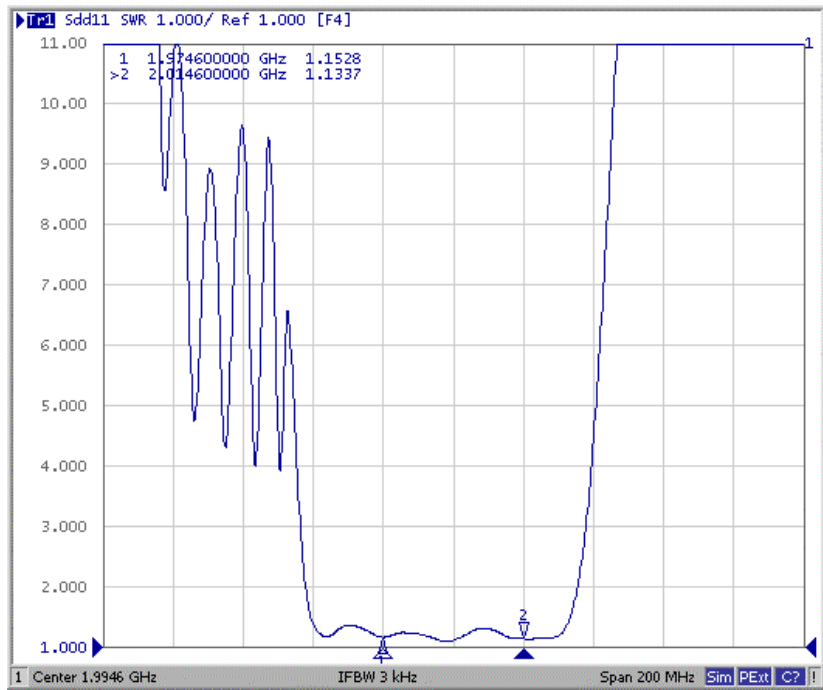
F. Frequency Characteristics :



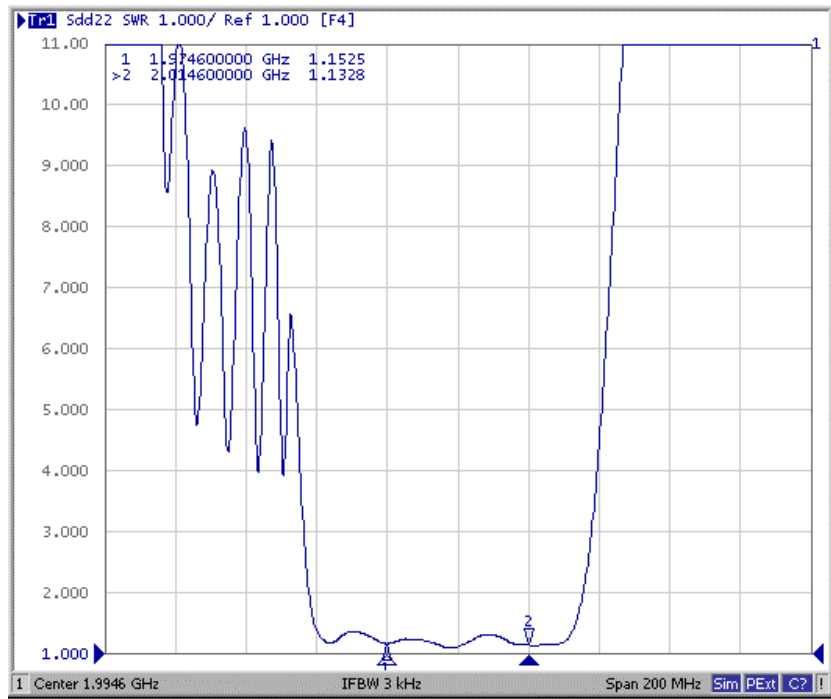


Reflection Functions :

S11



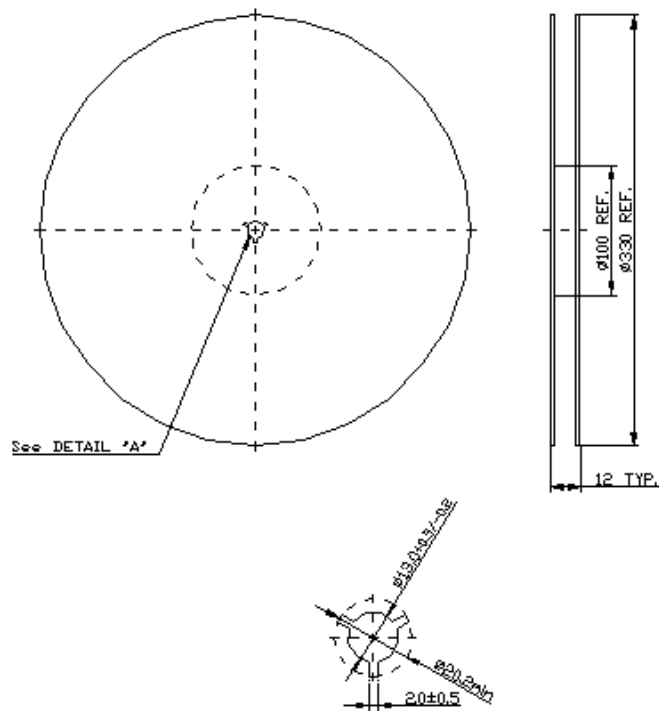
S22



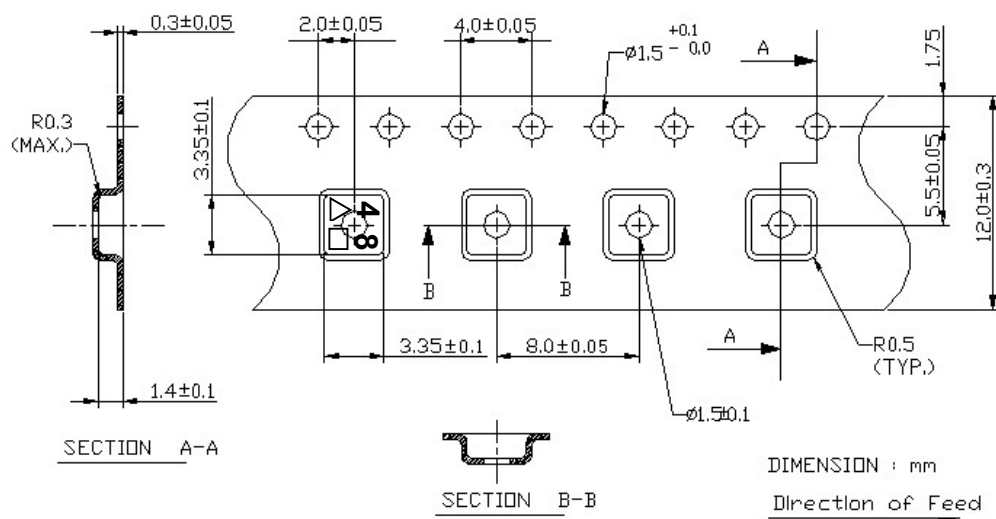
G. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

