



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Approval Sheet For Product Specification


Issued Date: Oct, 3, 2008

Product Name: SAW Filter 1420 MHz SMD 3.0X3.0 mm

TST Parts No.: TA0890A

Customer Parts No.: _____

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

Checked by: _____ Bob Chau 

Approval by: _____ Francis Chen 

Date: _____ 10, 3, 2008



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SAW Filter 1420 MHz

MODEL NO.:TA0890A

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) : $Z_s = 150 \Omega // 18 \text{ nH}$

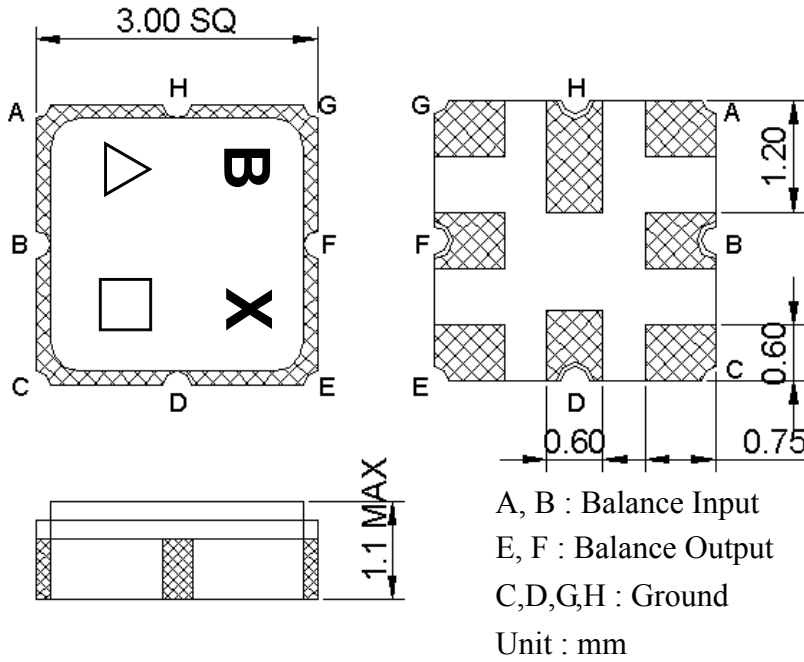
Terminating load impedance (differential) : $Z_L = 150 \Omega // 18 \text{ nH}$

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	1420	-	-
Bandwidth at -2 dB	MHz	60	71	-	-
Insertion Loss in 1390~1450 MHz	dB	-	2.6	5	-
Amplitude ripple (1390 MHz ~ 1450 MHz)	dB	-	1.3	2	-
Phase error (1390 MHz ~ 1450 MHz) (3)	deg	-	2.5	5	-
I/O VSWR (1390 MHz ~ 1450 MHz)		-	1.8	2.5	-
CMDR (1390 MHz ~ 1450 MHz)	dB	25	32	-	-
Attenuation (1)					
50 ~ 1320 MHz	dB	42	49.5	-	-
1530 ~ 3000 MHz	dB	42	49.5	-	-
3000 ~ 4000 MHz	dB	30	32	-	-
4000 ~ 6000 MHz	dB	15	20	-	-

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.

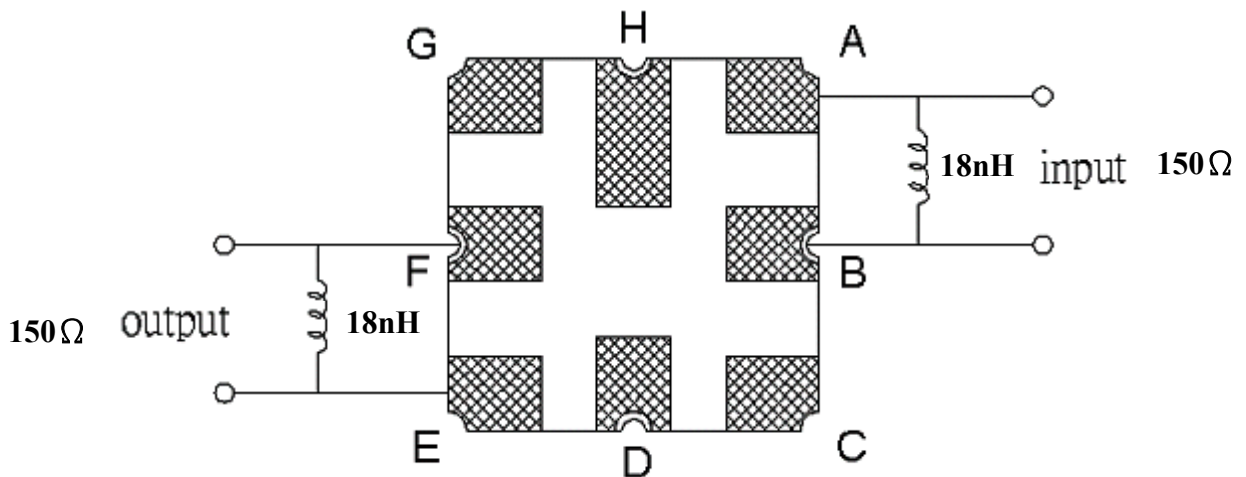
C.OUTLINE DRAWING:



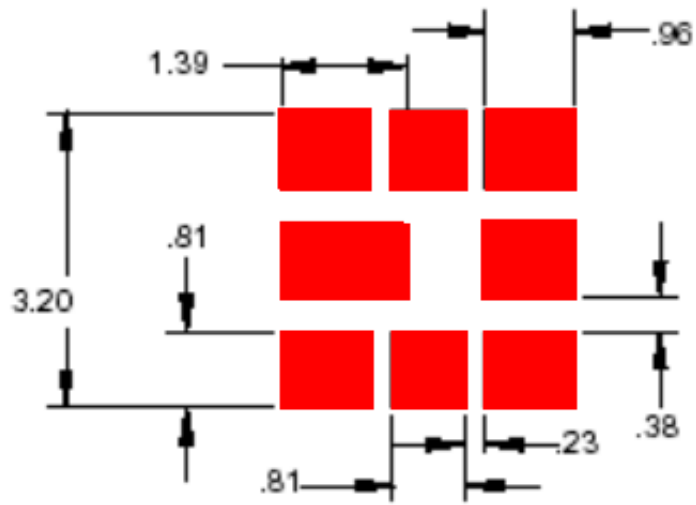
△ : Year Code (2006->6, ..., 2009->9)

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

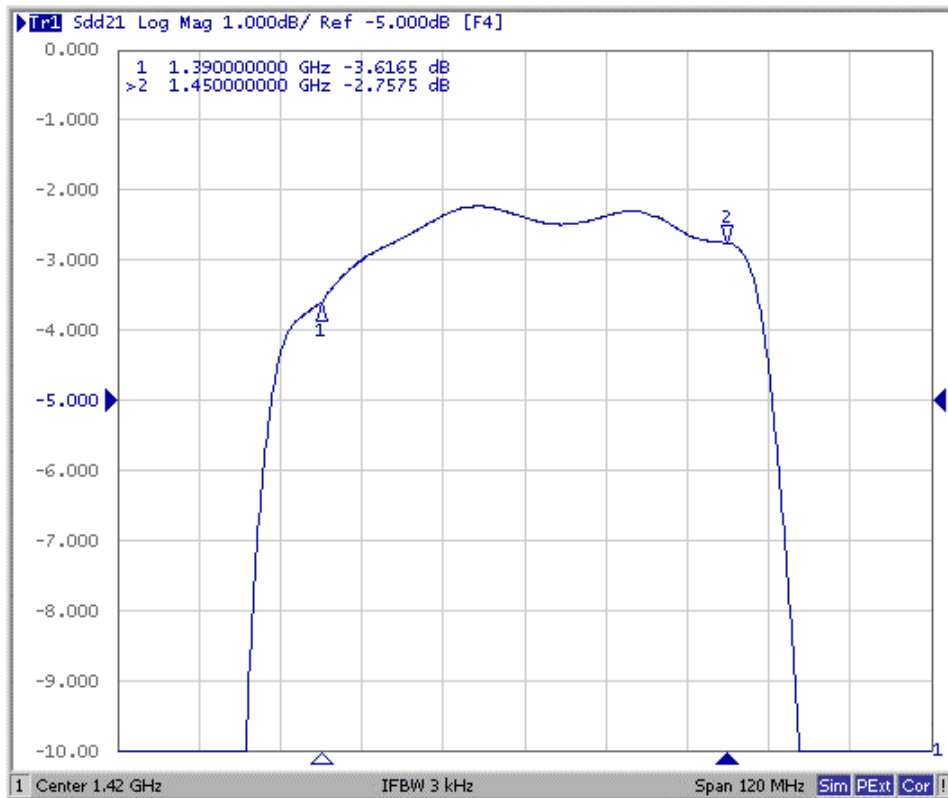
D. MEASUREMENT CIRCUIT:

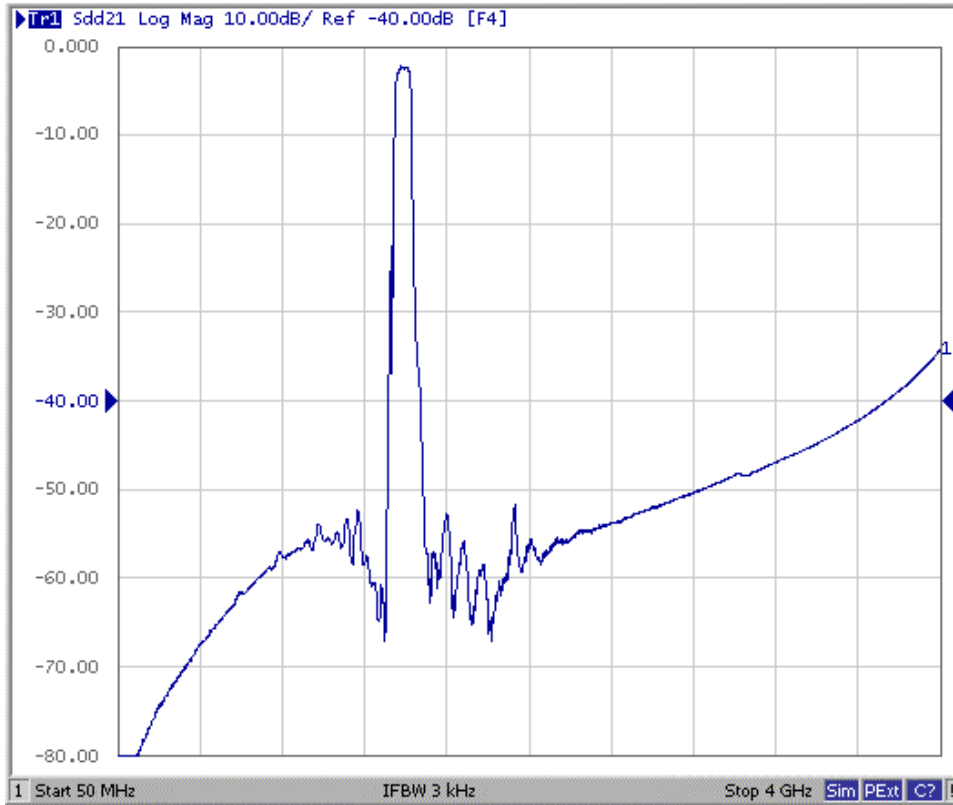


E. PCB Footprint:



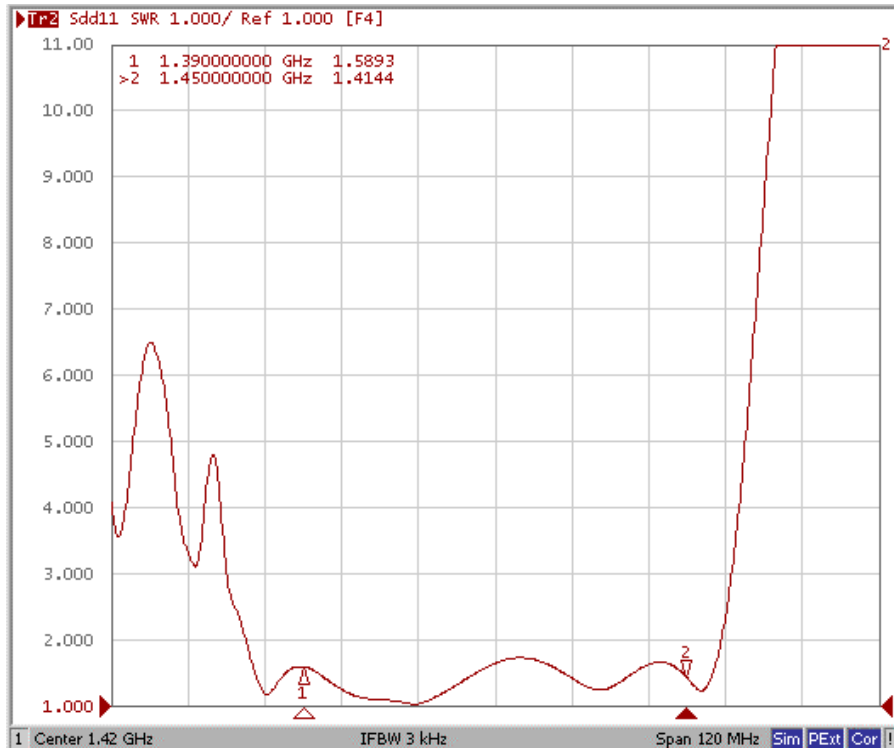
F. Frequency Characteristics :



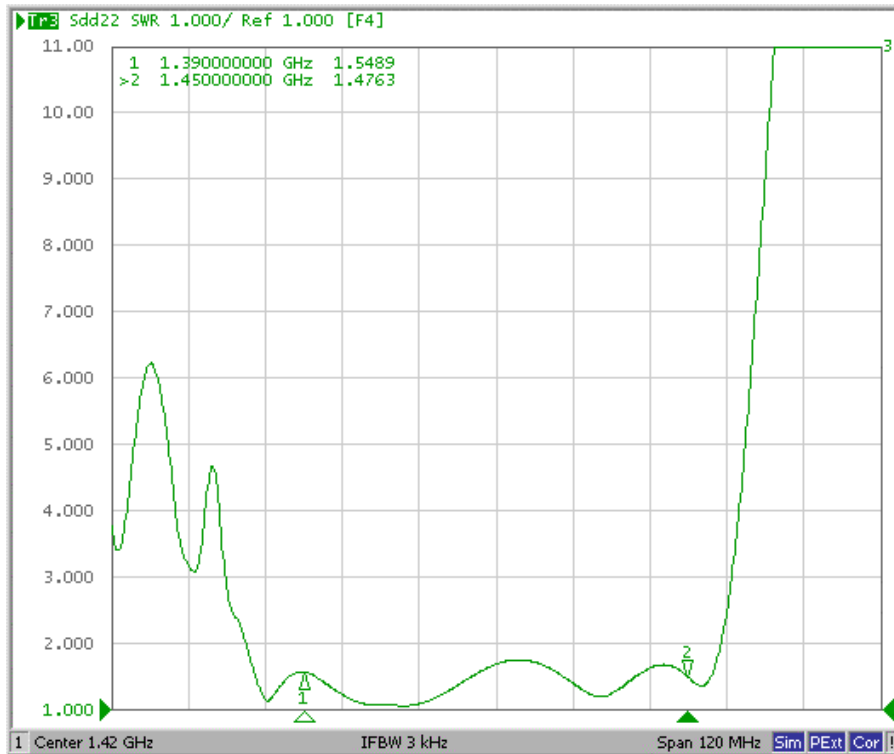


Reflection Functions :

S11



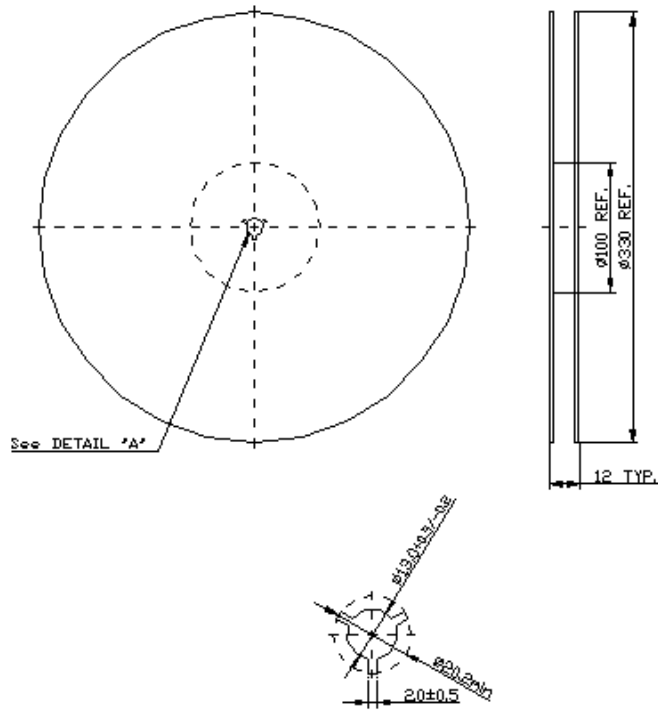
S22



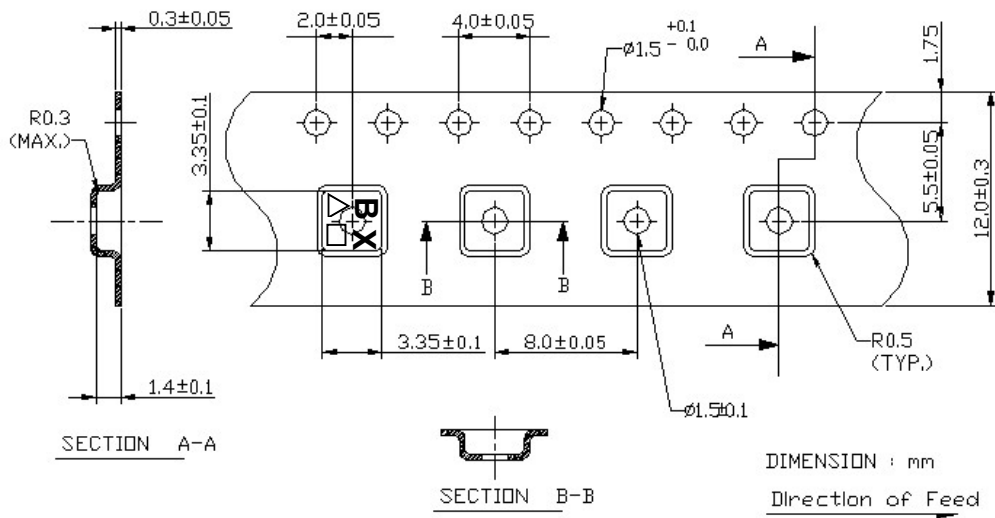
G. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

