



# TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,  
Taoyuan, 324, Taiwan, R.O.C.

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## Approval Sheet For Product Specification

Issued Date: February, 16, 2007

Product Name: SAW Filter 2120MHz SMD 3.0 mm

TST Parts No.: :TA0653A

Customer Parts No.: \_\_\_\_\_

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

Checked by: \_\_\_\_\_ Paul Ni

Approval by: \_\_\_\_\_ Francis chen

Date: \_\_\_\_\_ 02, 16, 2007



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SAW Filter 2120 MHz  
MODEL NO.: TA0653A

REV. NO : 1.0

## A. MAXIMUM RATING:

1. Input Power Level: 10 dB<sub>m</sub>
2. DC voltage: 3 V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -40°C to +85°C

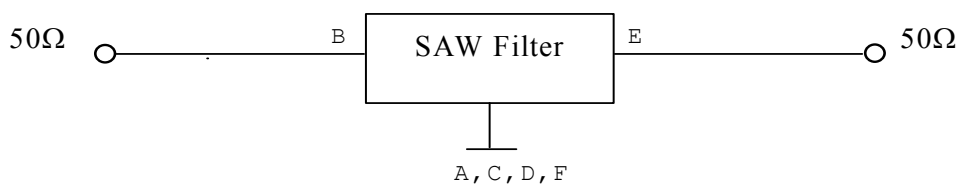
RoHS Compliant  
Lead free  
Lead-free soldering

## B. ELECTRICAL CHARACTERISTICS:

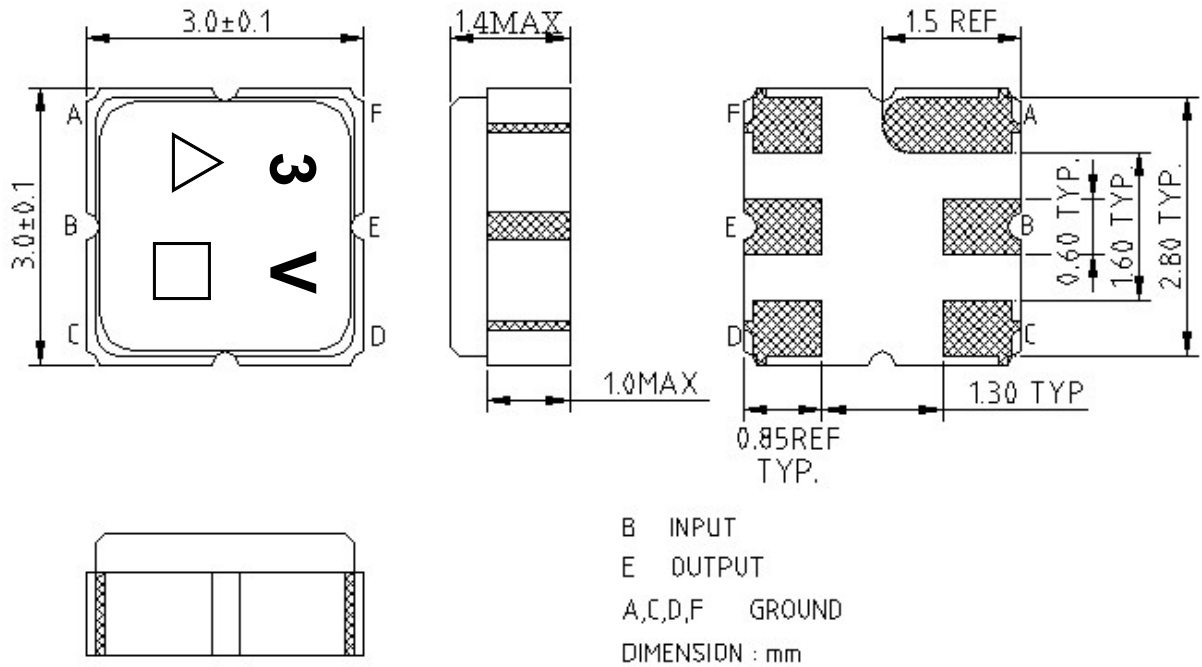
Item	Min.	Typ.	Max.
Center frequency Fc (dB)	-	2120	-
Insertion loss within 2110 ~2130 MHz IL (dB)	-	2.4	4
Amplitude ripple (p-p) within 2110 ~ 2130 MHz (dB)	-	0.7	2.0
<b>Attenuation</b> (Reference level from 0 dB)			
D.C. ~ 500 MHz (dB)	20	32	-
500 ~ 1900 MHz (dB)	18	28	-
1900 ~ 2040 MHz (dB)	22	33	-
2220 ~ 2300 MHz (dB)	24	36	-
2300 ~ 4000 MHz (dB)	22	34	-
VSWR within 2110 ~2130 MHz	-	1.7	2.5
Source impedance Z <sub>s</sub> (Ω)	-	50	-
Load impedance Z <sub>L</sub> (Ω)	-	50	-

## C. MEASUREMENT CIRCUIT:

HP Network analyzer



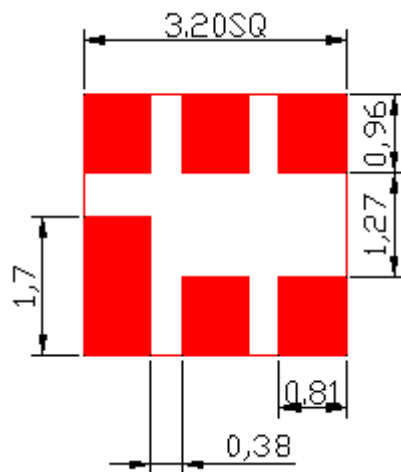
**D.OUTLINE DRAWING:**



$\triangle$  : Year Code(2007→7, ... 2009→9)

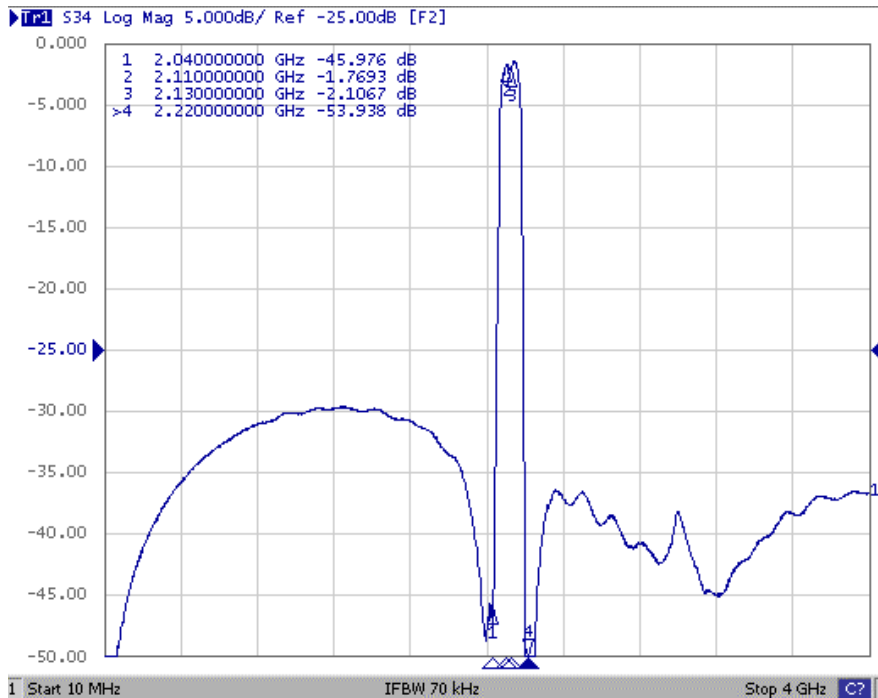
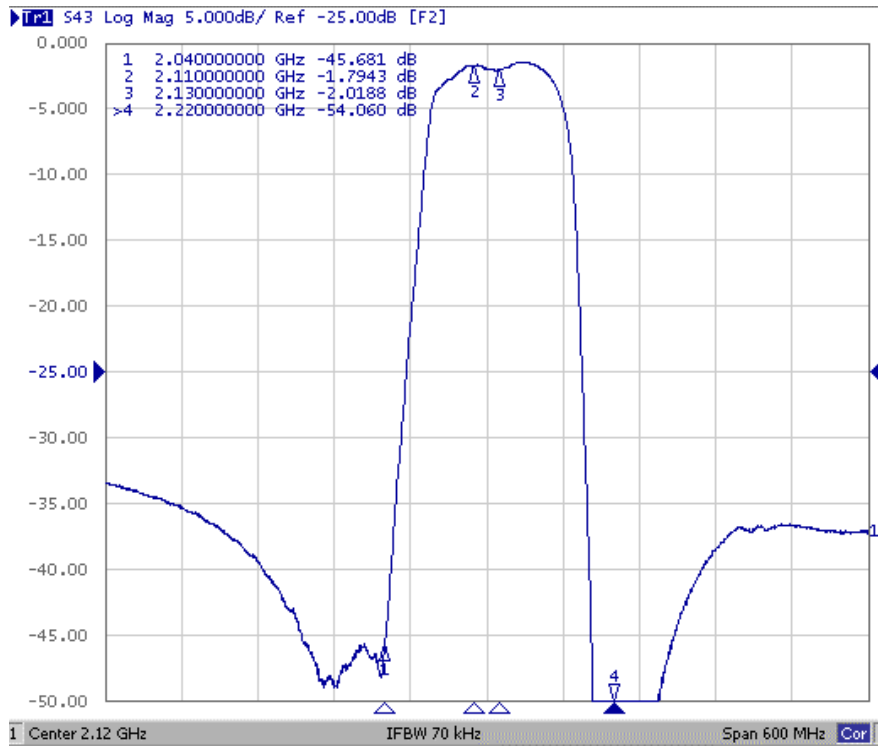
$\square$  : Date Code(Follow the table from planner each year)

**E. PCB Footprint :**



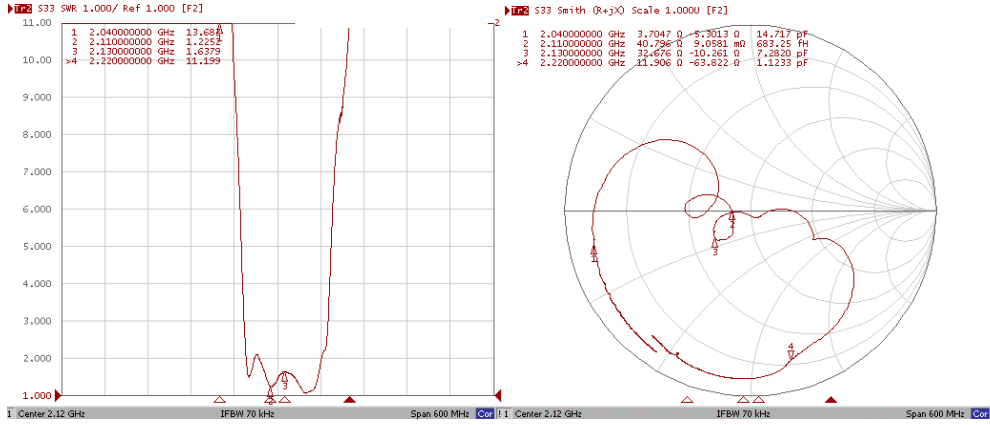
## F. Frequency Characteristics :

### Transfer function

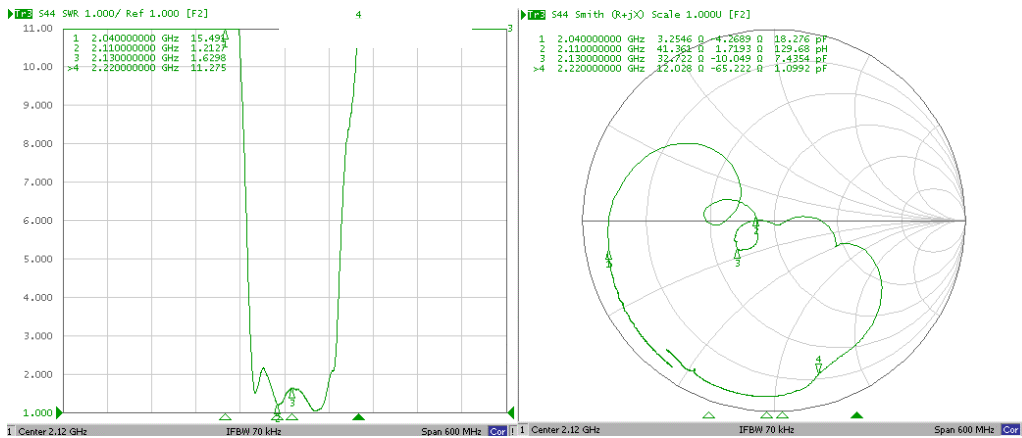


## Reflections Functions :

### S11 VSWR

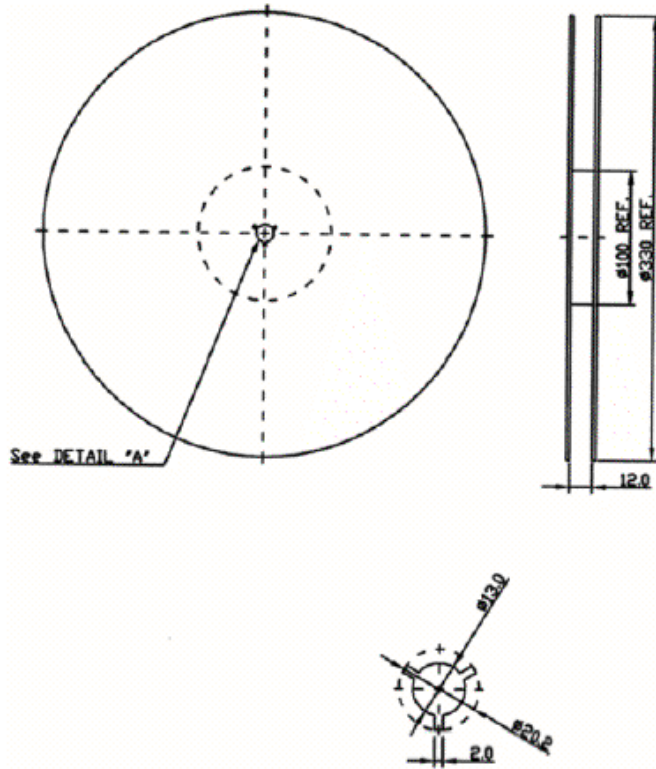


### S22 VSWR

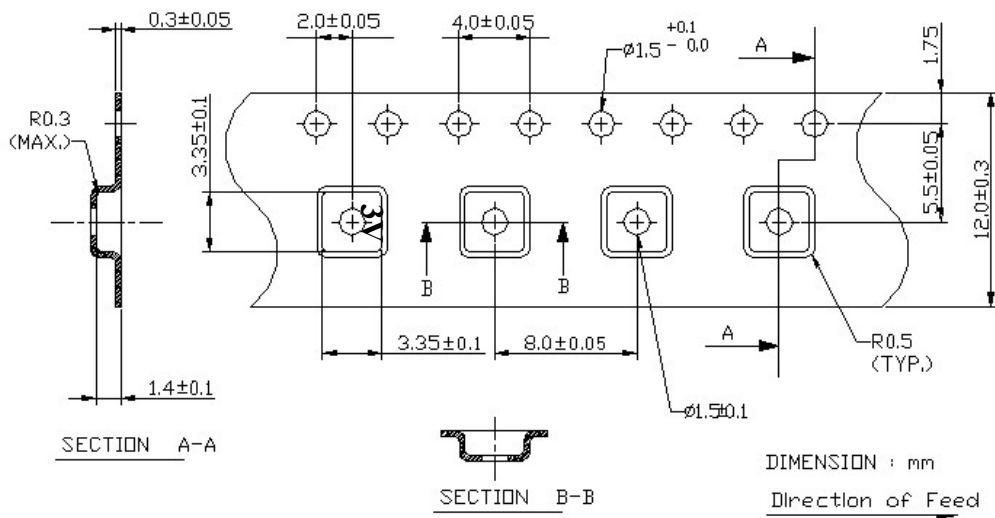


**G. PACKING:**

**1. REEL DIMENSION**



**2. TAPE DIMENSION**



**H. RECOMMENDED REFLOW PROFILE:**

