



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date: Aug, 14, 2008

Product Name: SAW Filter 1680 MHz SMD 3.0X3.0 mm

TST Parts No.: TA0891A

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Bob Chau *Bob Chau*

Approval by: _____ Francis Chen *Francis Chen* 08/14/2008

Date: _____ 8, 14, 2008



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SAW Filter 1680 MHz

MODEL NO.:TA0891A

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) : $Z_s = 150 \ \Omega \ // \ 15 \text{ nH}$

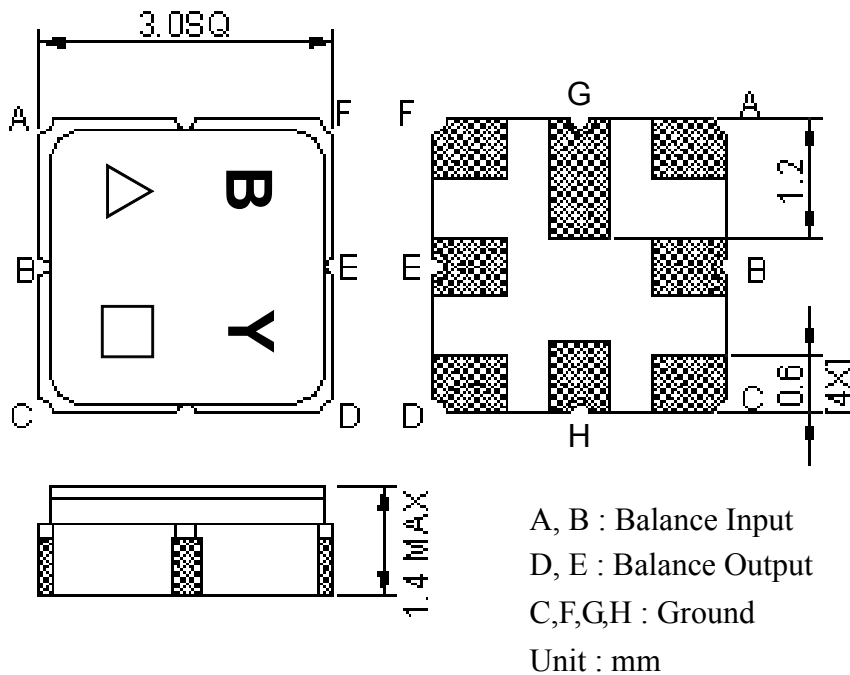
Terminating load impedance (differential) : $Z_L = 150 \ \Omega \ // \ 15 \text{ nH}$

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	1680	-	-
Bandwidth at -2 dB	MHz	60	76	-	-
Insertion Loss in 1650~1710 MHz	dB	-	3.7	5	-
Amplitude ripple (1650 MHz ~ 1710 MHz)	dB	-	1.2	2	-
Phase error (1650 MHz ~ 1710 MHz) (3)	deg	-	2	5	-
I/O VSWR (1650 MHz ~ 1710 MHz)		-	1.5	2.5	-
CMDR (1650 MHz ~ 1710 MHz)	dB	25	30	-	-
Attenuation (1)					
50 ~ 1580 MHz	dB	44	55	-	-
1800 ~ 3000 MHz	dB	44	50	-	-
3000 ~ 4000 MHz	dB	35	40	-	-
4000 ~ 6000 MHz	dB	18	23	-	-

Notes :

- (1) The amplitude reference is insertion loss at Fc.
- (2) The amplitude ripple is defined as the max. level – min. level over any 36 MHz block of the given bandwidth.
- (3) The phase error is measured over any 36 MHz block of the given bandwidth.

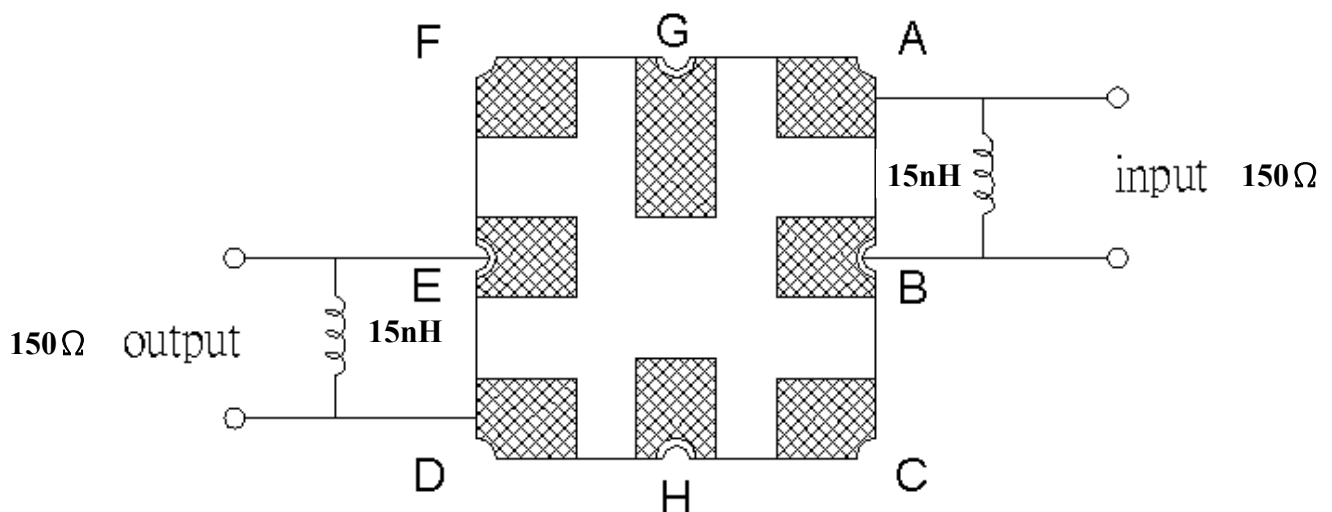
C.OUTLINE DRAWING:



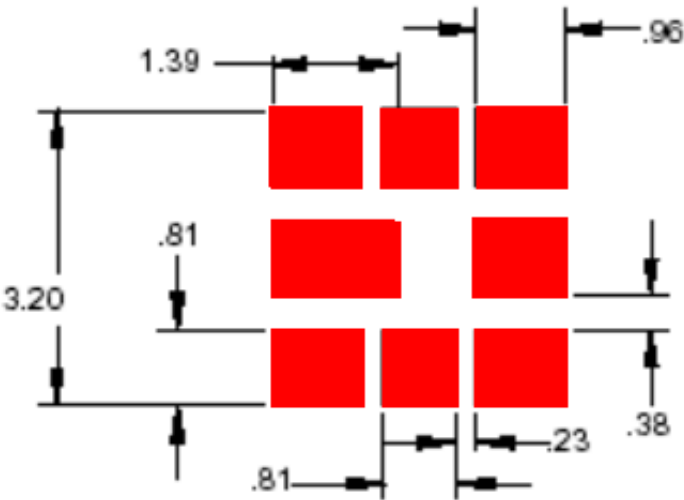
△ : Year Code (2006->6, ..., 2009->9)

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

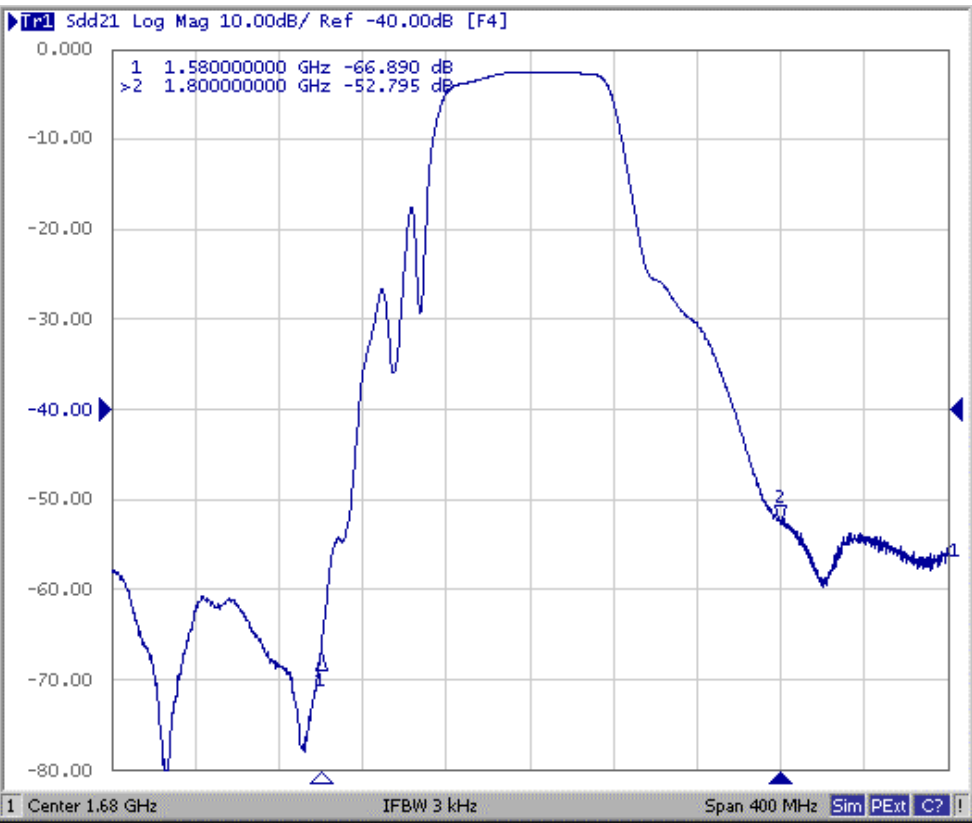
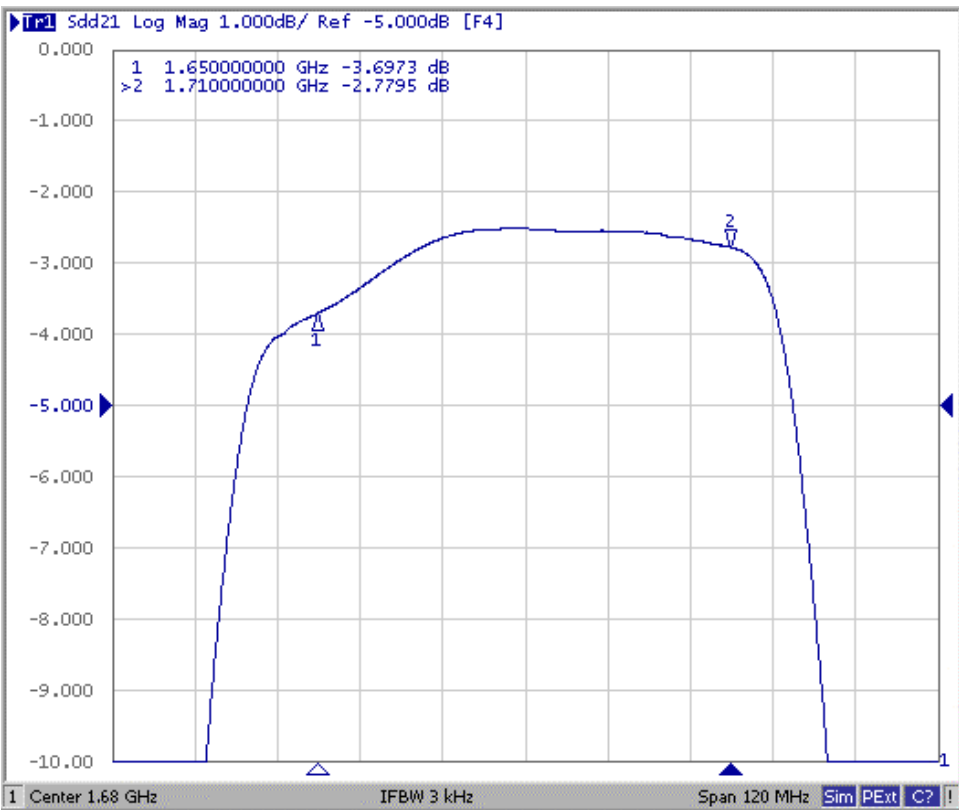
D. MEASUREMENT CIRCUIT:

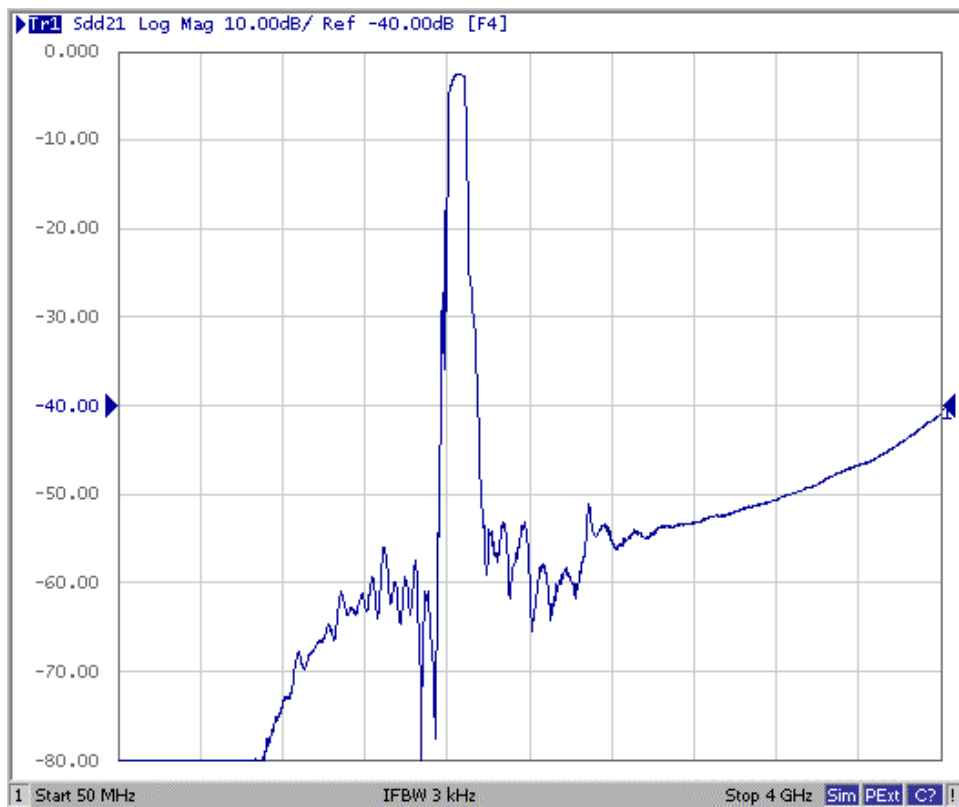


E. PCB Footprint:



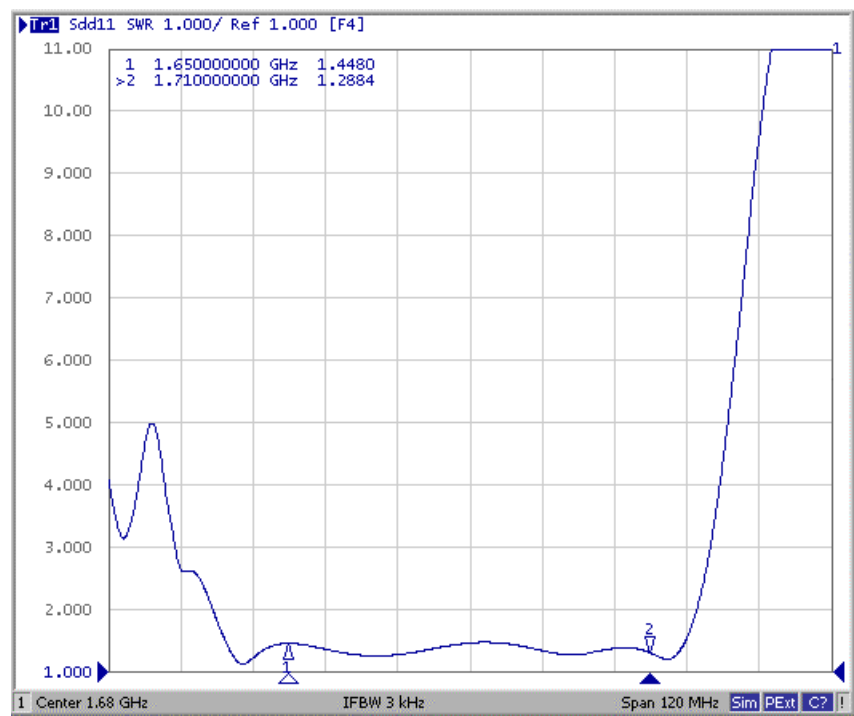
F. Frequency Characteristics :



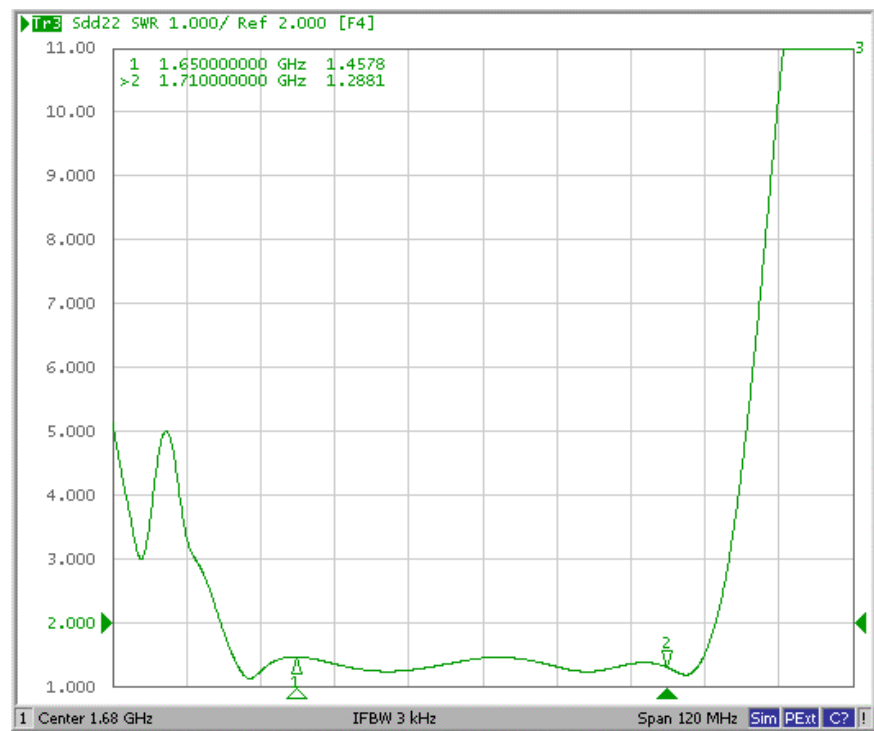


Reflection Functions :

S11



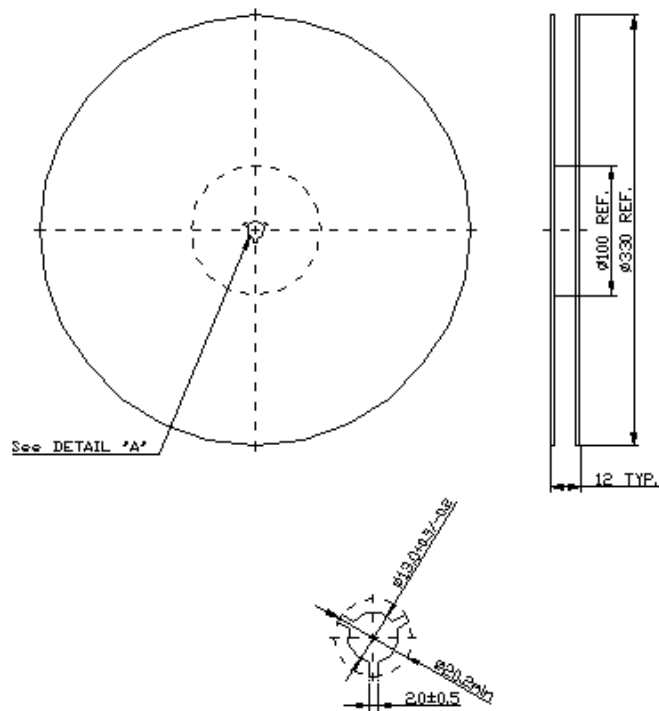
S22



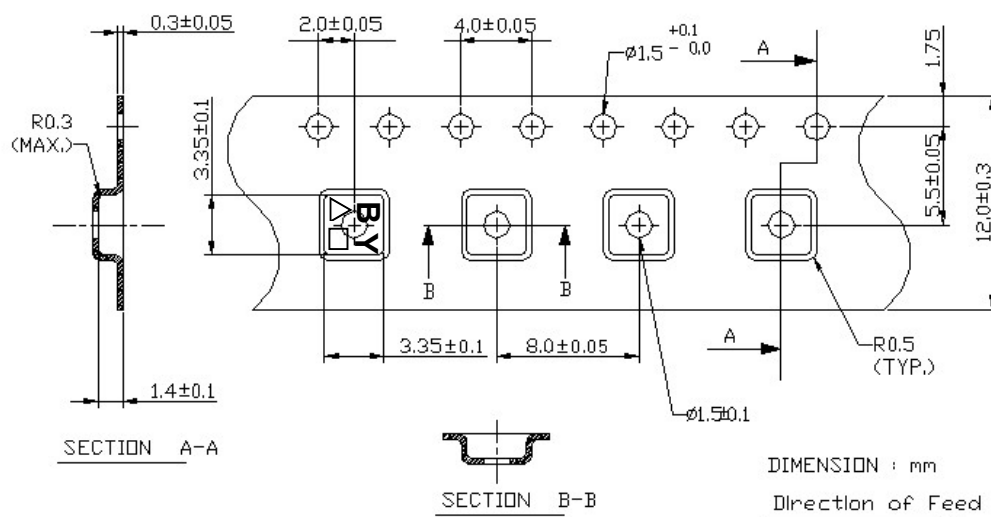
G. PACKING:

1. REEL DIMENSION

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



2.TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

