



# 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: Feb, 2, 2007

Product Name: SAW Filter 675 MHz SMD 3.0X3.0 mm

TST Parts No.: TA0616A

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

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

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

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

Date: \_\_\_\_\_ 2, 2, 2007



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## SAW Filter 675MHz

MODEL NO.:TA0616A

REV. NO.:3

### A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: 0°C to +50°C
4. Storage Temperature: -30°C to +85°C

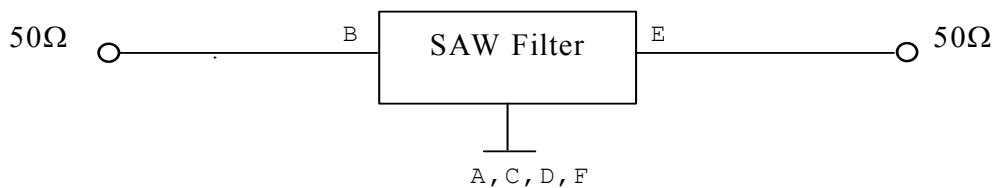
RoHS Compliant  
Lead free  
Lead-free soldering

### B. ELECTRICAL CHARACTERISTICS:

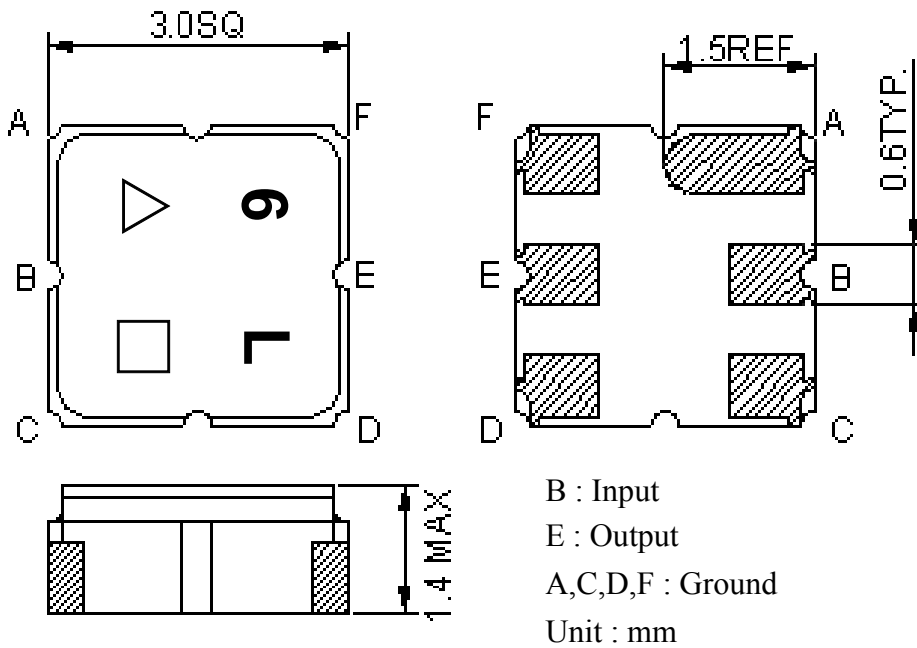
Item	Unit	Min.	Type.	Max.	Note
Center Frequency Fc	MHz	-	675	-	-
Insertion Loss at Center Frequency ILc	dB	-	1.6	2.2	-
VSWR at Center Frequency		-	1.3	2	-
<b>Attenuation (Reference level from ILc)</b>					
608 ~ 614 MHz	dB	20	60	-	-
736 ~ 742 MHz	dB	20	65	-	-
1283 ~ 1289 MHz	dB	45	58	-	-
1411 ~ 1417 MHz	dB	45	55	-	-
1958 ~ 1964 MHz	dB	35	44	-	-
2086 ~ 2092 MHz	dB	33	40	-	-

### C. MEASUREMENT CIRCUIT:

HP Network analyzer



**D.OUTLINE DRAWING:**



△ : Year Code (2006->6, ..., 2009->9)

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

**Note :**

**The base material is ceramic with Au over Ni plating.**

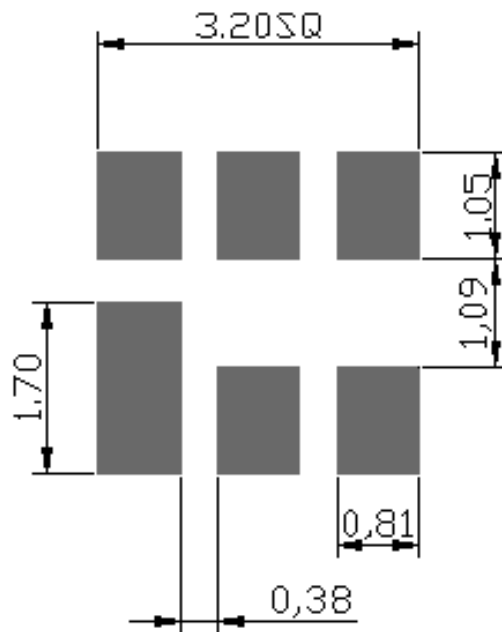
**The plating thicknesses are:**

Electro Ni : 1.27~8.89  $\mu$  m.

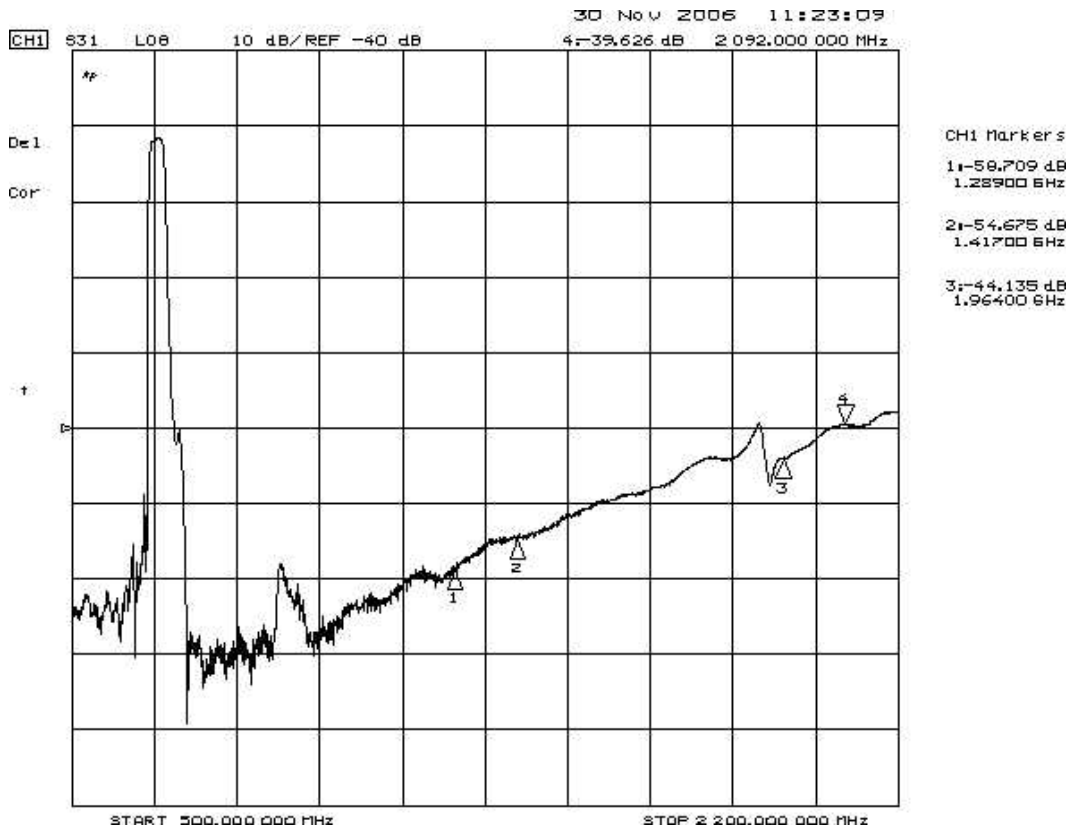
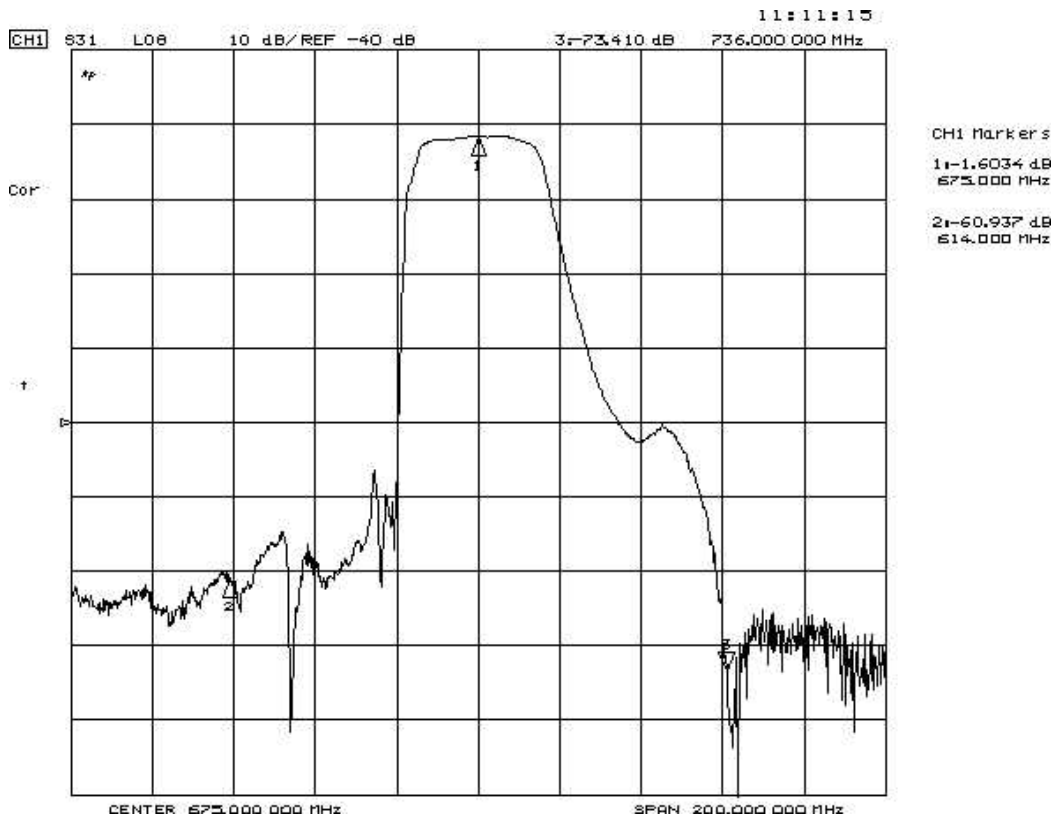
Electro Au : 0.3~1.0  $\mu$  m (solder pads only).

0.3  $\mu$  m Min. (Others)

**E. PCB Footprint:**

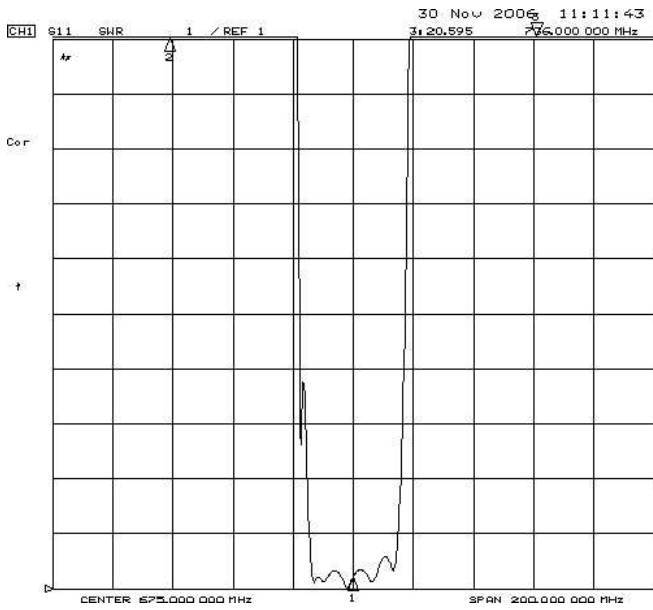


## F. Frequency Characteristics :

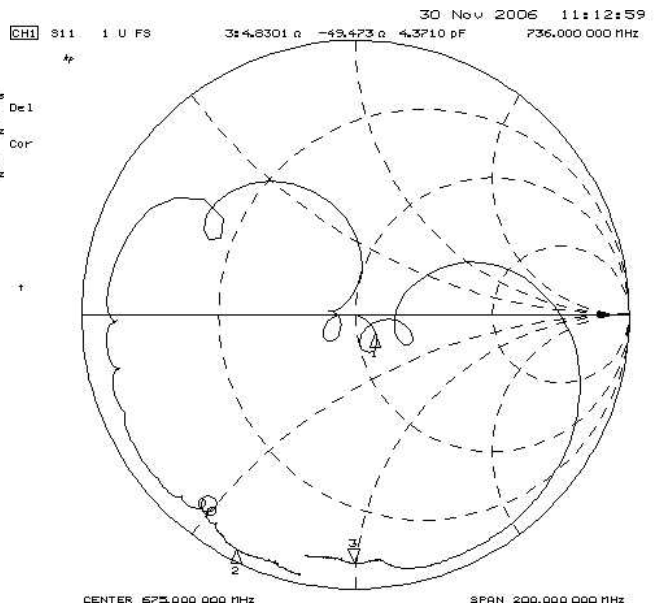


# Reflection Functions :

## S11

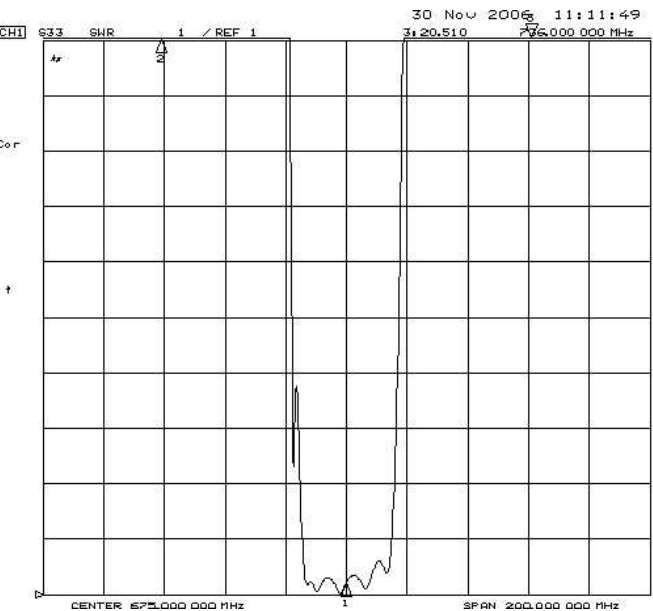


CHI Markers  
 Del  
 1: 1.2236  
 675.000 MHz  
 2: 49.850  
 614.000 MHz

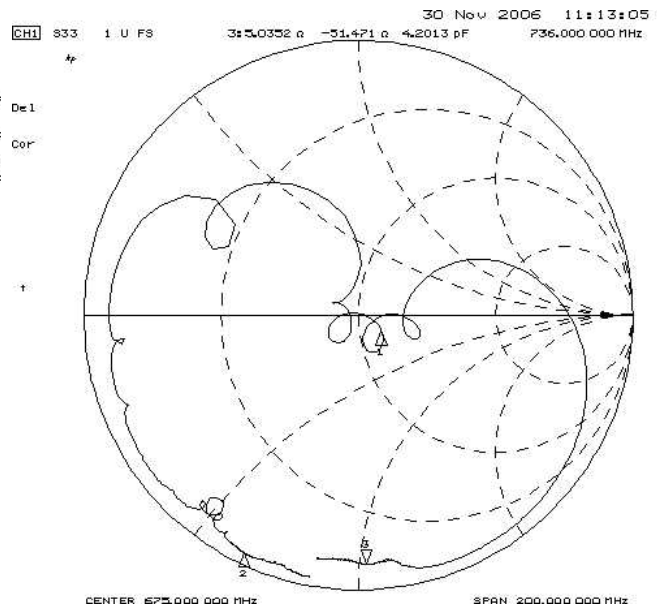


CHI Markers  
 1: 57.334 n  
 -7.7480 n  
 675.000 MHz  
 2: 1.4111 n  
 -30.713 n  
 614.000 MHz

## S22



CHI Markers  
 Del  
 1: 1.2304  
 675.000 MHz  
 2: 50.613  
 614.000 MHz

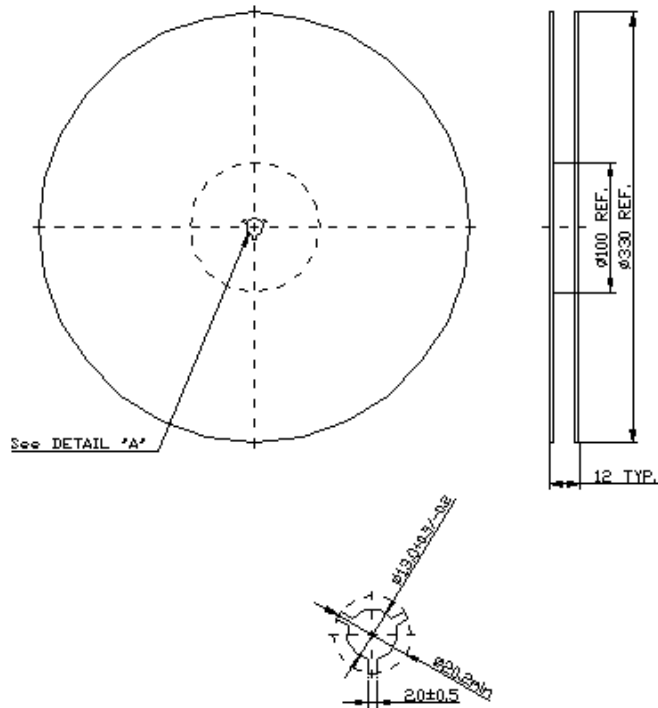


CHI Markers  
 1: 58.762 n  
 -6.8516 n  
 675.000 MHz  
 2: 1.4072 n  
 -31.339 n  
 614.000 MHz

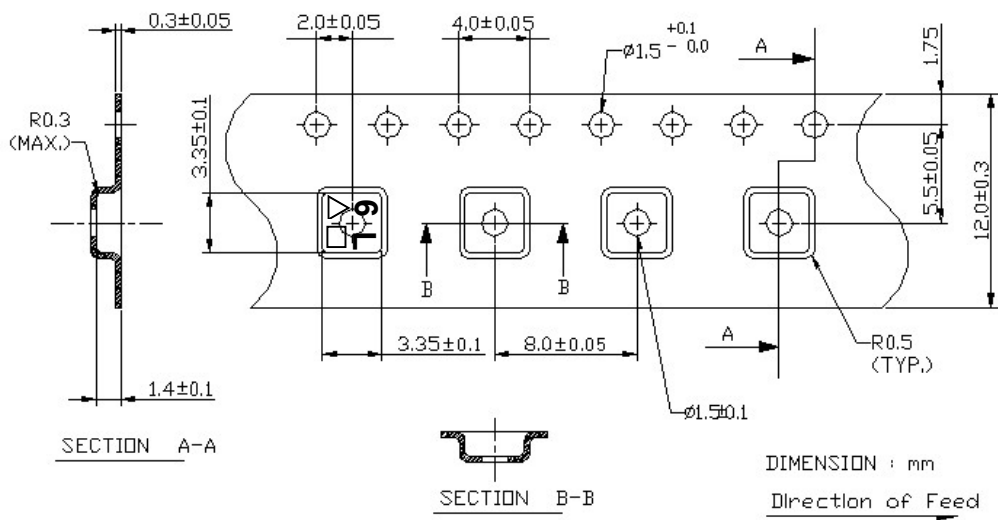
**G. PACKING:**

**1. REEL DIMENSION**

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



**2. TAPE DIMENSION**



**H. RECOMMENDED REFLOW PROFILE :**

