



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date: Dec,10, 2004

Product Name: SAW Filter 1950 MHz for Mobile Communication

TST Parts No.: TA0382A

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Bob Chau

Approval by: _____ Francis Chen

Date: _____ Dec,10,2004



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SAW Filter 1950 MHz for Mobile Communication

MODEL NO.: TA0382A

REV. NO.:1

A. MAXIMUM RATING:

1. Operating Temperature: -10°C ~ +85°C
2. Storage Temperature: -40°C ~ +95°C

RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS :

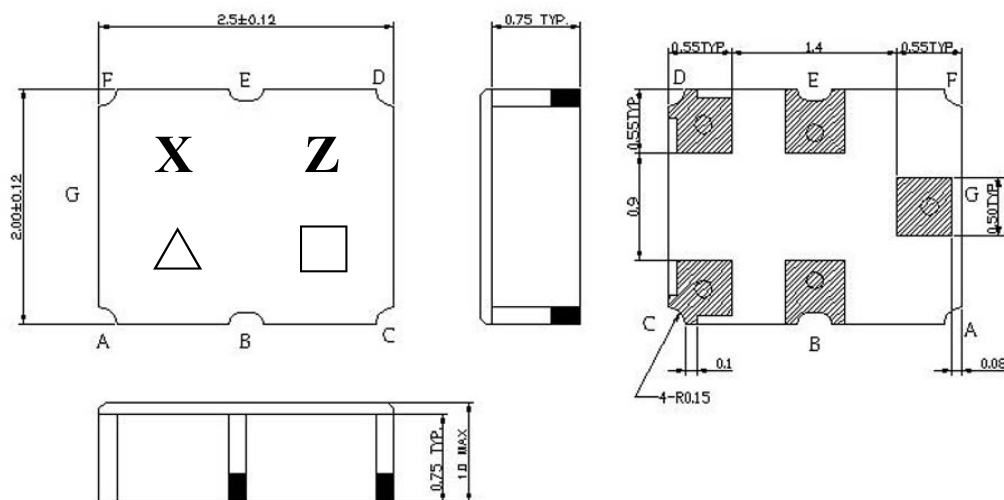
Balanced to Singled operation

Terminating source impedance : $Z_s = 200 \Omega // 18 \text{ nH}$

Terminating load impedance : $Z_L = 50 \Omega$

Item	Value			Note
	Min.	Typ.	Max.	
Center frequency F_c MHz	-	1950	-	-
Insertion loss(1920~1980 MHz) I.L. (dB)	-	2.6	4.0	-
Ripple (1920~1980 MHz) (dB)	-	0.5	1.8	-
Input VSWR (1920~1980 MHz)	-	1.8	2.4	-
Output VSWR (1920~1980 MHz)	-	2.0	2.4	-
Attenuation: (Reference level from 0 dB)				
0 ~ 1805 MHz (dB)	20	30	-	-
1805 ~ 1860 MHz (dB)	22	36	-	-
1860 ~ 1880 MHz (dB)	15	21	-	-
2110 ~ 2170 MHz (dB)	20	25	-	-
2170 ~ 2670 MHz (dB)	25	38	-	-
2680 ~ 2740 MHz (dB)	20	39	-	-
3840 ~ 3960 MHz (dB)	15	52	-	-
5760 ~ 5940 MHz (dB)	15	44	-	-
Symmetry in band (referenced to the matched operating condition)				
$ S_{21} / S_{31} $ (1920~1980 MHz) (dB)	-2.2	0	2.2	-
$\Phi(S_{21})-\Phi(S_{31})+180^\circ$ (1920~1980 MHz) deg	-18	0	18	-

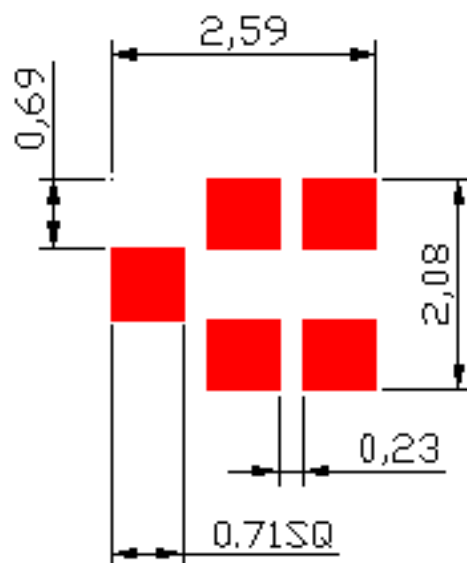
C. OUTLINE DRAWING:



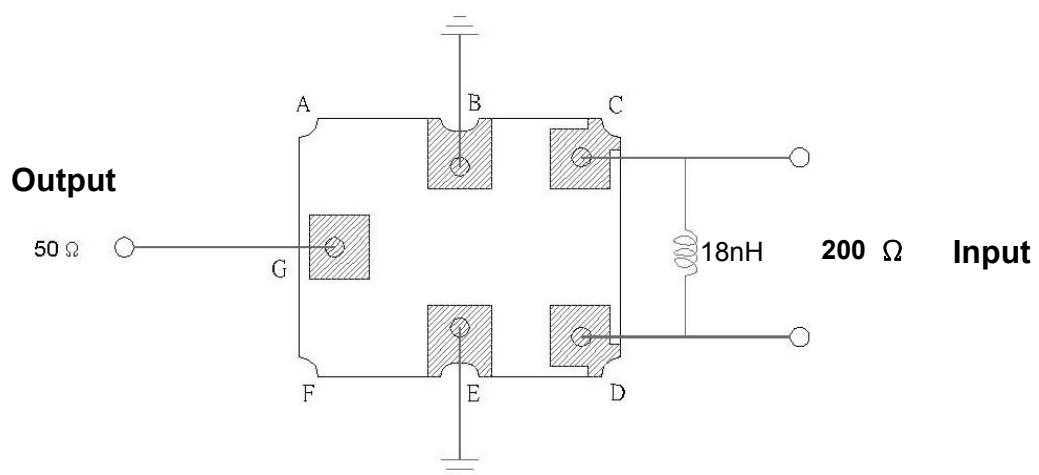
Pin configuration

- G : Unbalance output
- C,D : Balance input
- B,E : Ground
- △ : Year code (2004->4, 2005->5,..., 2009->9)
- : Date code
- Unit : mm

D. PCB Footprint:

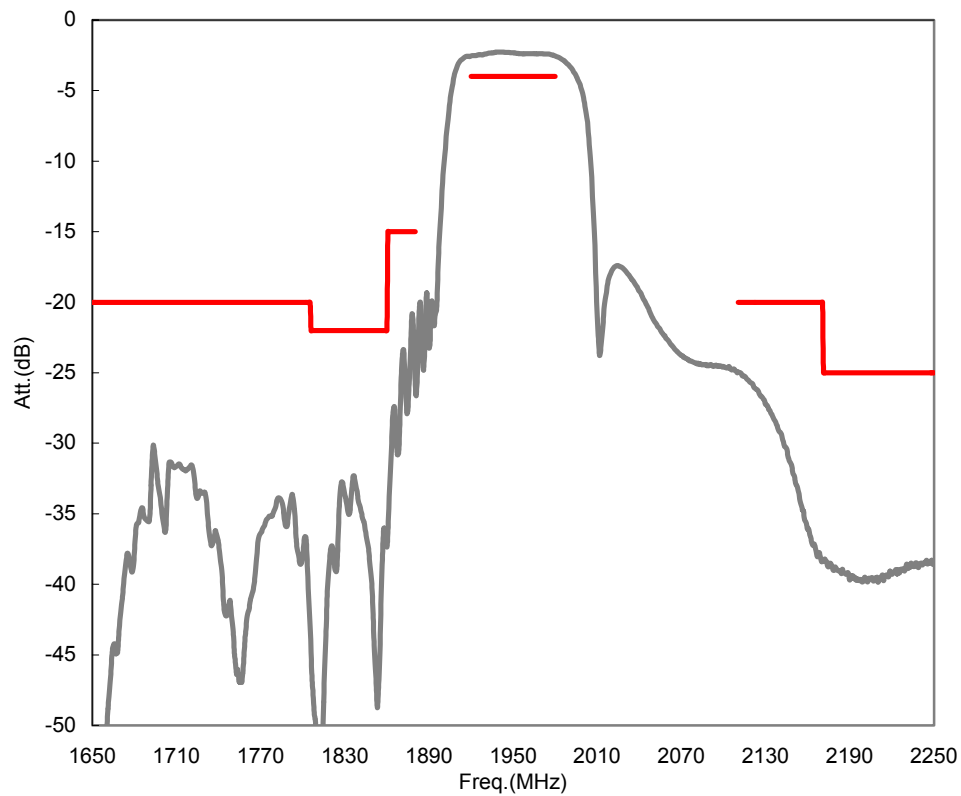


E. MEASUREMENT CIRCUIT:

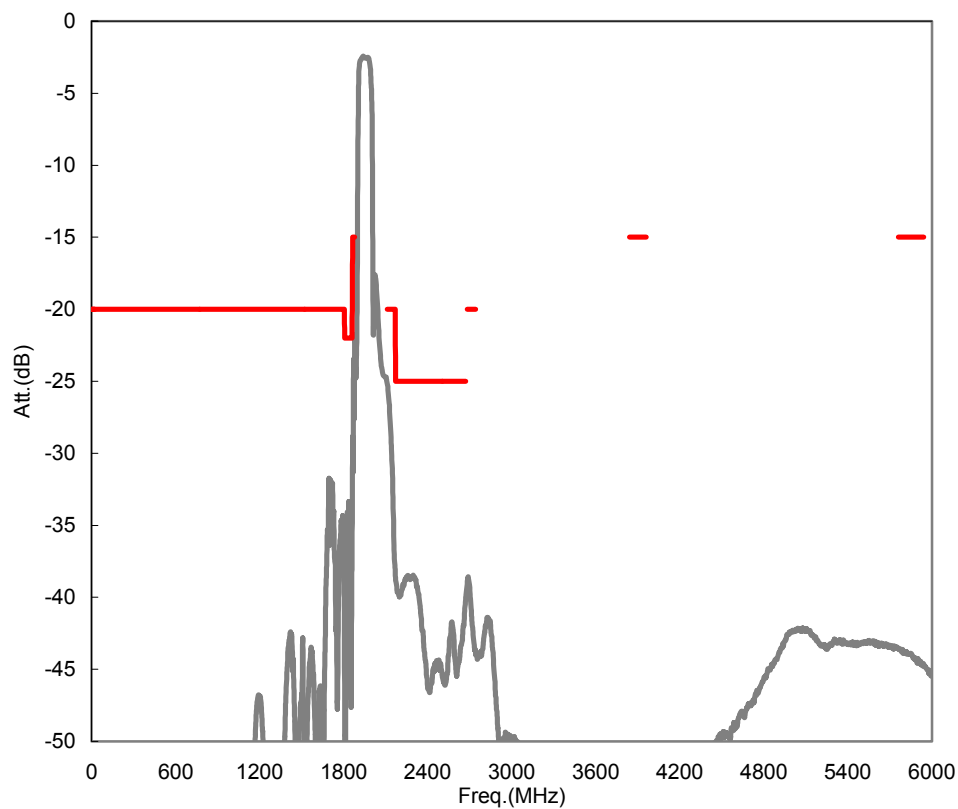


F. FREQUENCY CHARACTERISTICS:

1. Transfer function (25 °C)

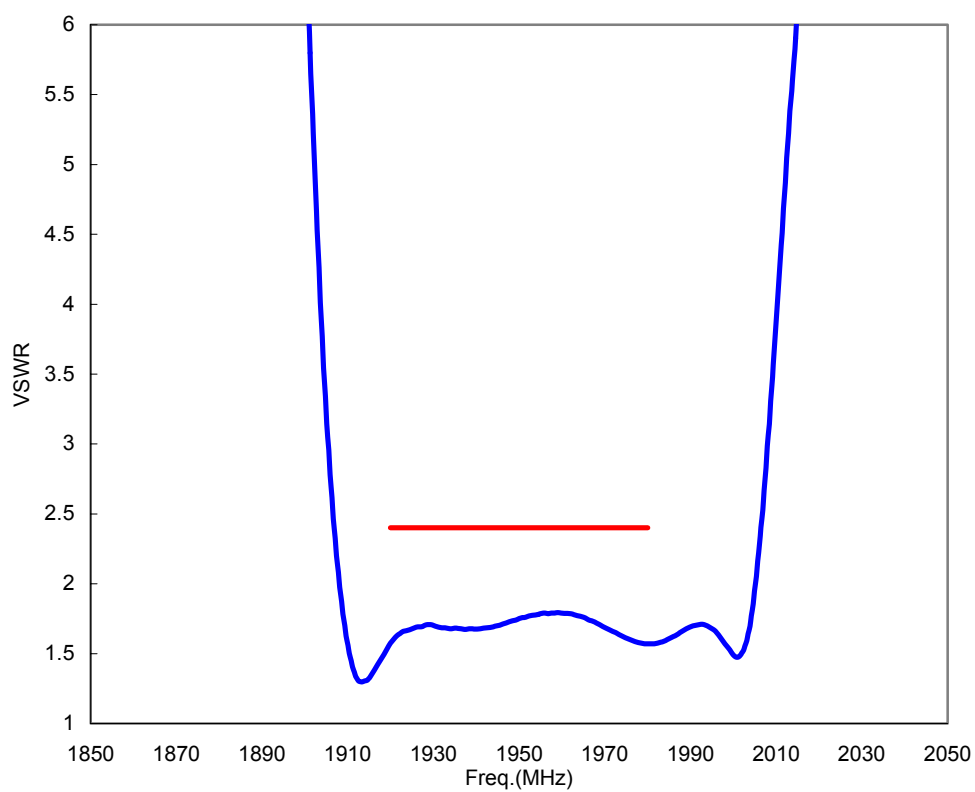


(wideband)

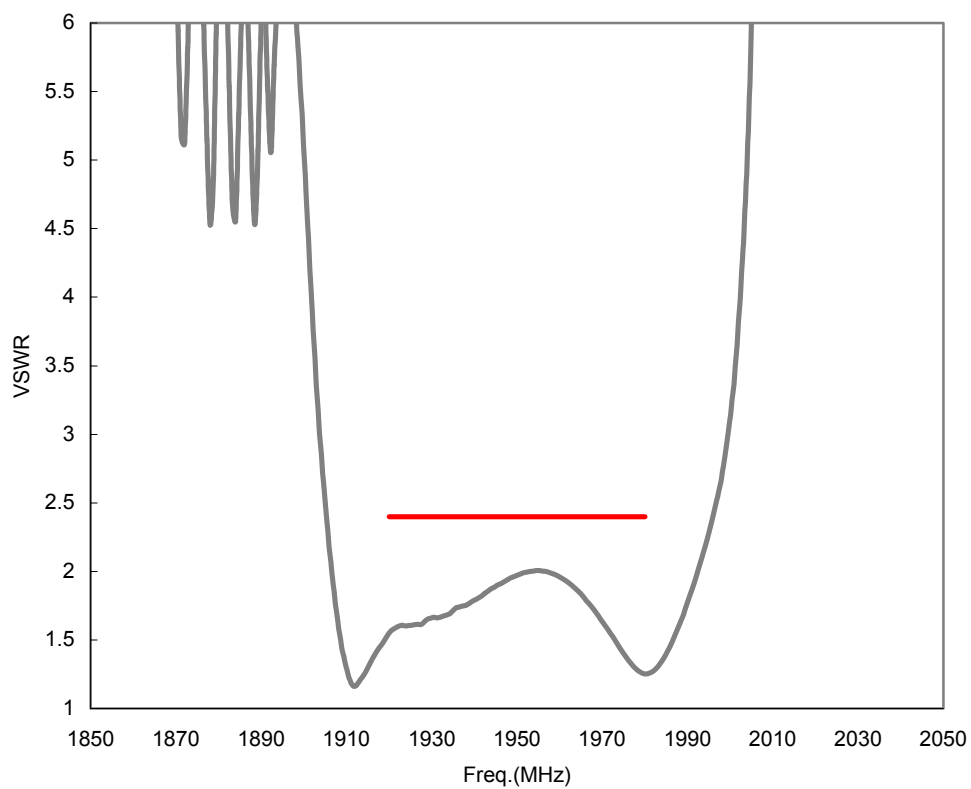


2. VSWR (25 °C)

Balance Input

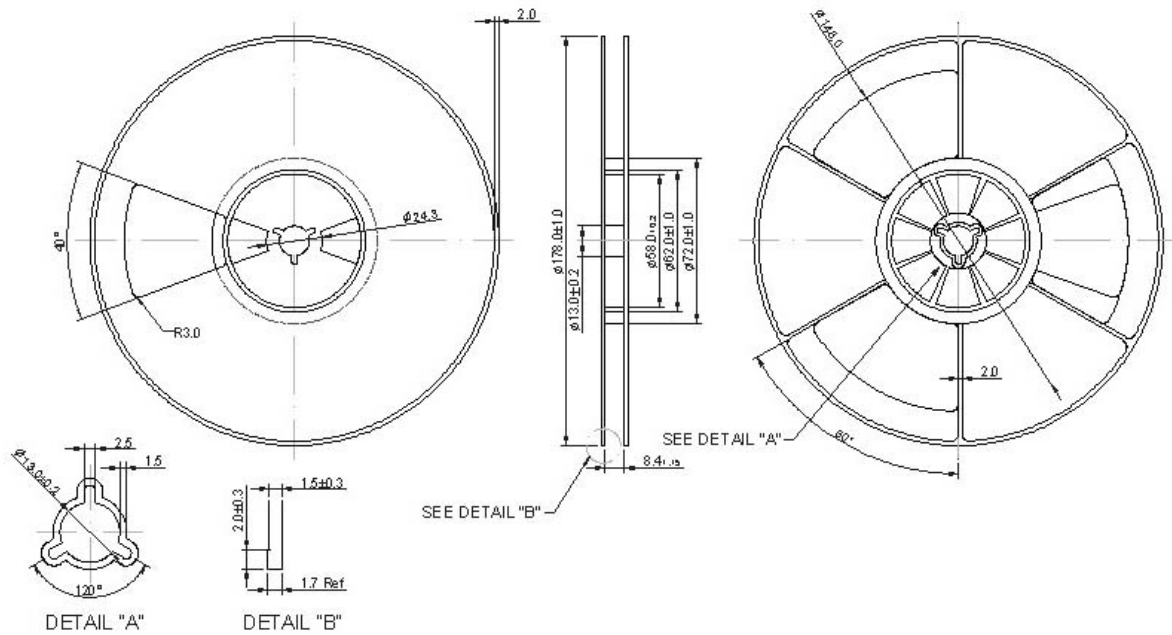


Unbalance Output



G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

