



# 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: May, 4, 2005

Product Name: SAW Filter 2160 MHz SMD 3X3 mm

TST Parts No.:TA0465A

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

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

Checked by:\_\_\_\_\_ Bob Chau

Approval by:\_\_\_\_\_ Francis Chen

Date:\_\_\_\_\_ 5, 4, 2005



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## SAW Filter 2160 MHz

MODEL NO.: TA0465A

REV. NO.:1

### A. MAXIMUM RATING:

1. Input Power Level: 5 dB<sub>m</sub>
2. DC voltage: 0 V
3. Operating Temperature: -30°C to +80°C
4. Storage Temperature: -40°C to +85°C

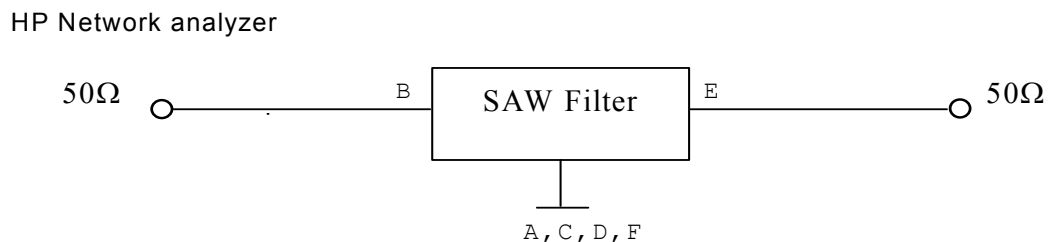
RoHS Compliant  
Lead free  
Lead-free soldering

### B. ELECTRICAL CHARACTERISTICS:

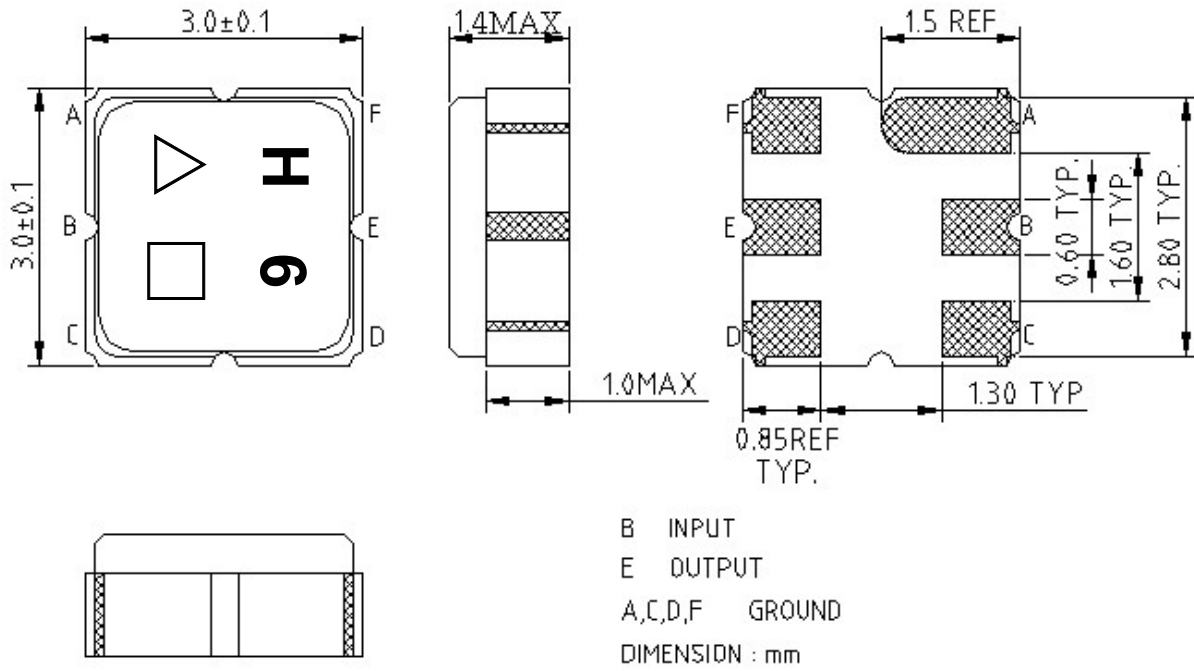
Item		Min.	Typ.	Max.
<b>Center frequency</b>	<b>F<sub>c</sub></b> (MHz)	-	2160	-
<b>Insertion loss</b> (2130~2190 MHz)	<b>IL</b> (dB)	-	2.2	3.5
<b>Amplitude ripple</b> (2130~2190 MHz)	(dB)	-	1.0	2.0
<b>Attenuation</b> (Reference level from 0 dB)				
D.C. ~ 500	MHz (dB)	21	34	-
500 ~ 1900	MHz (dB)	20	29	-
1900 ~ 2050	MHz (dB)	25	33	-
2070	MHz (dB)	40	47	-
2240 ~ 2300	MHz (dB)	20	40	-
2300 ~ 4500	MHz (dB)	22	32	-
<b>Input/Output VSWR</b> (2130~2170 MHz)		-	1.9	2.3
<b>Source impedance</b>	Z <sub>s</sub> (Ω)	-	50	-
<b>Load impedance</b>	Z <sub>L</sub> (Ω)	-	50	-

Note1. The standard definitions is in JIS C 6703

### C. MEASUREMENT CIRCUIT:

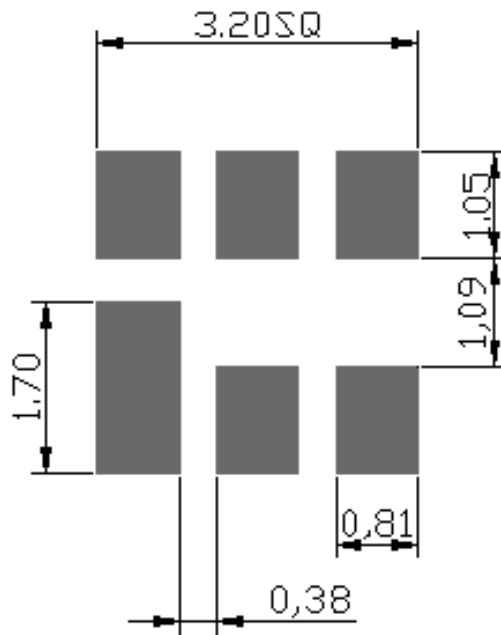


**D. OUTLINE DRAWING:**

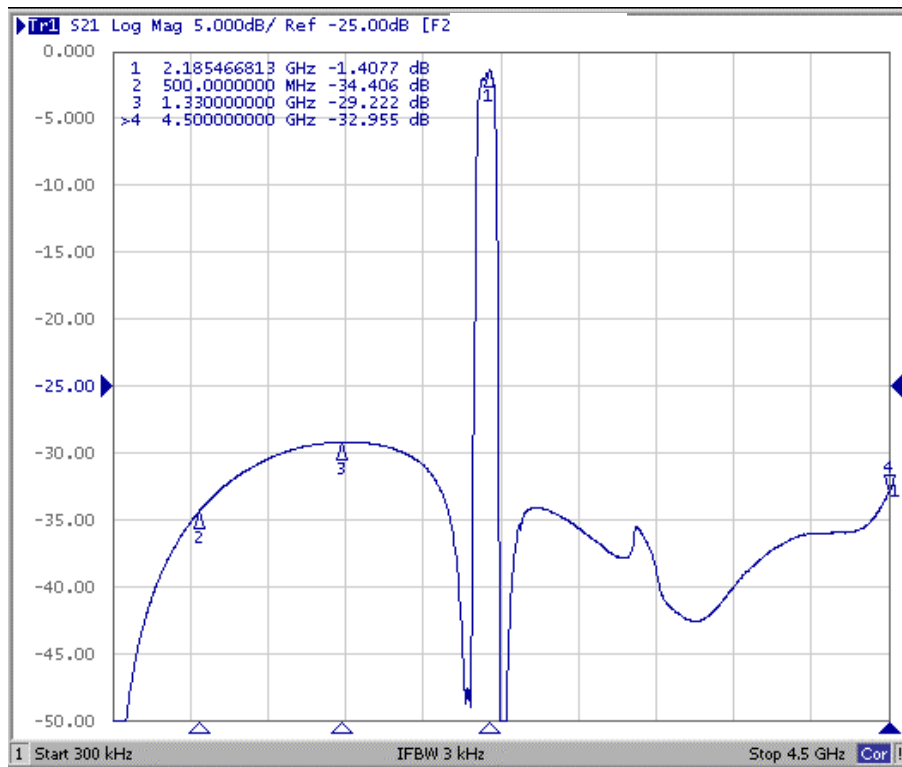
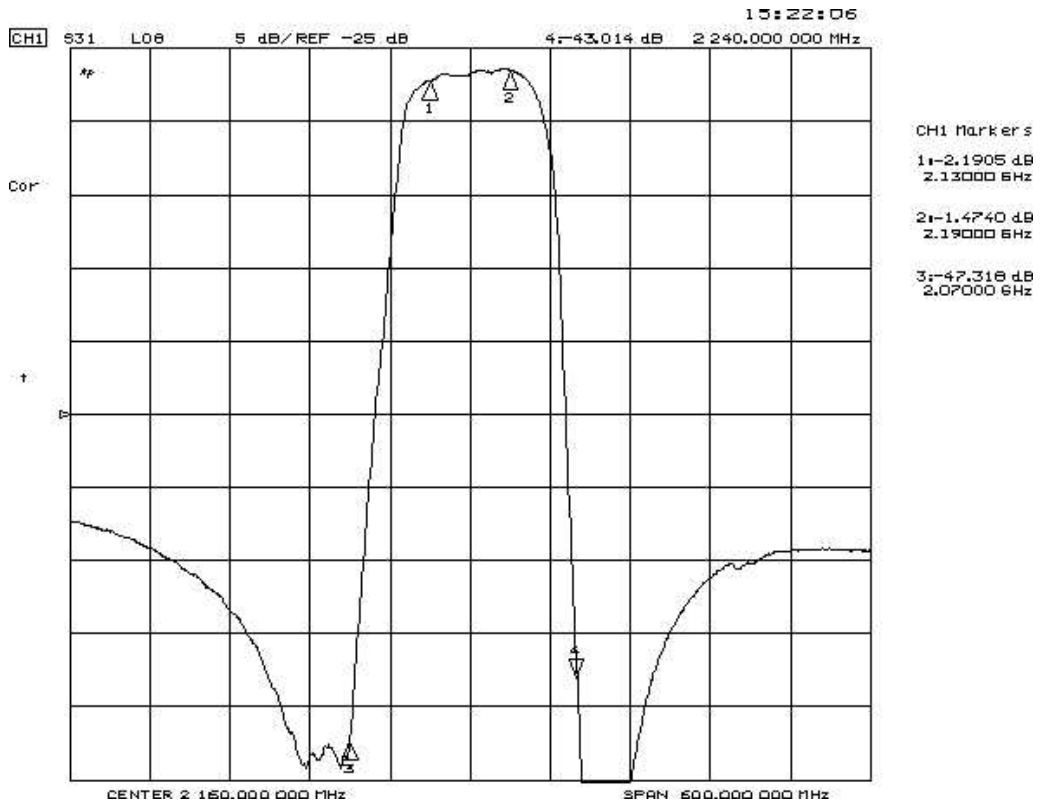


△ : Year Code  
 □ : Date Code

**E. PCB Footprint:**

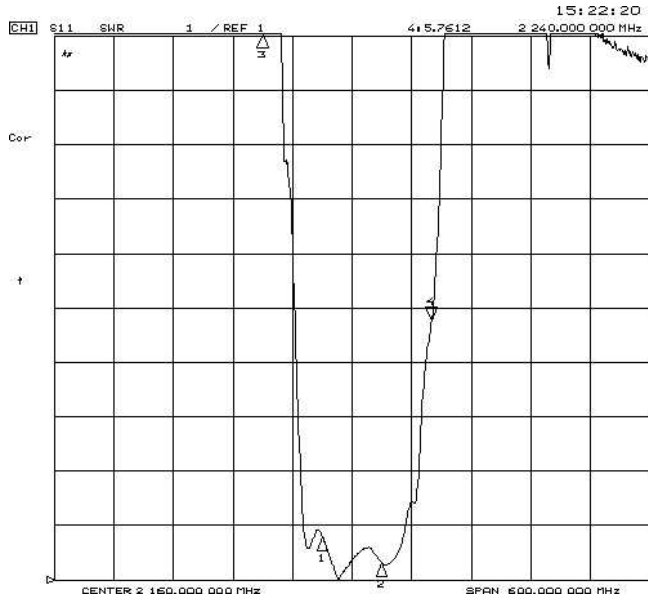


## F. Frequency Characteristics : Transfer function

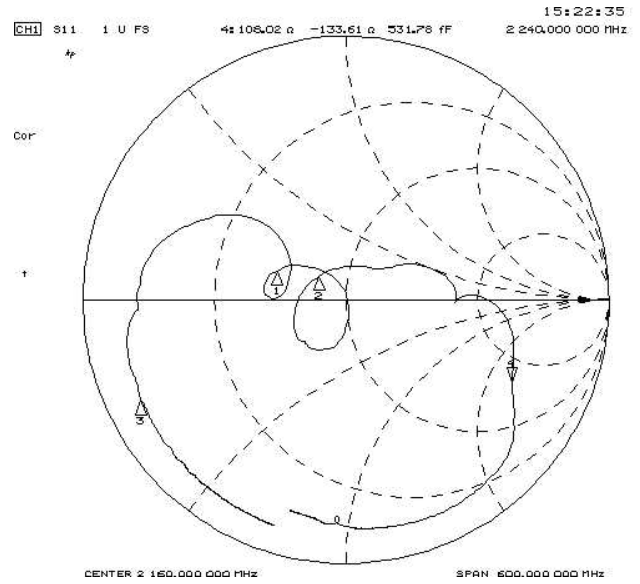


# Reflections Functions :

## S11

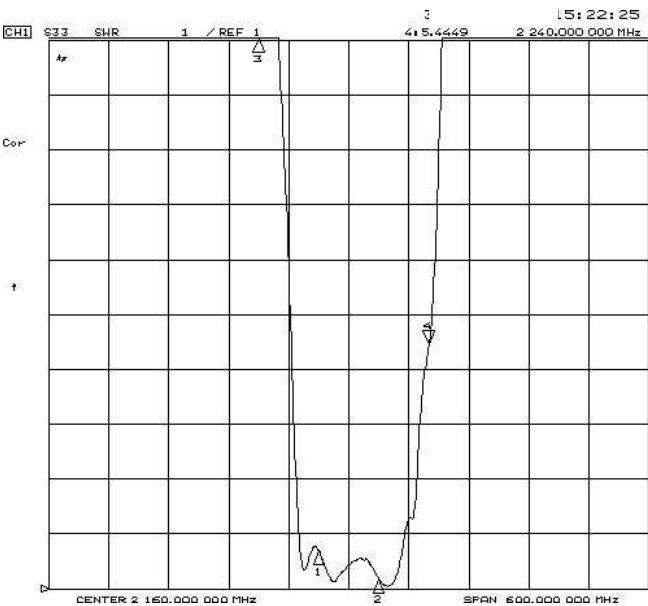


CHI Markers  
 1: 1.7924  
 2.13000 GHz  
 2: 1.3143  
 2.19000 GHz  
 3: 14.095  
 2.07000 GHz

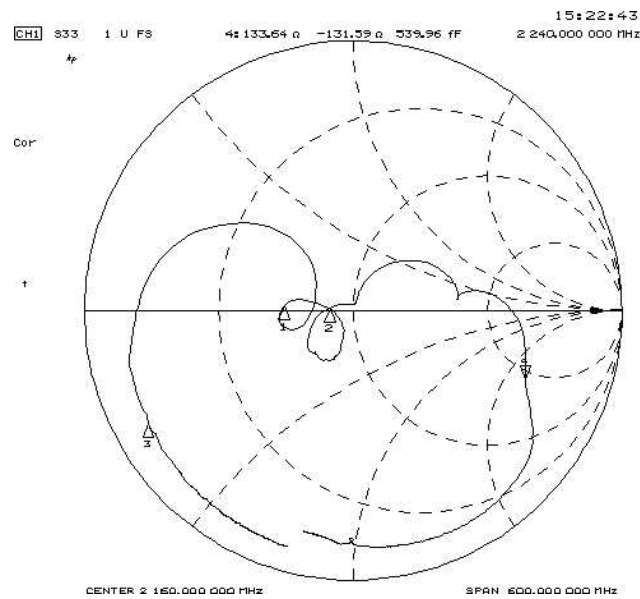


CHI Markers  
 1: 28.643 a  
 5.8467 a  
 2.13000 GHz  
 2: 40.203 a  
 7.4727 a  
 2.19000 GHz  
 3: 3.7021 a  
 -11.559 a  
 2.07000 GHz

## S22



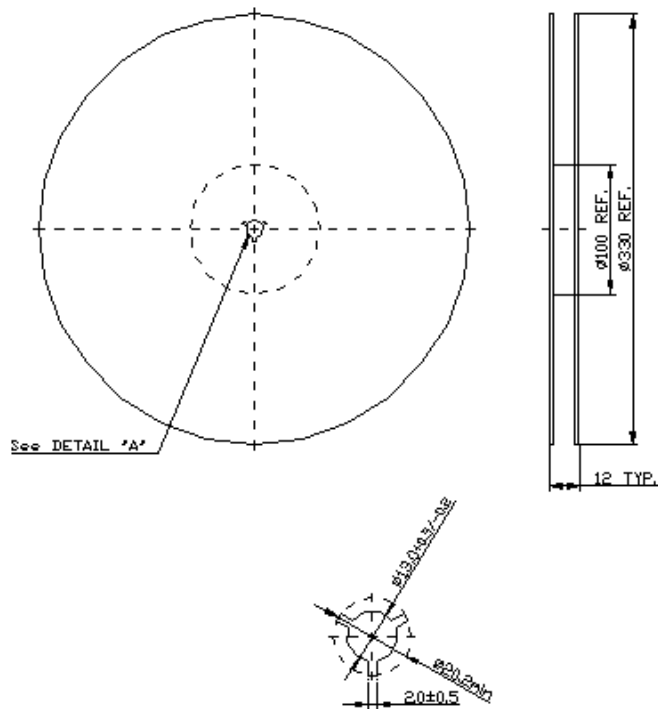
CHI Markers  
 1: 1.6924  
 2.13000 GHz  
 2: 1.1868  
 2.19000 GHz  
 3: 14.521  
 2.07000 GHz



CHI Markers  
 1: 29.514 a  
 1.0420 a  
 2.13000 GHz  
 2: 42.096 a  
 0.8555 a  
 2.19000 GHz  
 3: 3.6875 a  
 -12.749 a  
 2.07000 GHz

## G. PACKING:

### 1. REEL DIMENSION



### 2. TAPE DIMENSION

