



# 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: Oct., 19, 2004

Product Name: SAW Filter 940.5 MHz SMD 3.0X3.0 mm

TST Parts No.: TA0390A

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

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

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

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

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

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

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

Date: \_\_\_\_\_ 10,19,2004



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## SAW Filter 940.5 MHz

MODEL NO.: TA0390A

REV. NO.:1

### A. MAXIMUM RATING:

1. Operating Temperature: -10°C ~ +75°C
2. Storage Temperature: -40°C ~ +85°C

RoHS Compliant  
Lead free  
Lead-free soldering

### B. Characteristics :

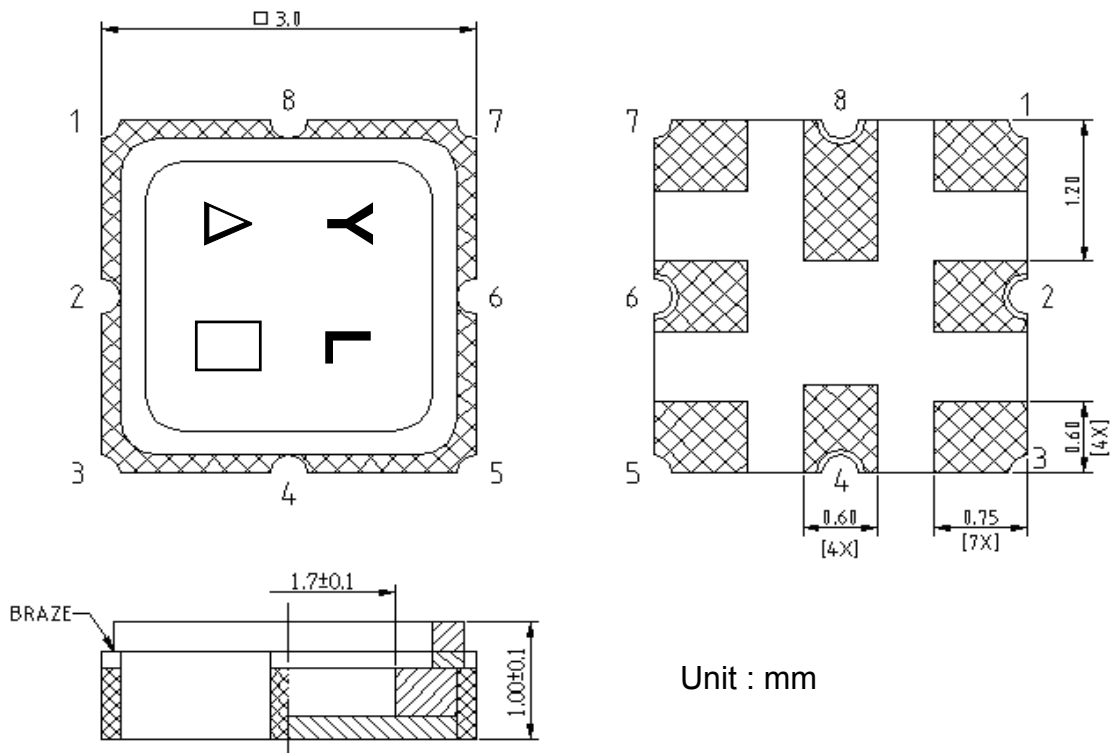
Singled to Balanced operation

Terminating source impedance :  $Z_s = 50 \Omega$

Terminating load impedance :  $Z_L = 150 \Omega // 50 \text{ nH}$

Characteristics			Value			Note
			Min.	Typ.	Max.	
<b>Center frequency</b>	$F_c$	(MHz)	-	940.5	-	-
<b>Insertion loss</b>	( 921~960 MHz) I.L.	(dB)	-	3.2	4.3	-
<b>Ripple</b>	( 921~960 MHz)	(dB)	-	1.3	2.3	-
<b>VSWR</b>	( 921~960 MHz)		-	1.8	2.5	-
<b>Attenuation:</b> ( Reference level from 0 dB)						
0 ~ 880	MHz	(dB)	50	53	-	-
880 ~ 900	MHz	(dB)	28	44	-	-
900 ~ 910	MHz	(dB)	16	36	-	-
980 ~ 1000	MHz	(dB)	20	27	-	-
1000 ~ 1050	MHz	(dB)	28	31	-	-
1050 ~ 1500	MHz	(dB)	50	54	-	-
1500 ~ 2130	MHz	(dB)	45	62	-	-
2130 ~ 3000	MHz	(dB)	40	57	-	-
3000 ~ 4050	MHz	(dB)	35	47	-	-
4050 ~ 5700	MHz	(dB)	23	37	-	-
<b>Symmetry in band</b> (referenced to the matched operating condition)						
<b>Output amplitude balance</b>	( $ S_{31}/S_{21} $ )	(dB)	-1.8	0	1.8	
( 921~960 MHz)						
<b>Output phase balance</b>	( $\Phi(S_{31})-\Phi(S_{21})+180^\circ$ )	degree	-12	0	12	
( 921~960 MHz)						

**C. OUTLINE DRAWING:**

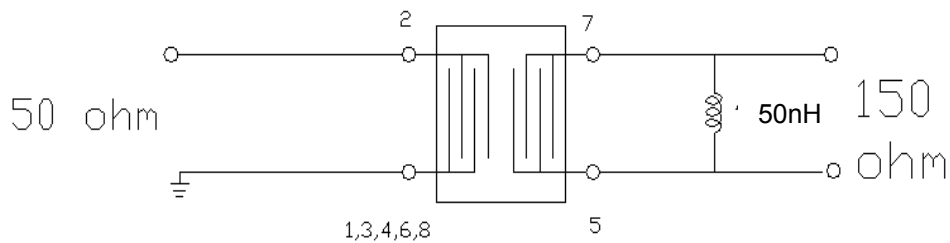


Unit : mm

**Pin configuration**

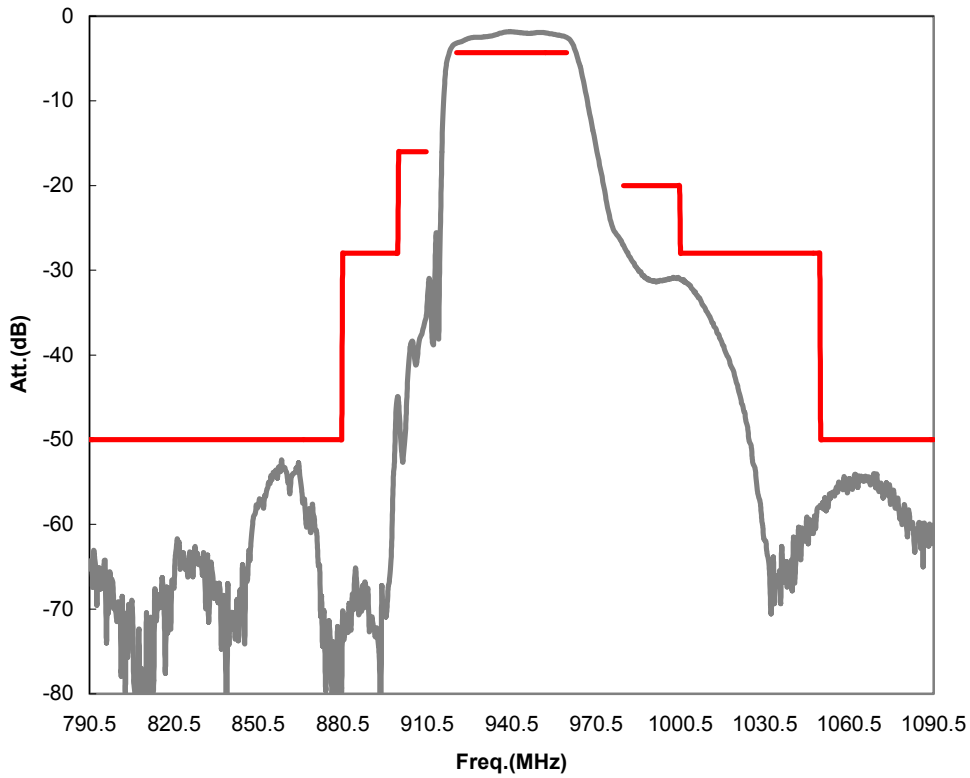
- 2            Input, unbalanced
- 1,3        Input ground
- 5,7        Output balanced
- 1,3,4,8,6 case ground
- △         Year code
- Date code

**D. MEASUREMENT CIRCUIT:**

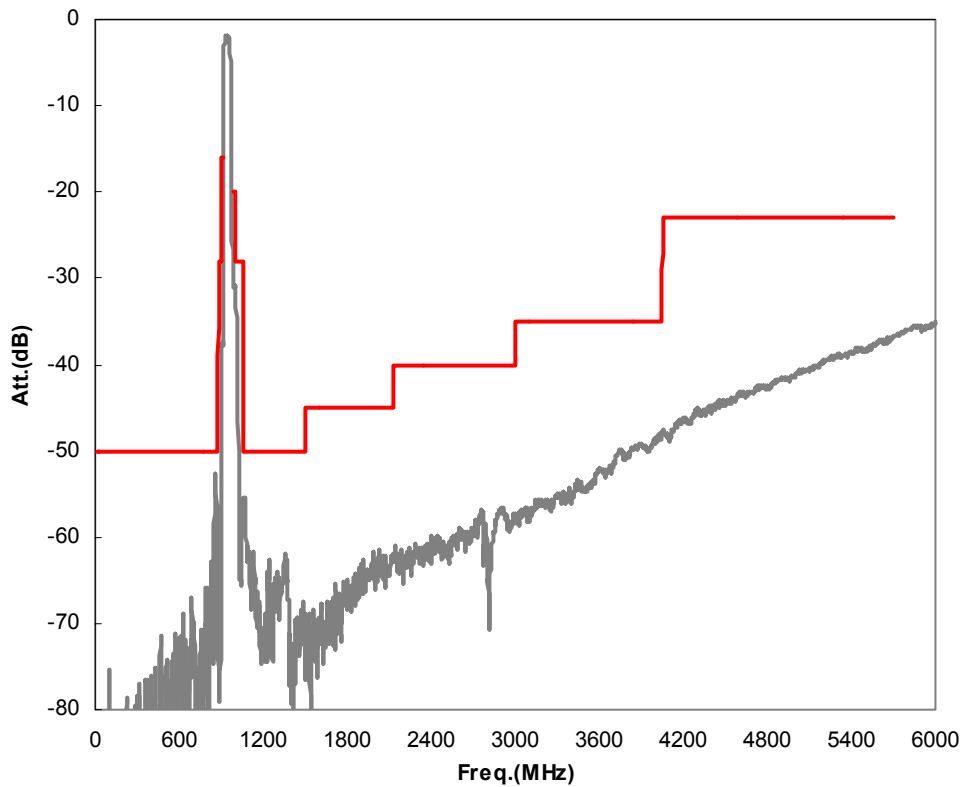


## E. FREQUENCY CHARACTERISTICS:

### 1. Transfer function (25 °C)

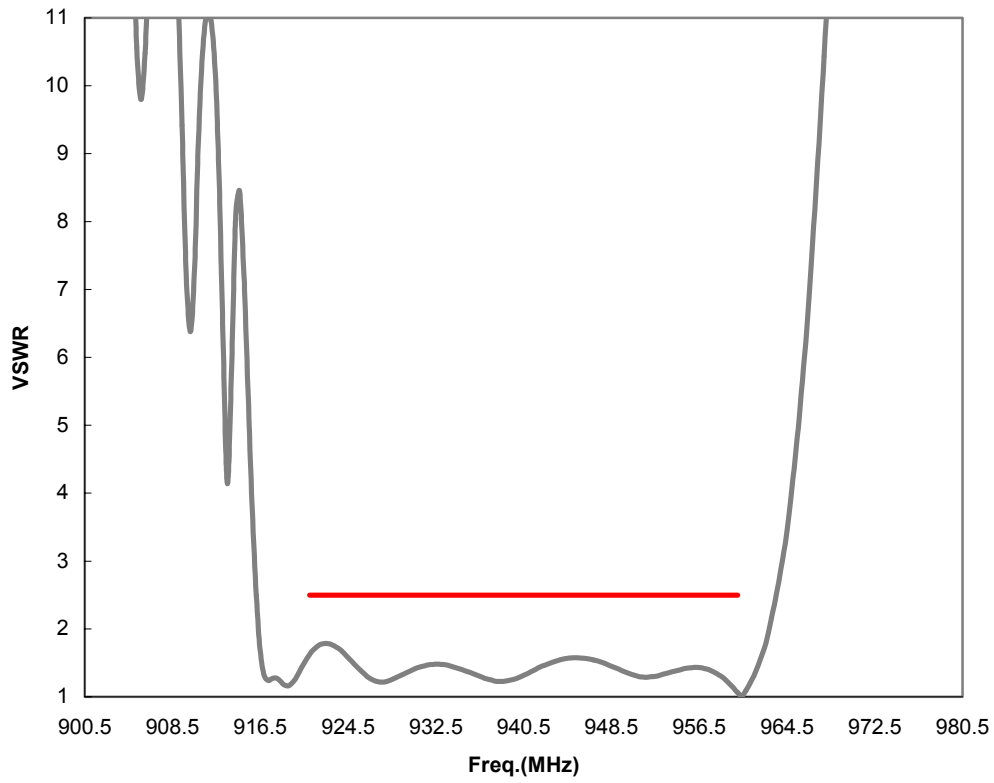


(wideband)

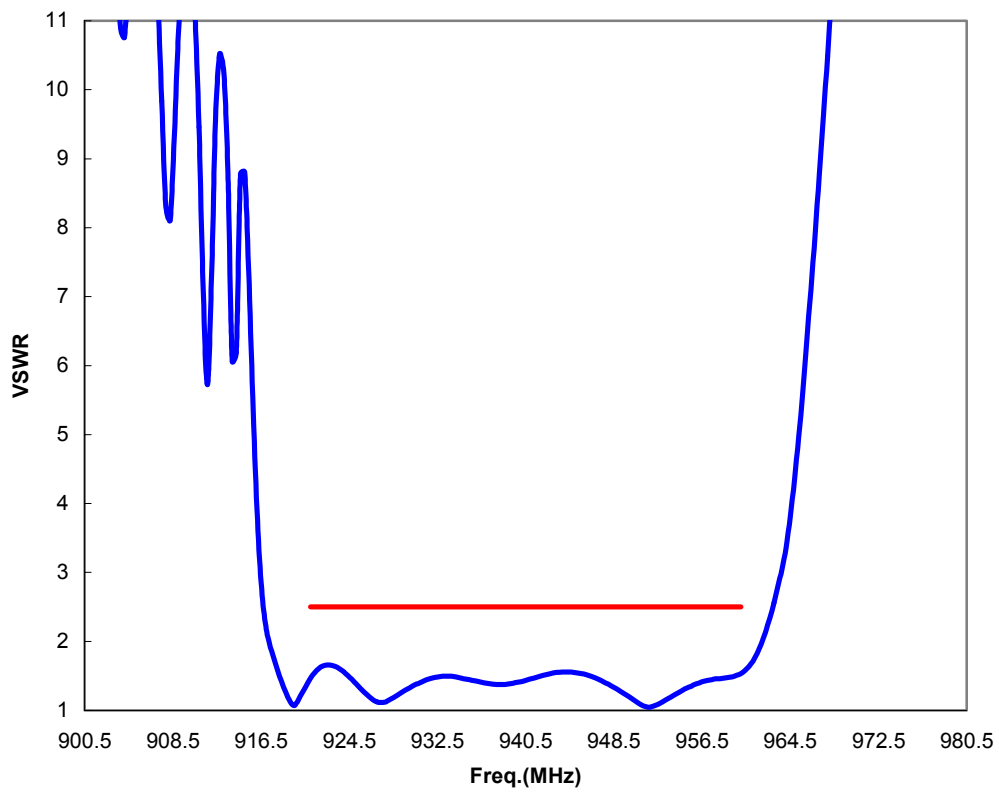


## 2. VSWR (25 °C)

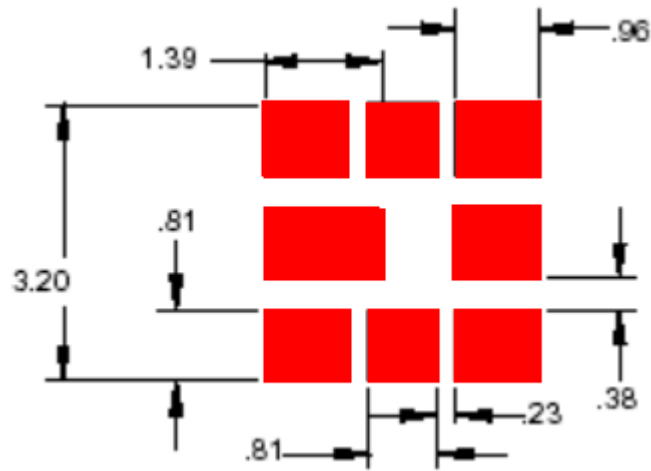
### Input



### Output

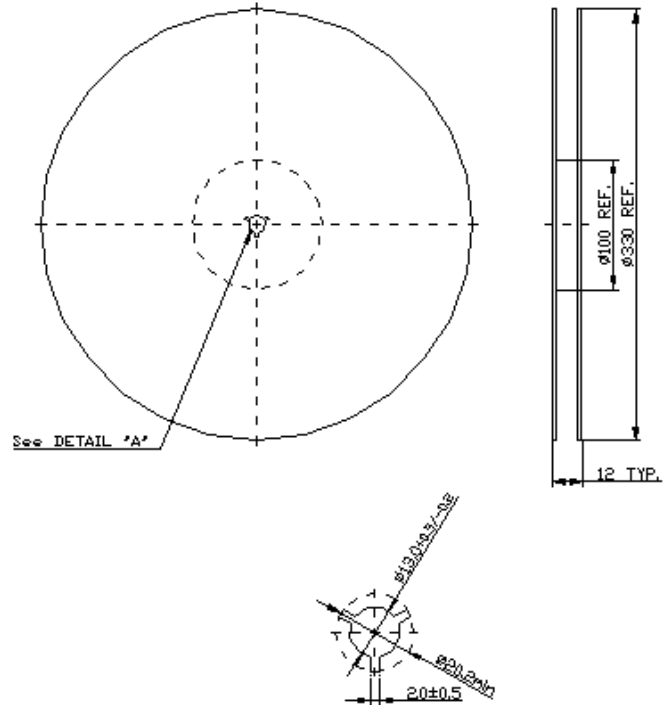


F. PCB Footprint:



**G. PACKING:**

**1. REEL DIMENSION**



**2. TAPE DIMENSION**

