



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date: May, 19, 2008

Product Name: SAW Filter 1688.42 MHz SMD 3.0X3.0 mm

TST Parts No.: TA0727A

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Bob Chau

Approval by: _____ Francis Chen

Date: _____ 5, 19, 2008



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SAW Filter 1688.42 MHz

MODEL NO.:TA0727A

REV. NO.:3

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) : $Z_s = 150 \ \Omega \ // \ 39 \text{ nH}$

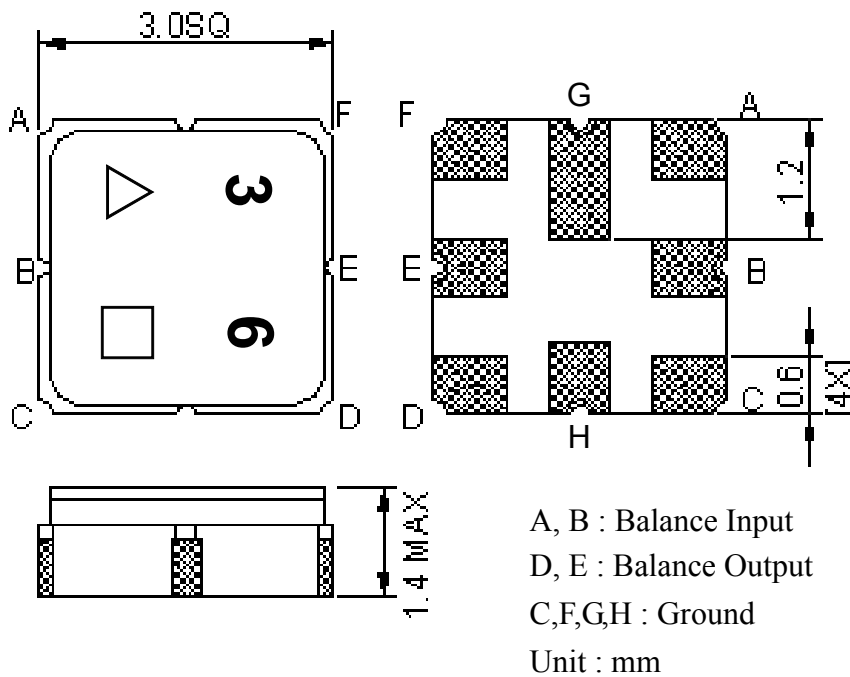
Terminating load impedance (differential) : $Z_L = 150 \ \Omega \ // \ 39 \text{ nH}$

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency F_c	MHz	-	1688.42	-	-
Bandwidth at -2 dB	MHz	40	59	-	-
Insertion Loss in 1668.42~1708.42 MHz	dB	-	2.7	5	-
Amplitude ripple (1668.42 MHz ~ 1708.42 MHz)	dB	-	0.8	2	-
Phase error (1668.42 MHz ~ 1708.42 MHz) (3)	deg	-	1.1	5	-
Group Delay ripple (1668.42 MHz ~ 1708.42 MHz)	ns	-	8	25	-
I/O VSWR (1668.42 MHz ~ 1708.42 MHz)		-	1.8	2.5	-
Attenuation (1)					
50 ~ 1606.36 MHz	dB	44	50	-	-
1770.48 ~ 1810.5 MHz	dB	46	55	-	-
1810.5 ~ 4250 MHz	dB	35	41	-	-
4250 ~ 6000 MHz	dB	30	38	-	-

Notes :

- (1) The amplitude reference is insertion loss at F_c.
- (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.

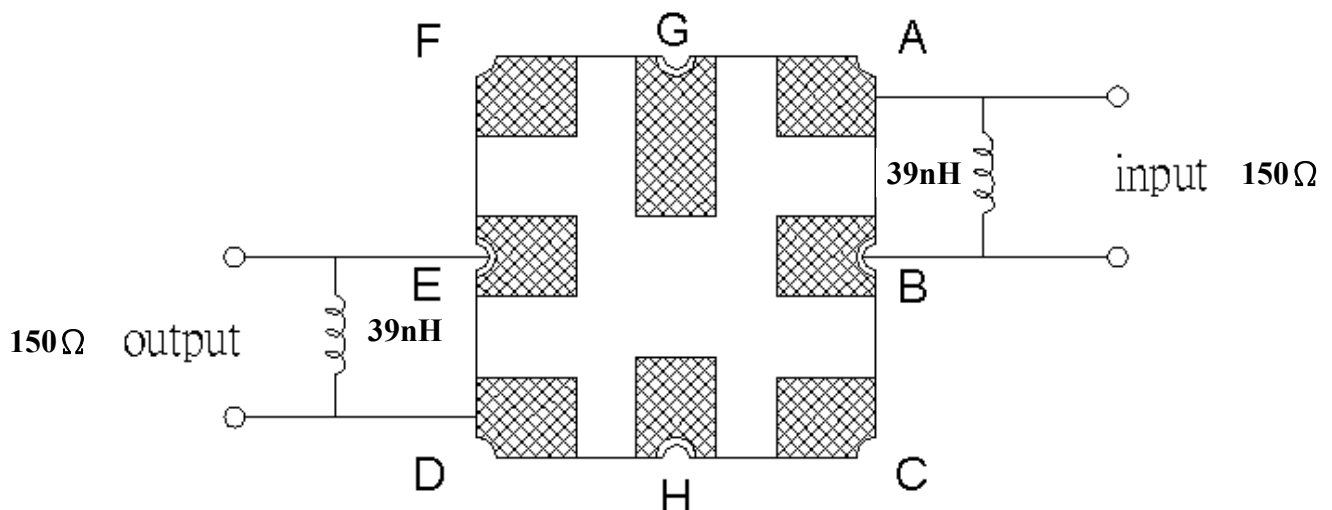
C. OUTLINE DRAWING:



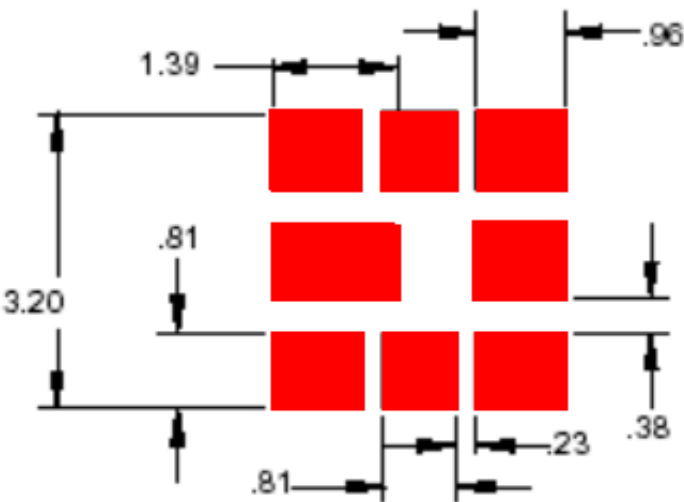
△ : Year Code (2006->6, ..., 2009->9)

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

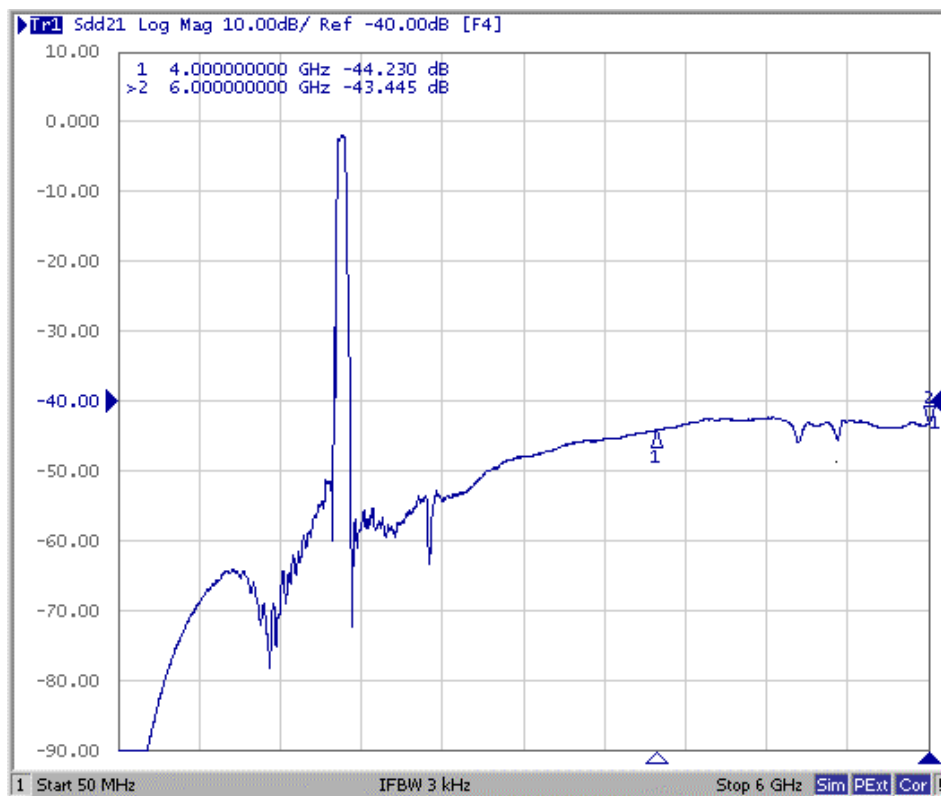
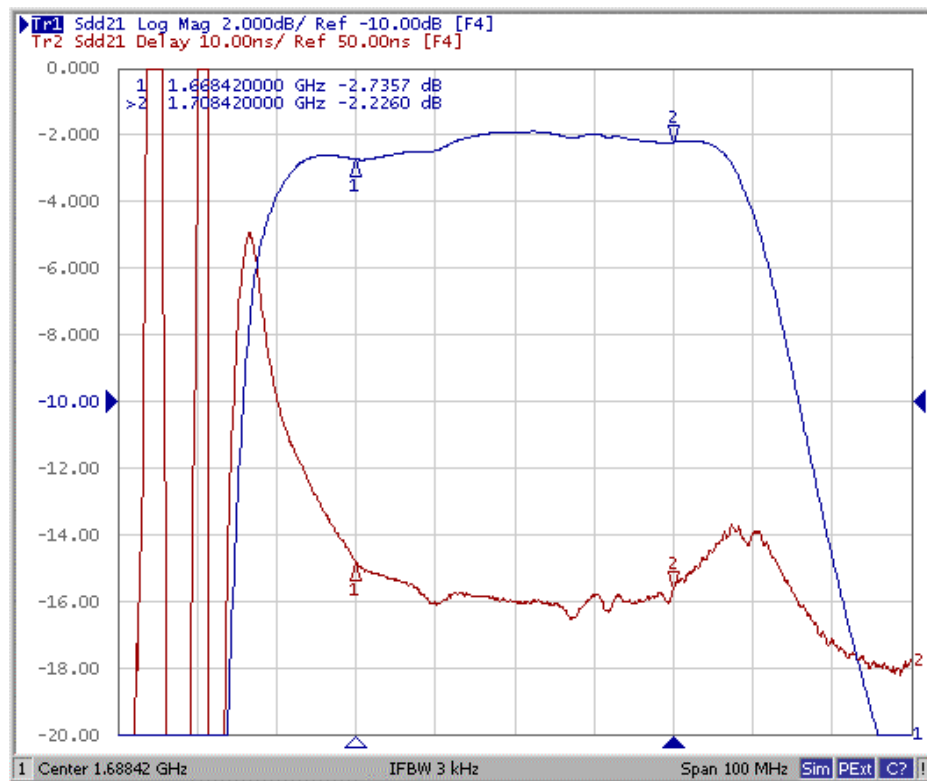
D. MEASUREMENT CIRCUIT:



E. PCB Footprint:

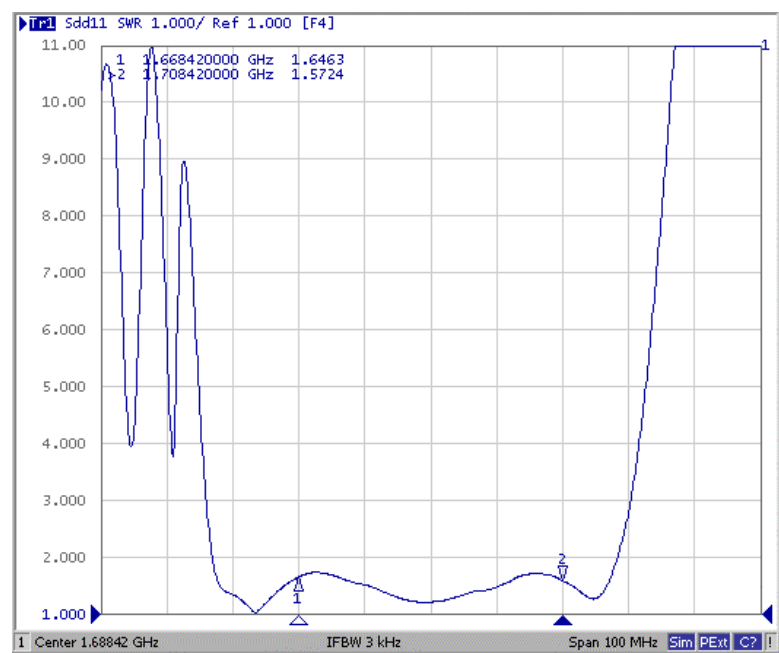


F. Frequency Characteristics :

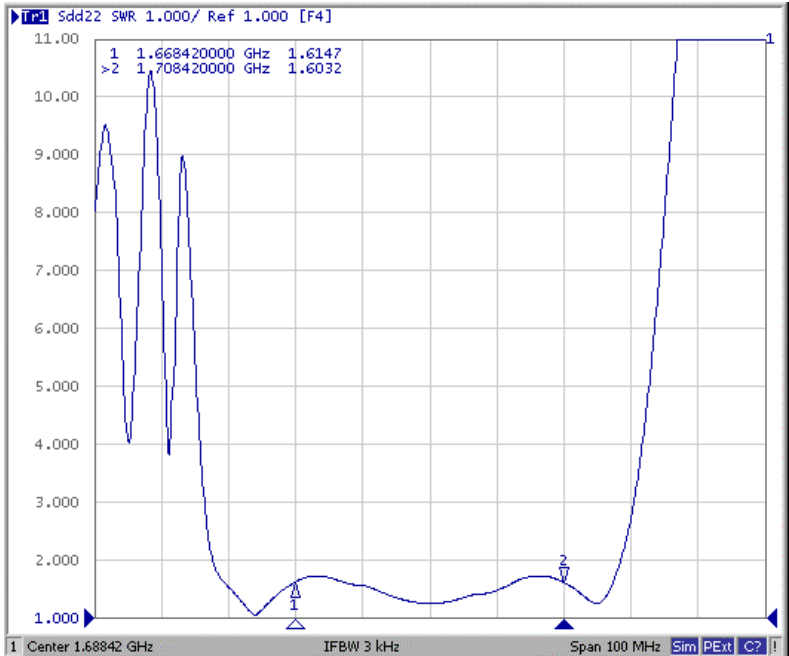


Reflection Functions :

S11



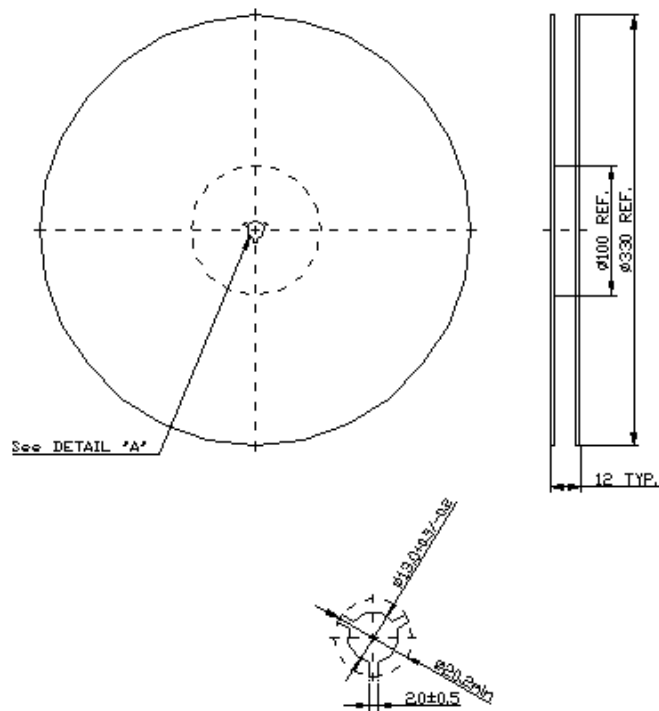
S22



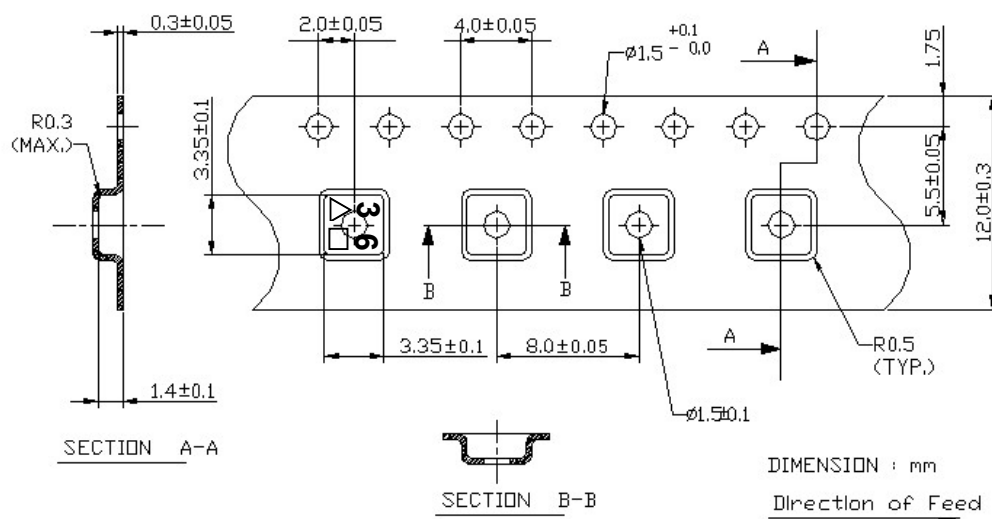
G. PACKING:

1. REEL DIMENSION

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



2.TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

