



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date: March, 11, 2003

Product Name: SAW Filter 942.5 MHz for Mobile Communication

TST Parts No.: TA0230A

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Bob Chau

Approval by: _____ Francis Chen

Date: _____ 3,11,2003



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SAW Filter 942.5 MHz for Mobile Communication

MODEL NO.: TA0230A

REV. NO.:2

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 :

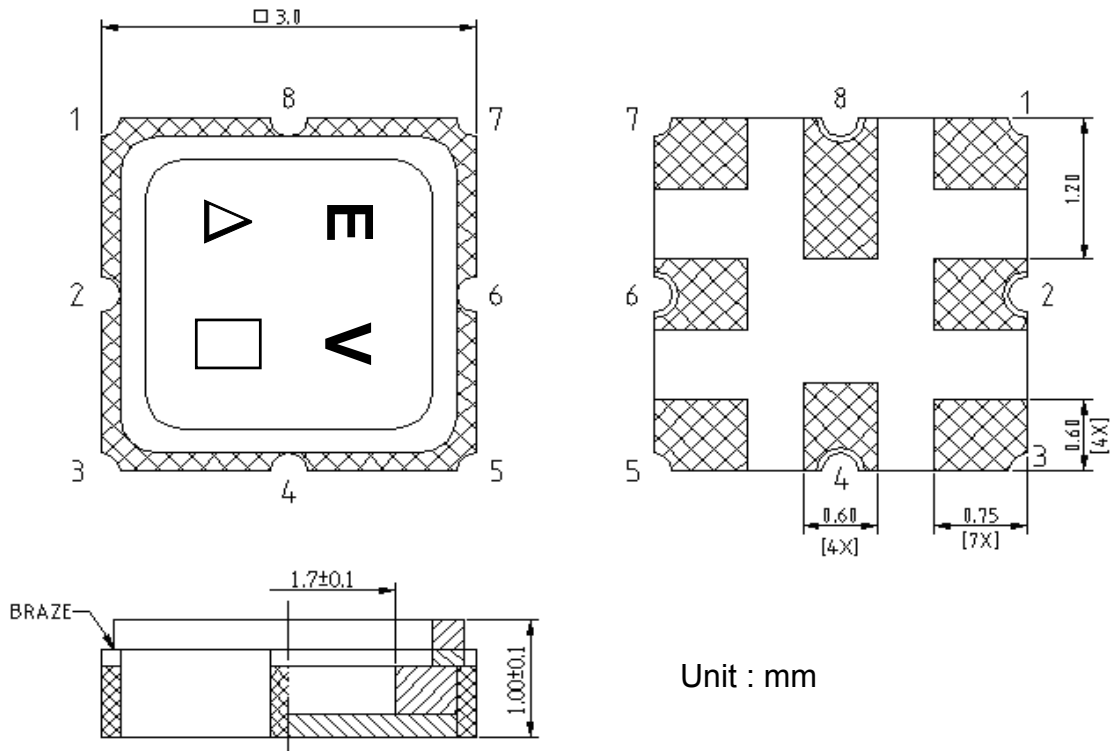
Singled to Balanced operation

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)	-	942.5	-	-
Insertion loss	(925~960 MHz) I.L.	(dB)	-	2.8	3.8	-
Ripple	(925~960 MHz)	(dB)	-	1.0	2.0	-
VSWR	(925~960 MHz)		-	2.0	2.5	-
Attenuation: (Reference level from 0 dB)						
0 ~ 880	MHz	(dB)	50	52	-	-
880 ~ 905	MHz	(dB)	28	44	-	-
905 ~ 915	MHz	(dB)	16	27	-	-
980 ~ 1000	MHz	(dB)	20	27	-	-
1000 ~ 1050	MHz	(dB)	28	32	-	-
1050 ~ 1500	MHz	(dB)	50	54	-	-
1500 ~ 2130	MHz	(dB)	45	56	-	-
2130 ~ 3000	MHz	(dB)	40	55	-	-
3000 ~ 4050	MHz	(dB)	35	52	-	-
4050 ~ 5700	MHz	(dB)	23	36	-	-
Symmetry in band (referenced to the matched operating condition)						
Output amplitude balance	($ S_{31}/S_{21} $)	(dB)	-1.5	0	1.5	
(925~960 MHz)						
Output phase balance	($\Phi(S_{31})-\Phi(S_{21})+180^\circ$)	degree	-12	0	12	
(925~960 MHz)						

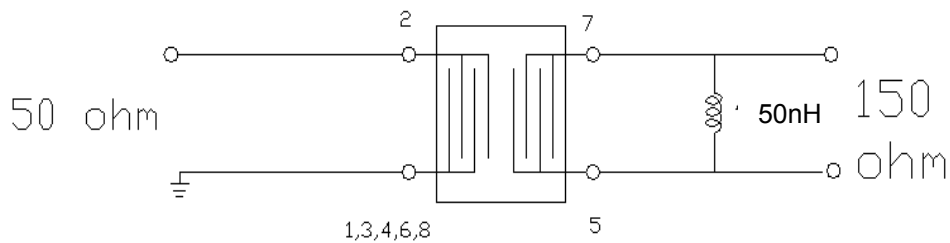
C. OUTLINE DRAWING:



Pin configuration

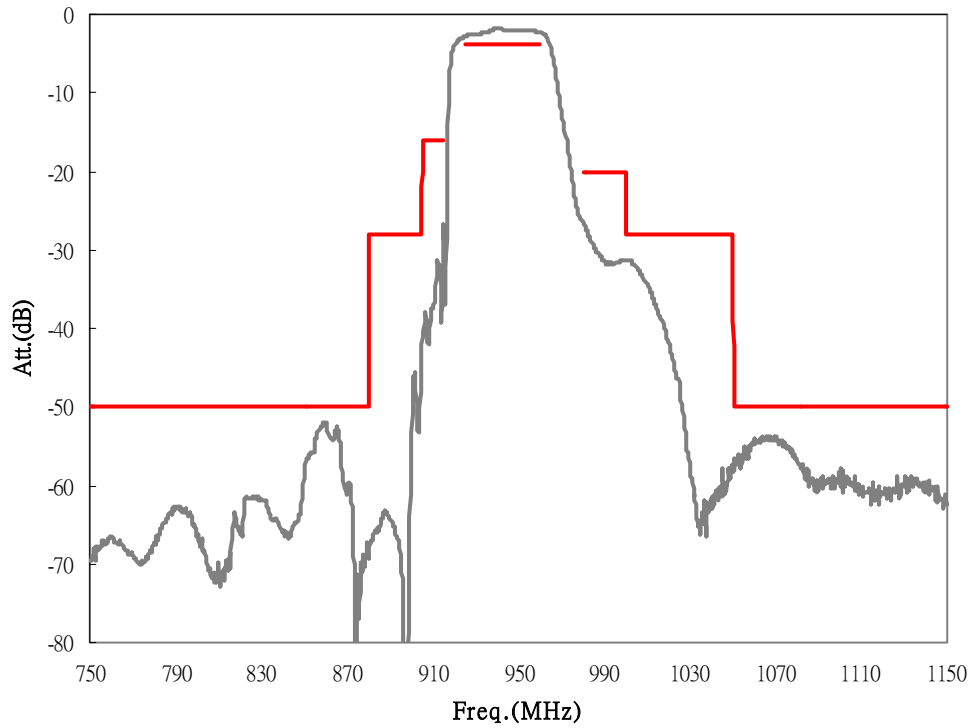
- 2 Input, unbalanced
- 1,3 Input ground
- 5,7 Output balanced
- 1,3,4,8,6 case ground
- △ Year code
- Date code

D. MEASUREMENT CIRCUIT:

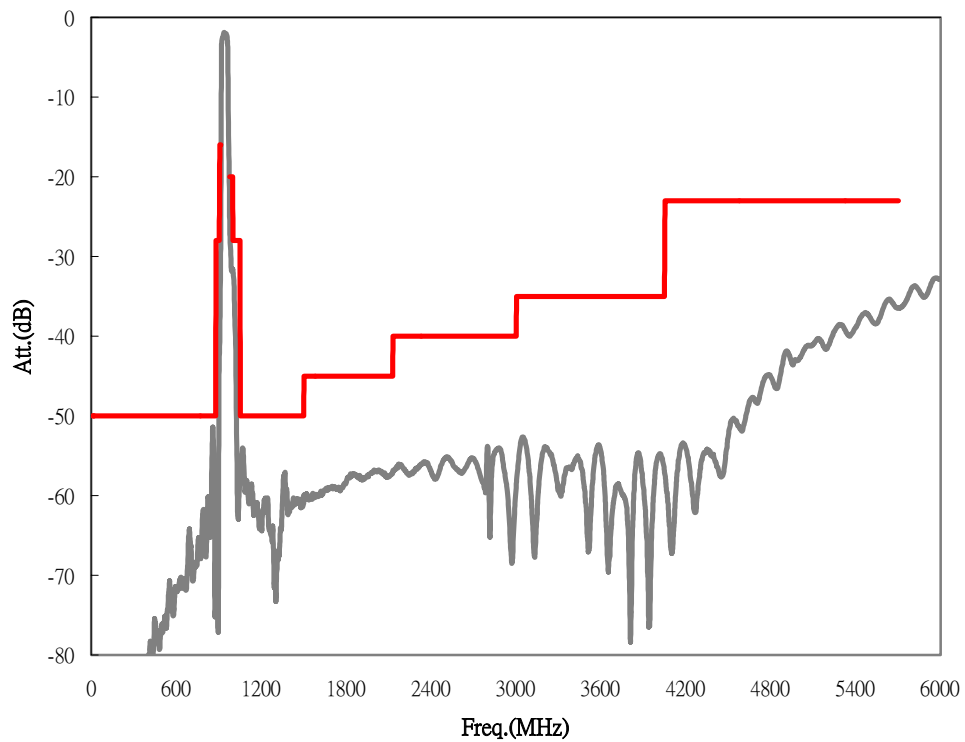


E. FREQUENCY CHARACTERISTICS:

1. Transfer function (25 °C)

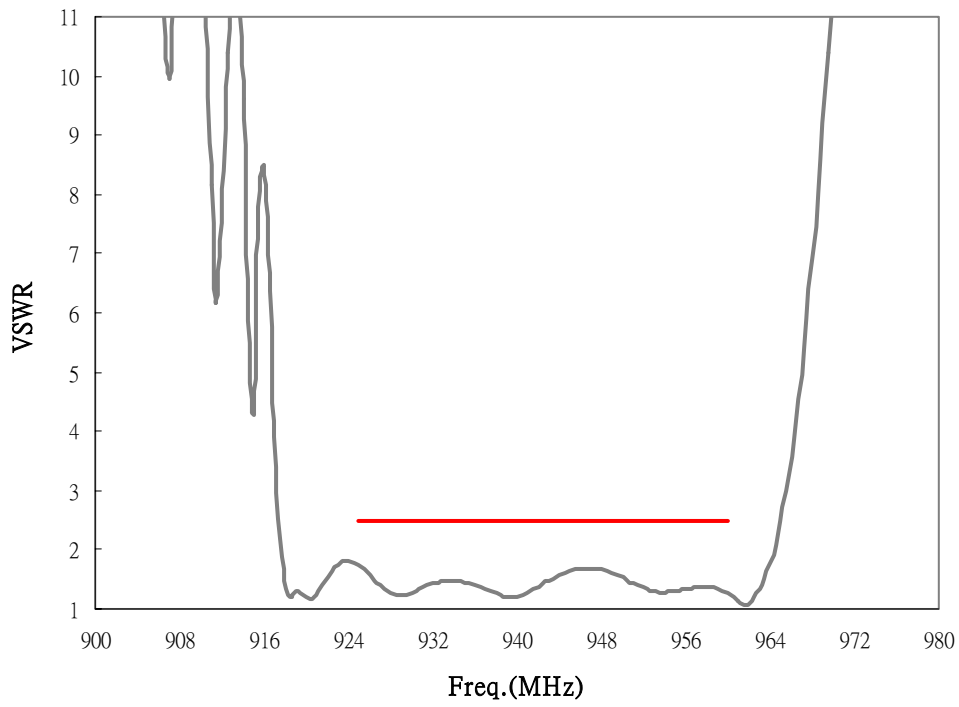


(wideband)

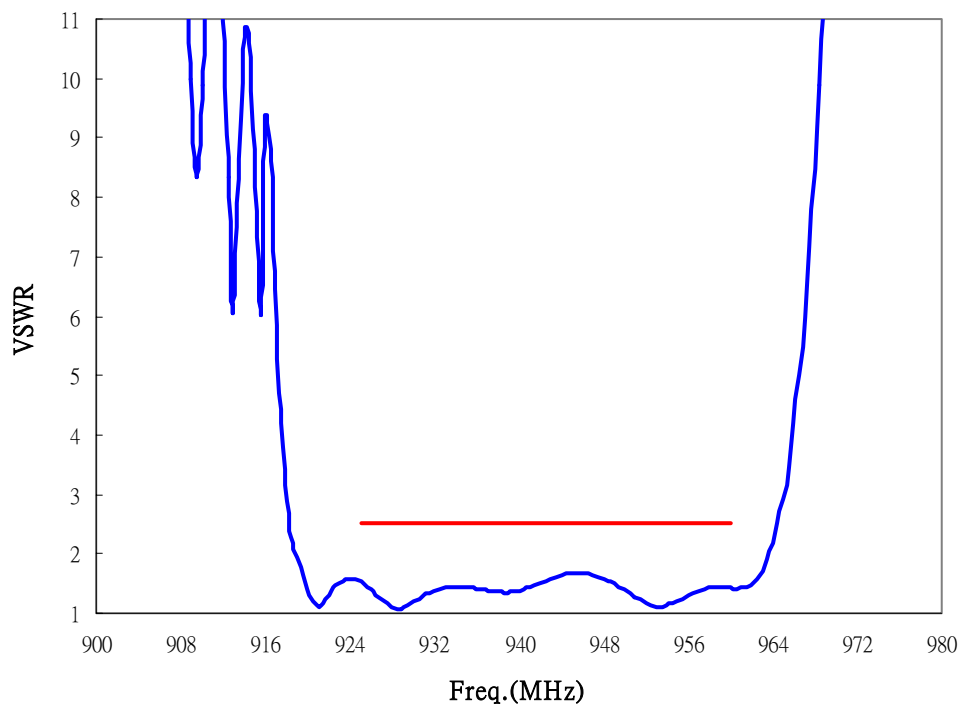


2. VSWR (25 °C)

Input

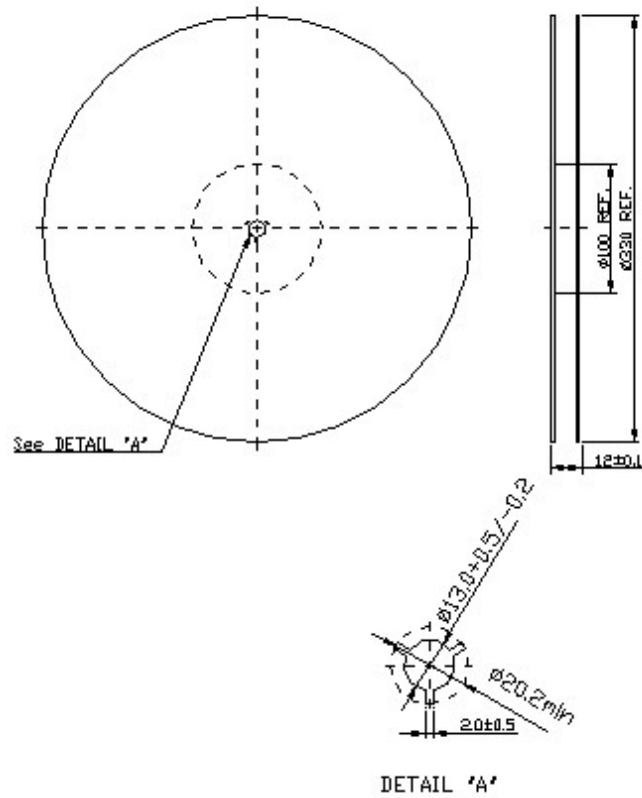


Output



F. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

