



TAI-SAW TECHNOLOGY CO., LTD.

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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 :

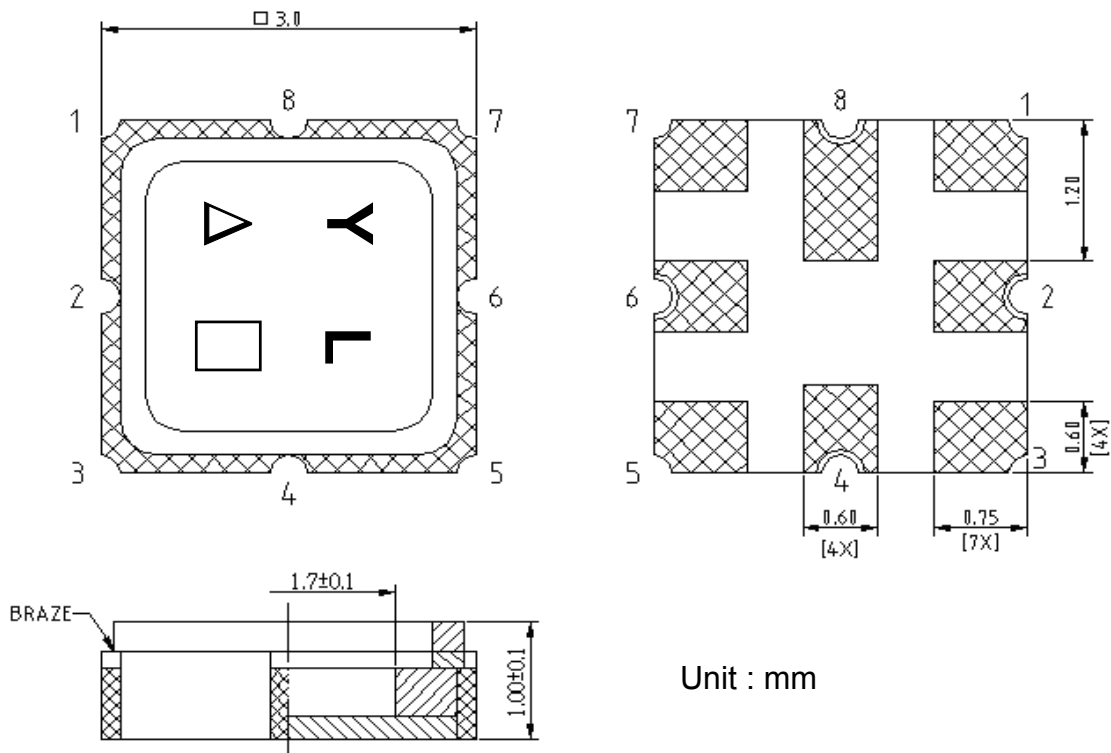
Singled to Balanced operation

Terminating source impedance : $Z_s = 50 \Omega$

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

Characteristics			Value			Note
			Min.	Typ.	Max.	
Center frequency	F_c	(MHz)	-	940.5	-	-
Insertion loss	(921~960 MHz) I.L.	(dB)	-	3.2	4.3	-
Ripple	(921~960 MHz)	(dB)	-	1.3	2.3	-
VSWR	(921~960 MHz)		-	1.8	2.5	-
Attenuation: (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	-	-
Symmetry in band (referenced to the matched operating condition)						
Output amplitude balance	($ S_{31}/S_{21} $)	(dB)	-1.8	0	1.8	
(921~960 MHz)						
Output phase balance	($\Phi(S_{31})-\Phi(S_{21})+180^\circ$)	degree	-12	0	12	
(921~960 MHz)						

C. OUTLINE DRAWING:

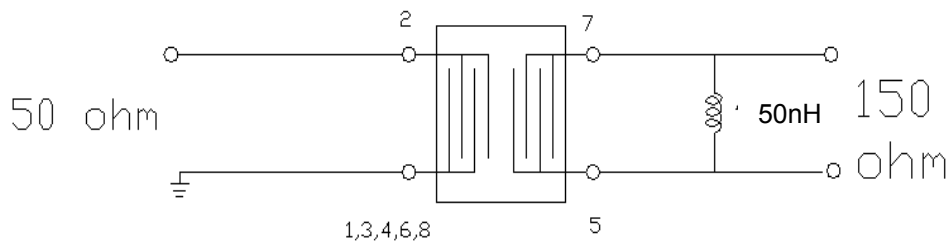


Unit : mm

Pin configuration

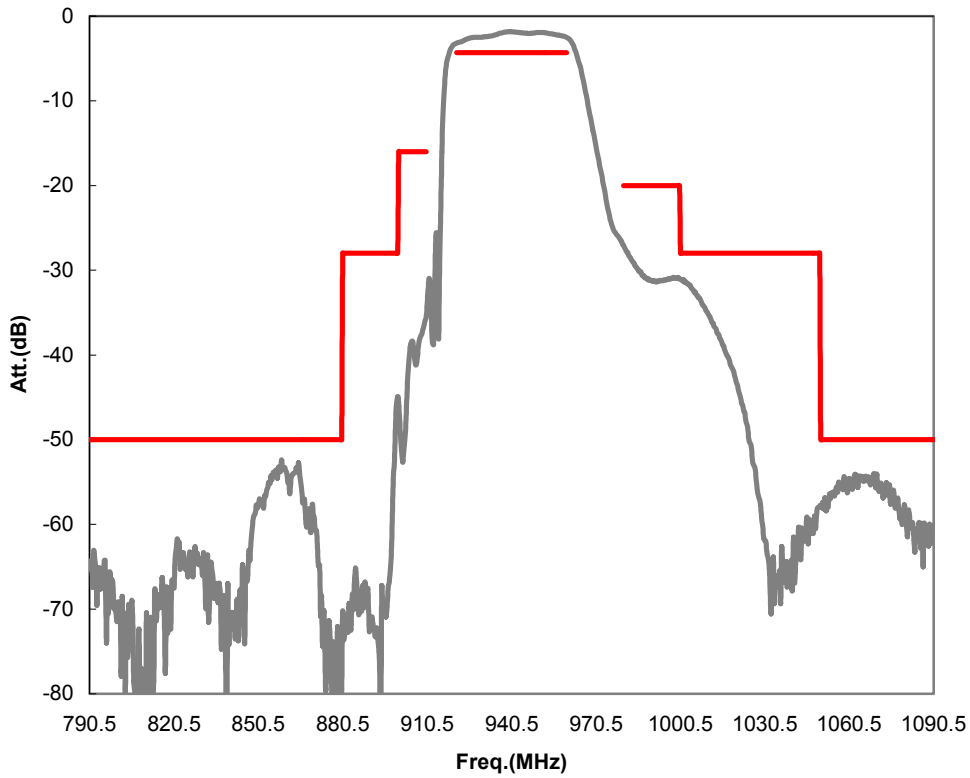
- 2 Input, unbalanced
- 1,3 Input ground
- 5,7 Output balanced
- 1,3,4,8,6 case ground
- △ Year code
- Date code

D. MEASUREMENT CIRCUIT:

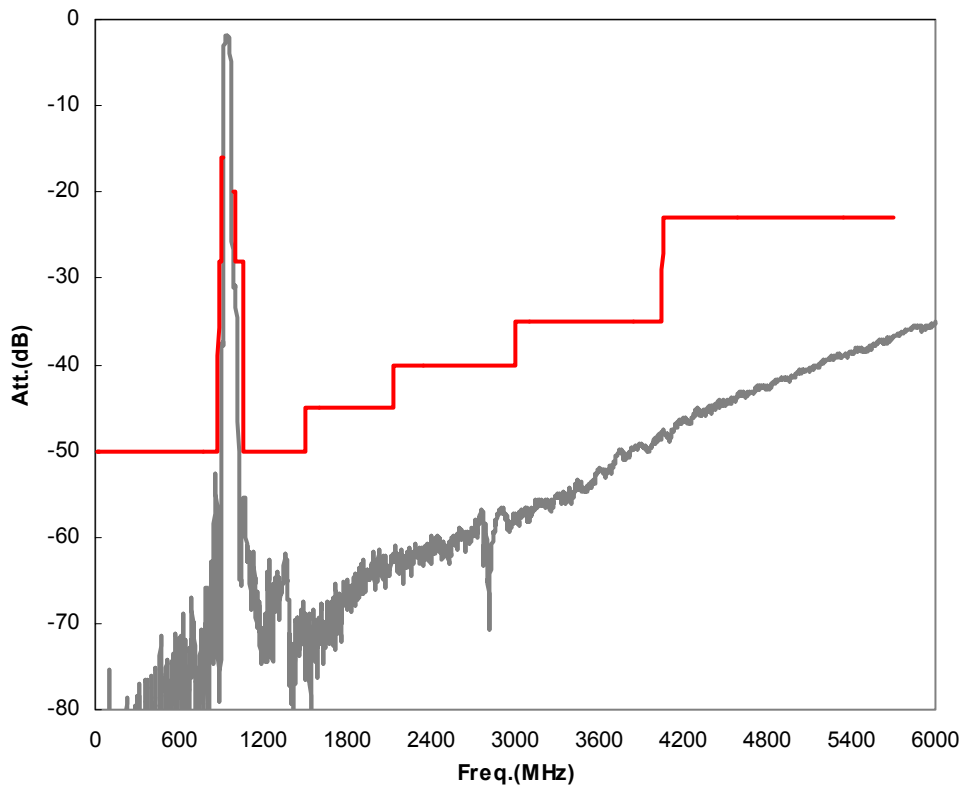


E. FREQUENCY CHARACTERISTICS:

1. Transfer function (25 °C)

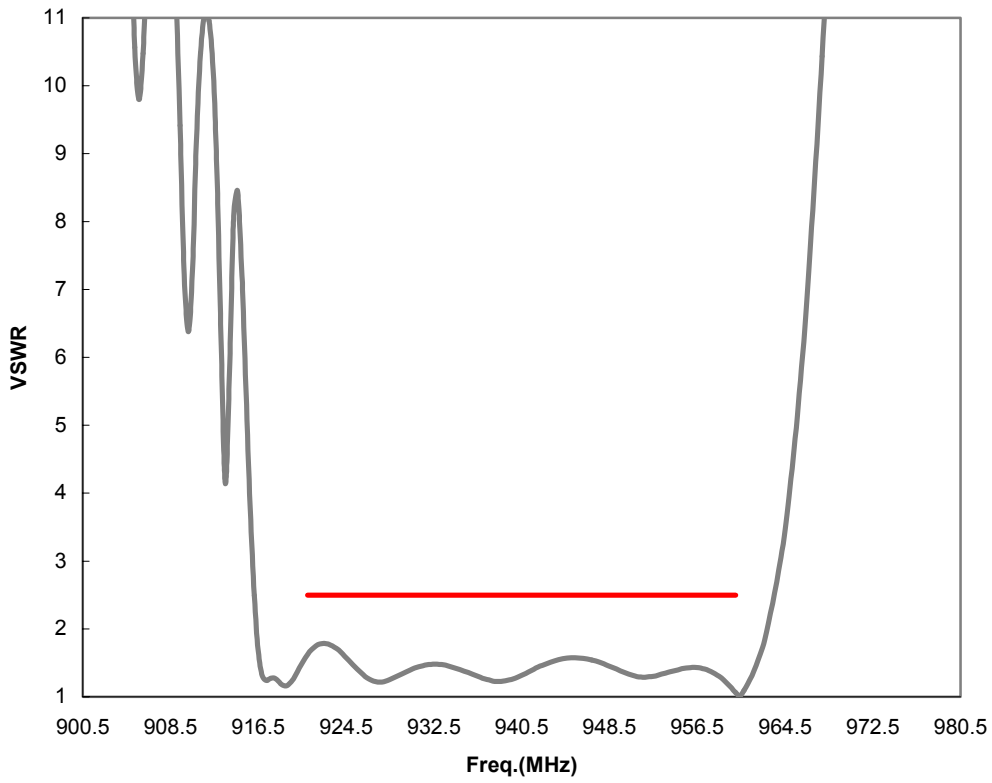


(wideband)

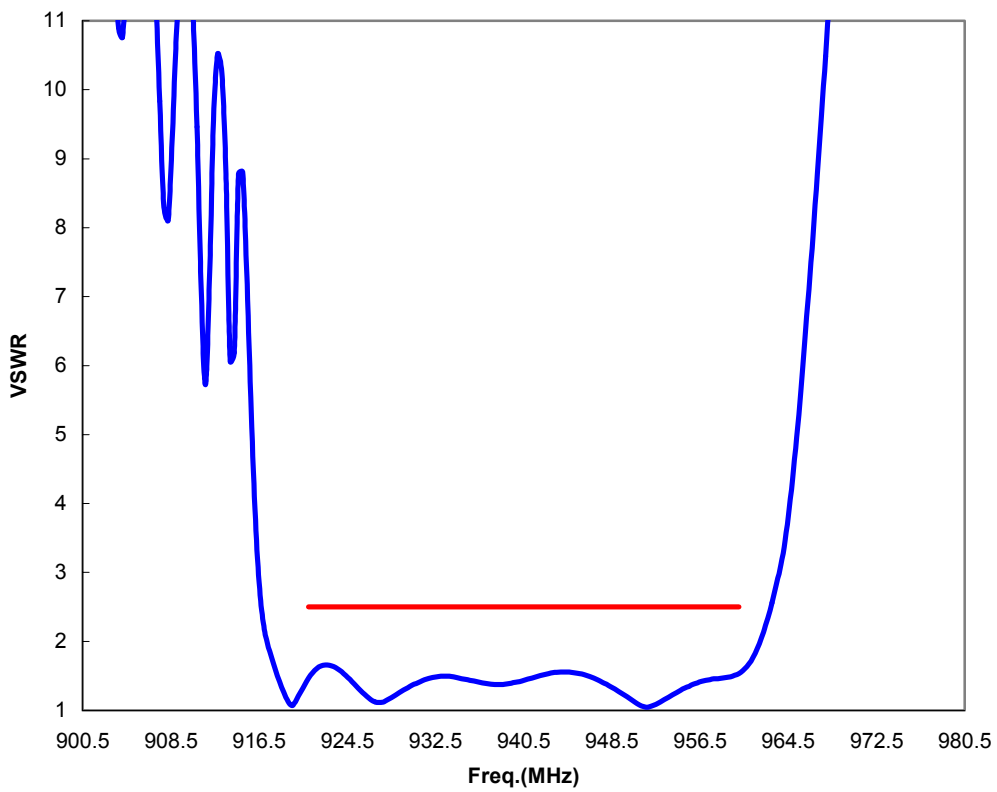


2. VSWR (25 °C)

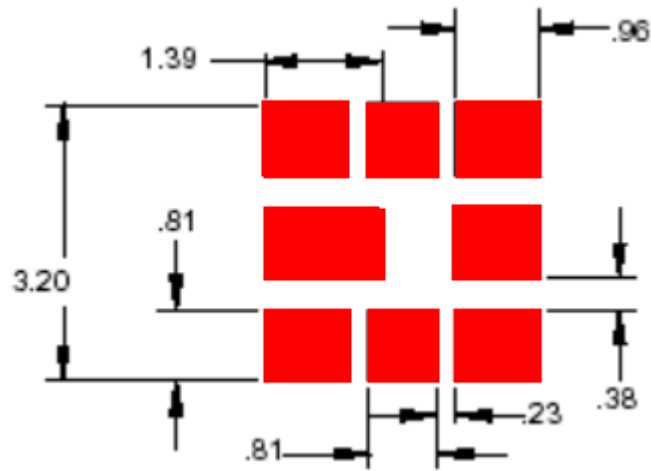
Input



Output

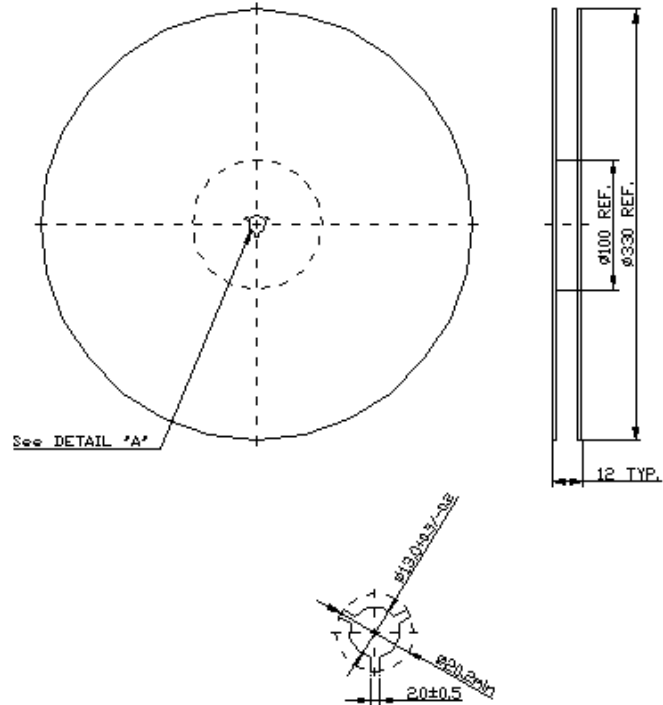


F. PCB Footprint:



G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

