



# 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: Jul, 19, 2007

Product Name: SAW Filter 2442 MHz SMD 3X3 mm

TST Parts No.:TA0222A

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

Company: \_\_\_\_\_

Division: \_\_\_\_\_

Approved by : \_\_\_\_\_

Date: \_\_\_\_\_

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

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

Date: \_\_\_\_\_ 7, 19, 2007



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## SAW Filter 2442 MHz

MODEL NO.: TA0222A

REV. NO.:3

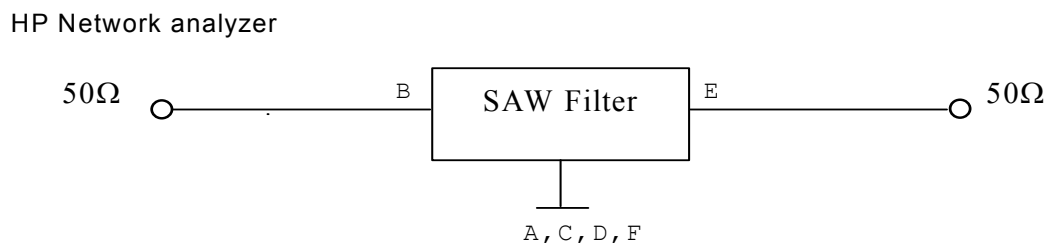
### A. MAXIMUM RATING:

1. Input Power Level: 10 dB<sub>m</sub>
2. DC voltage: 0 V
3. Operating Temperature: -20°C to +70°C
4. Storage Temperature: -40°C to +85°C

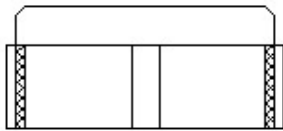
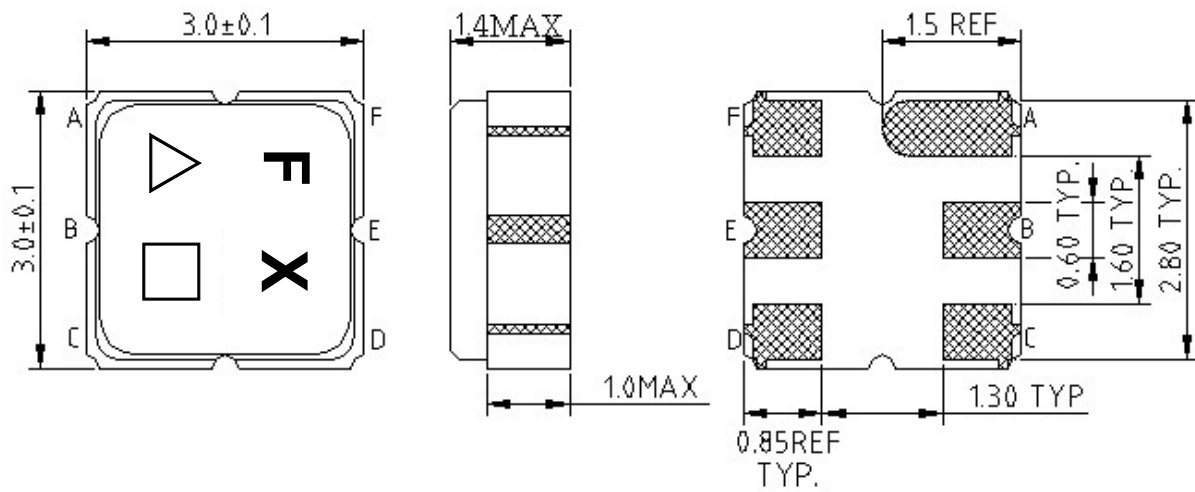
### B. ELECTRICAL CHARACTERISTICS:

Item		Min.	Typ.	Max.
<b>Center frequency</b>	<b>Fr</b> (MHz)	2437	2442	2447
<b>Minimum Insertion loss</b> (2437~2447 MHz)	<b>IL<sub>min</sub></b> (dB)	-	1.9	6.0
<b>Pass Bandwidth</b> (relative to IL <sub>min</sub> )	<b>BW<sub>3</sub></b> (MHz)	55	78	-
<b>Amplitude ripple</b> (Fr +/- 12.5 MHz)	(dB)	-	0.6	2.0
<b>Group Delay Ripple</b> (Fr +/- 12.5 MHz)	(ns)	-	5	20
<b>Group Delay</b> (Fr +/- 12.5 MHz)	(ns)	-	14	50
<b>Attenuation</b> (Reference level from 0 dB)				
D.C. ~ 2300 MHz	(dB)	37.0	41.0	-
2300 ~ 2367 MHz	(dB)	20.0	31.0	-
2517 ~ 2650 MHz	(dB)	40.0	44.0	-
2650 ~ 4000 MHz	(dB)	25.0	31.0	-
<b>VSWR</b> (Fr +/- 12.5 MHz)		-	1.6	2.5
<b>Source impedance</b>	Z <sub>s</sub> (Ω)	-	50	-
<b>Load impedance</b>	Z <sub>L</sub> (Ω)	-	50	-

### C. MEASUREMENT CIRCUIT:



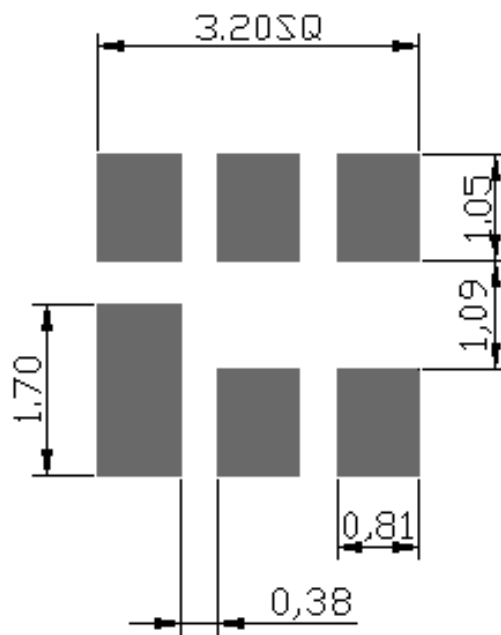
**D. OUTLINE DRAWING:**



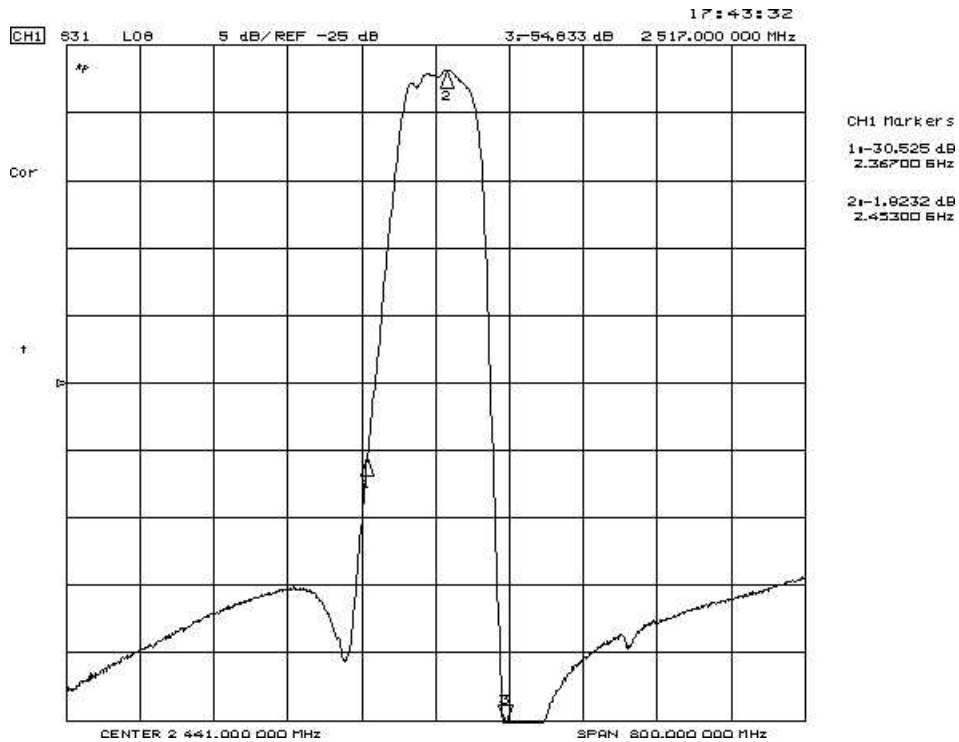
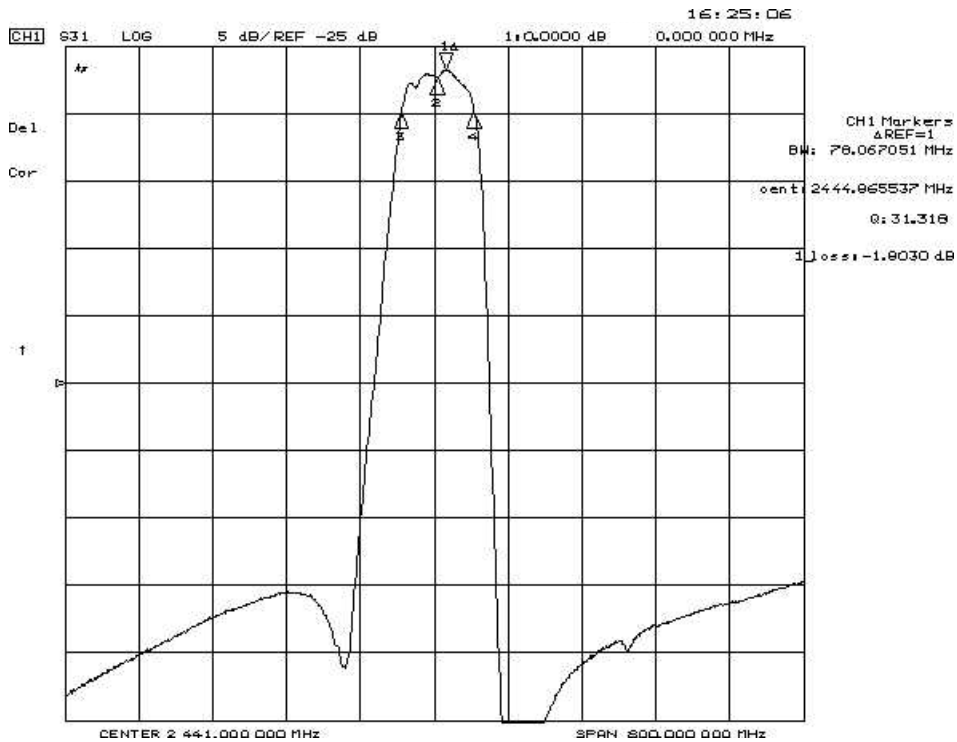
B INPUT  
 E OUTPUT  
 A,C,D,F GROUND  
 DIMENSION : mm

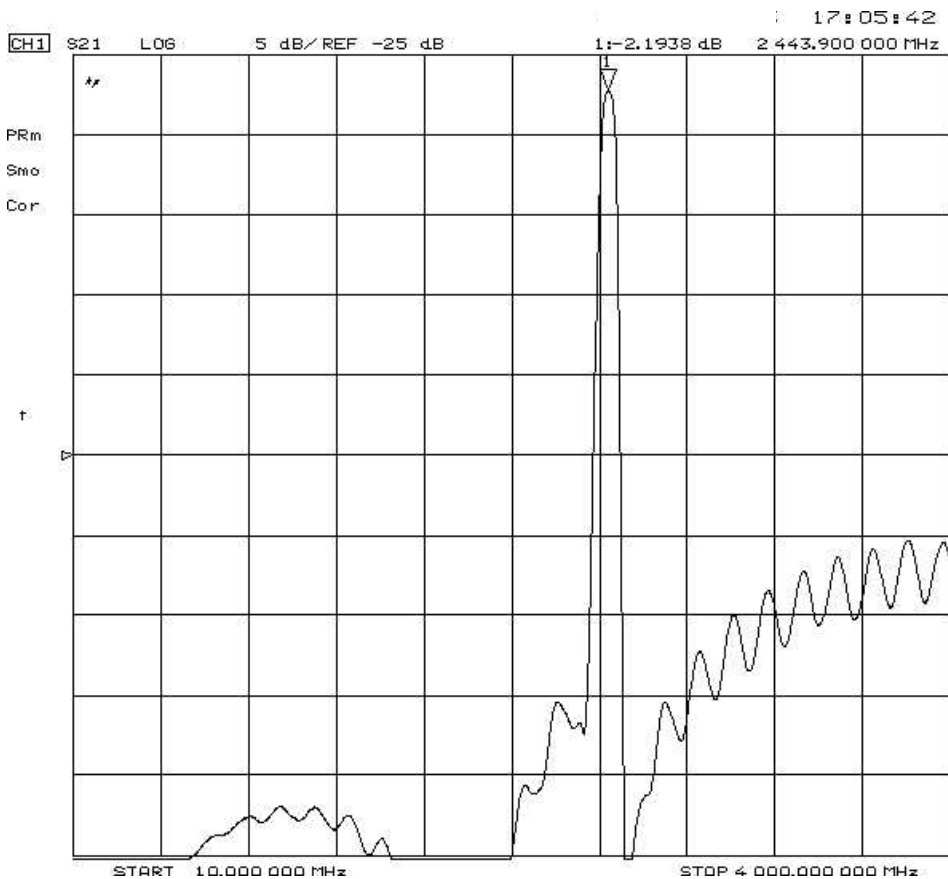
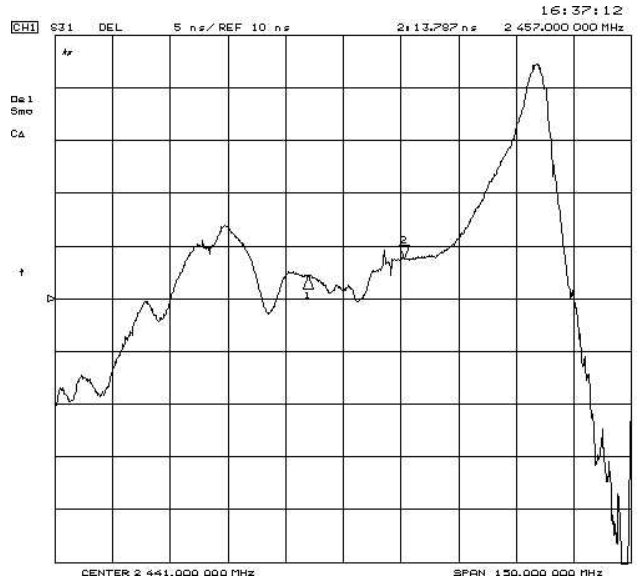
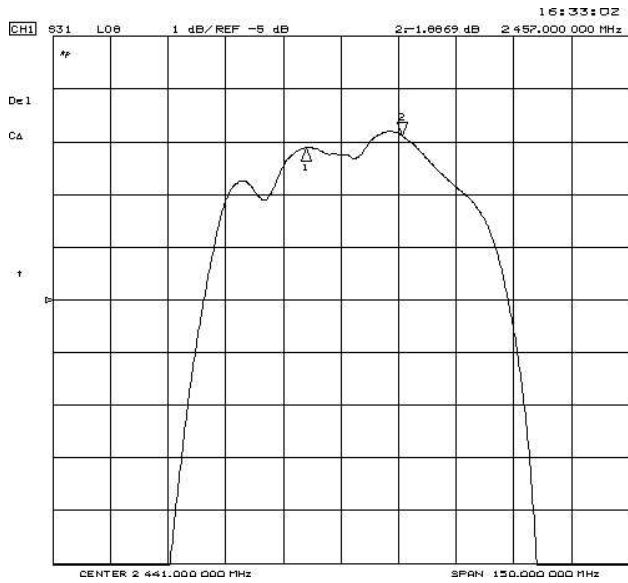
△ : Year Code  
 □ : Date Code

**E. PCB Footprint:**



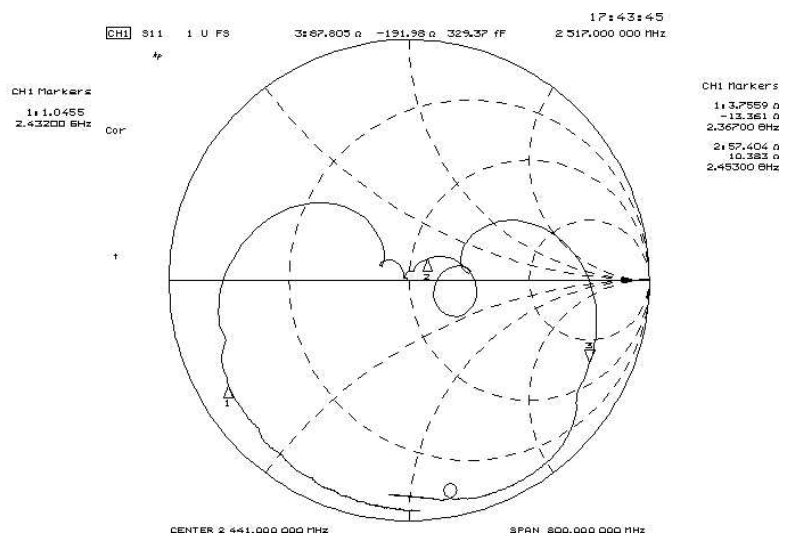
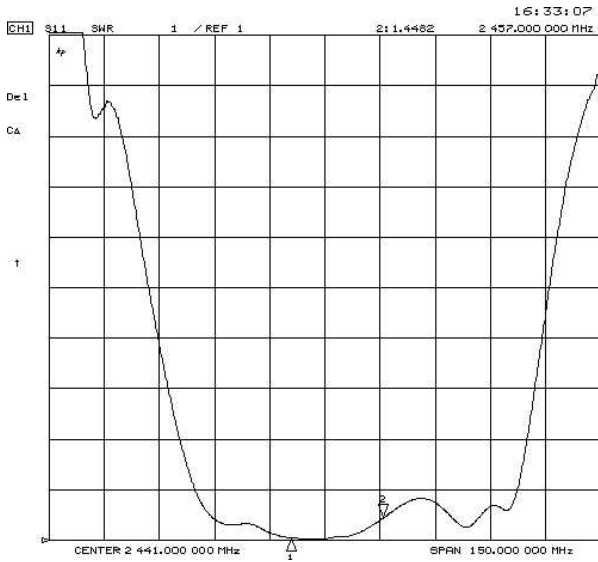
## F. Frequency Characteristics : Transfer function



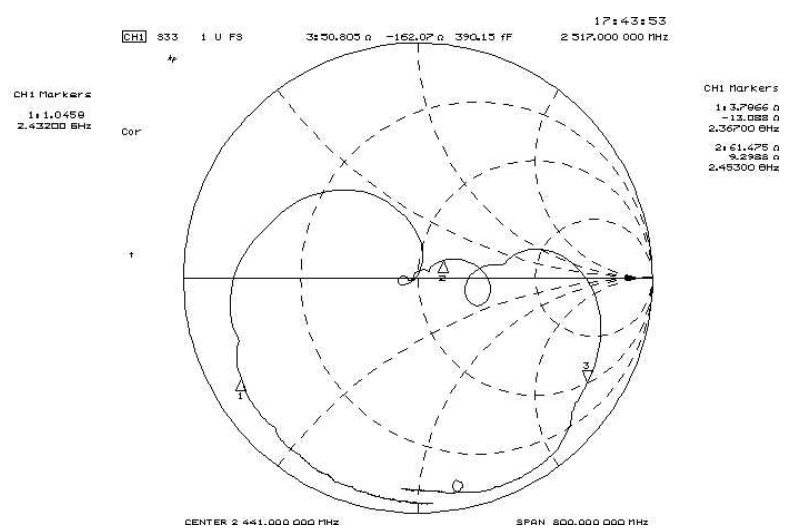
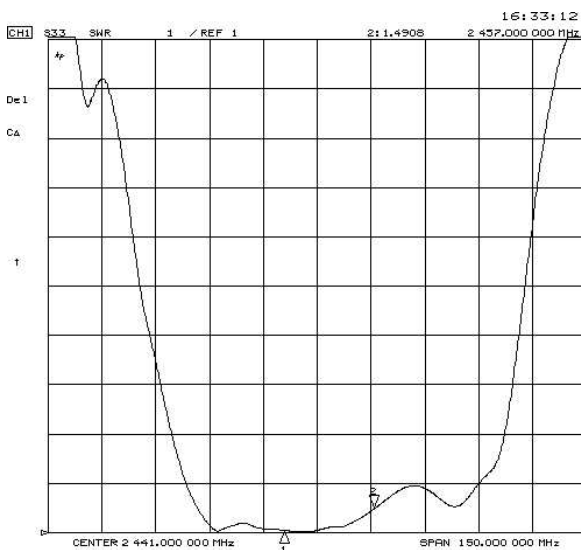


# Reflections Functions :

## S11 VSWR

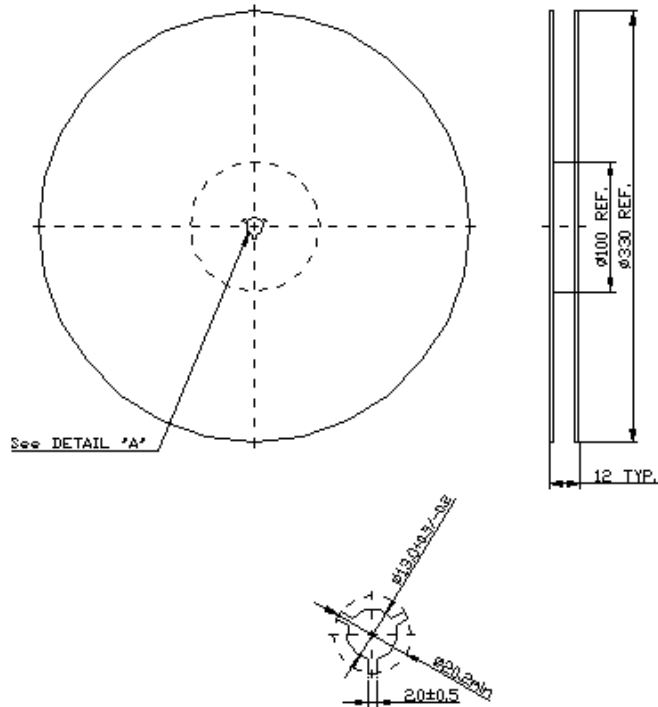


## S22 VSWR

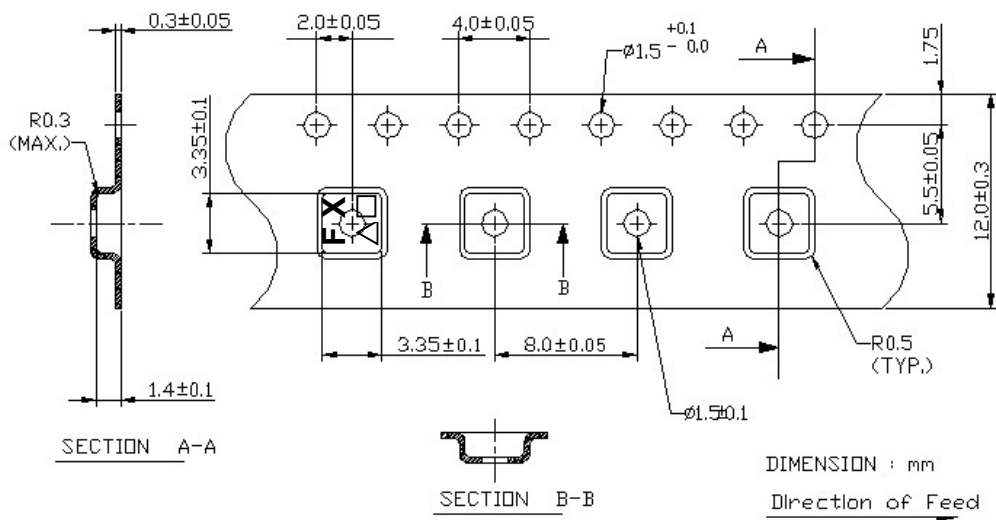


## G. PACKING:

### 1. REEL DIMENSION



### 2. TAPE DIMENSION



**H. RECOMMENDED REFLOW PROFILE :**

