TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.
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E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

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 :

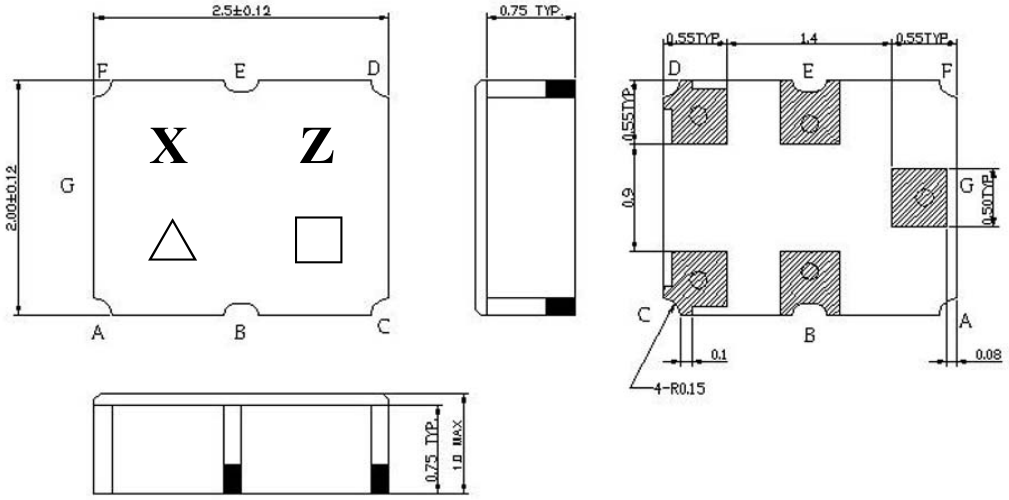
Balanced to Singled operation

Terminating source impedance : Zs = 200 Ω// 18 nH

Terminating load impedance : Z_L = 50 Ω

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°(1920~1980 MHz)		deg	-18	0	18	-

C. OUTLINE DRAWING:



Pin configuration

G : Unbalance output

C,D : Balance input

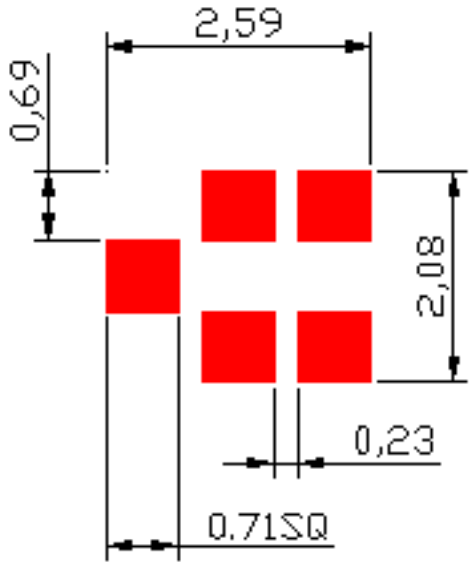
B,E : Ground

△ : Year code (2004->4, 2005->5,…, 2009->9)

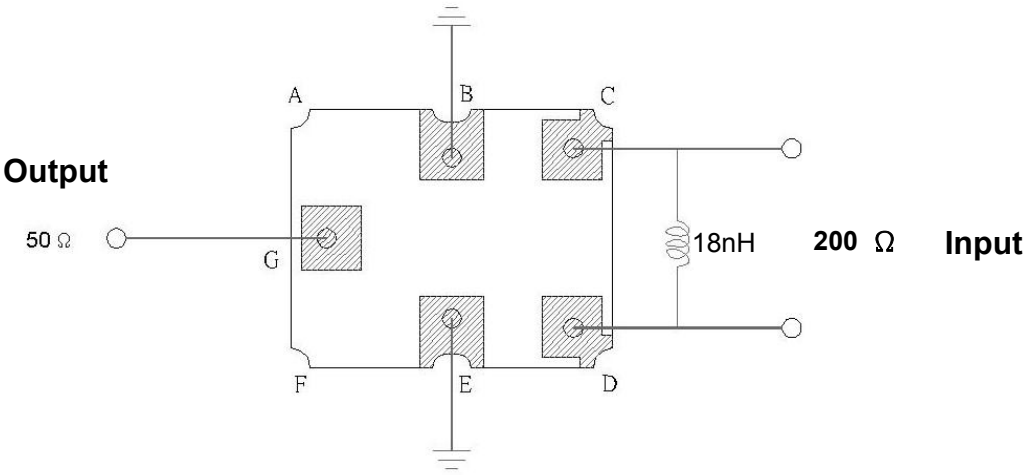
□ : Date code

Unit : mm

D. PCB Footprint:

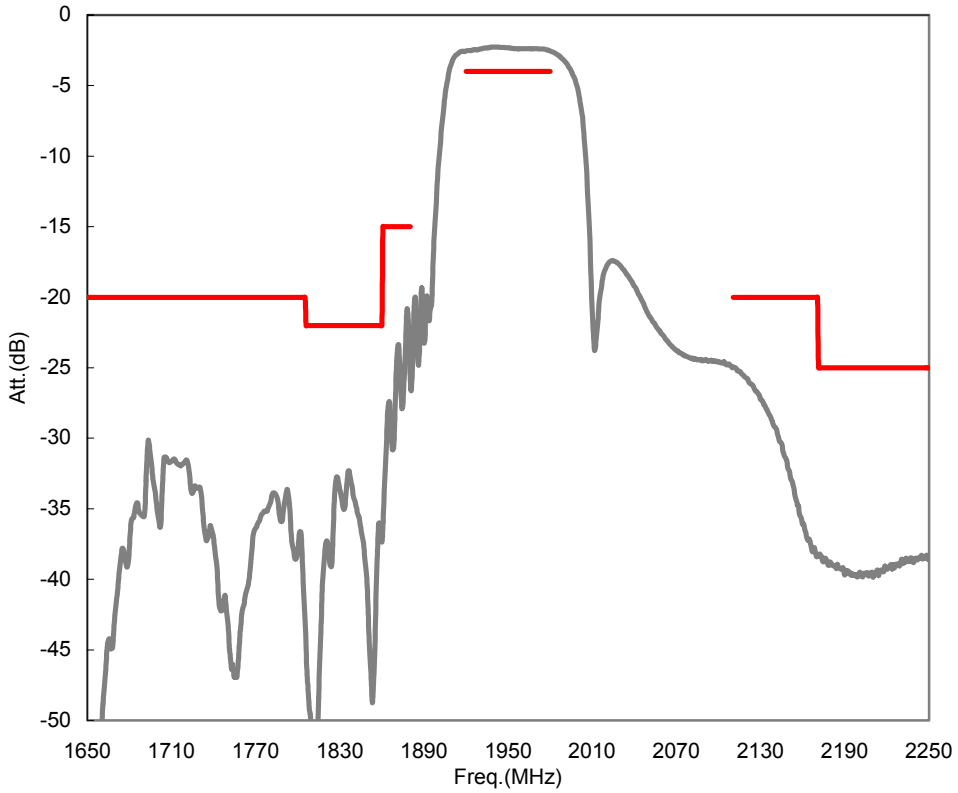


E. MEASUREMENT CIRCUIT:

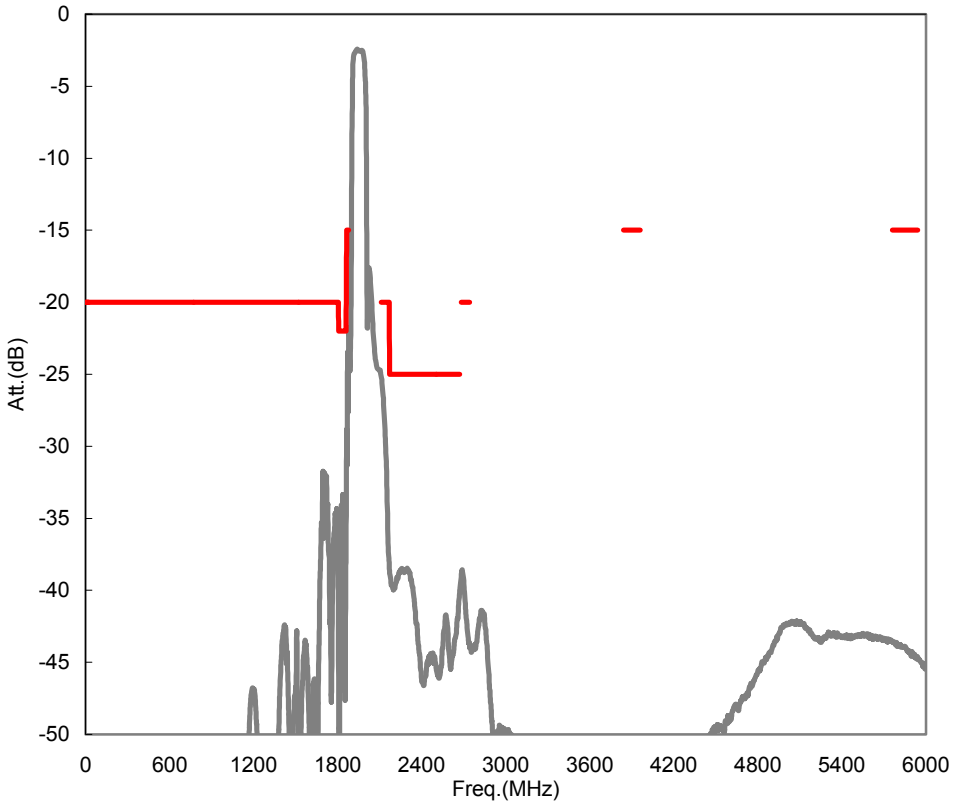


F. FREQUENCY CHRACTERISTICS:

1. Transfer function (25 ℃)

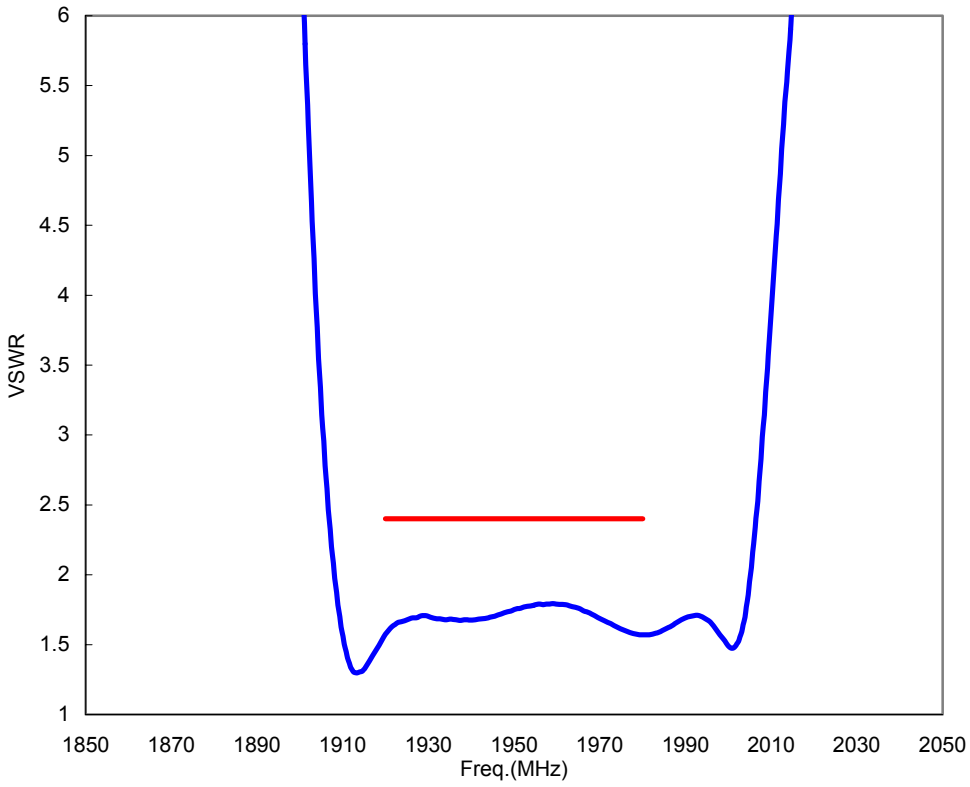


(wideband)

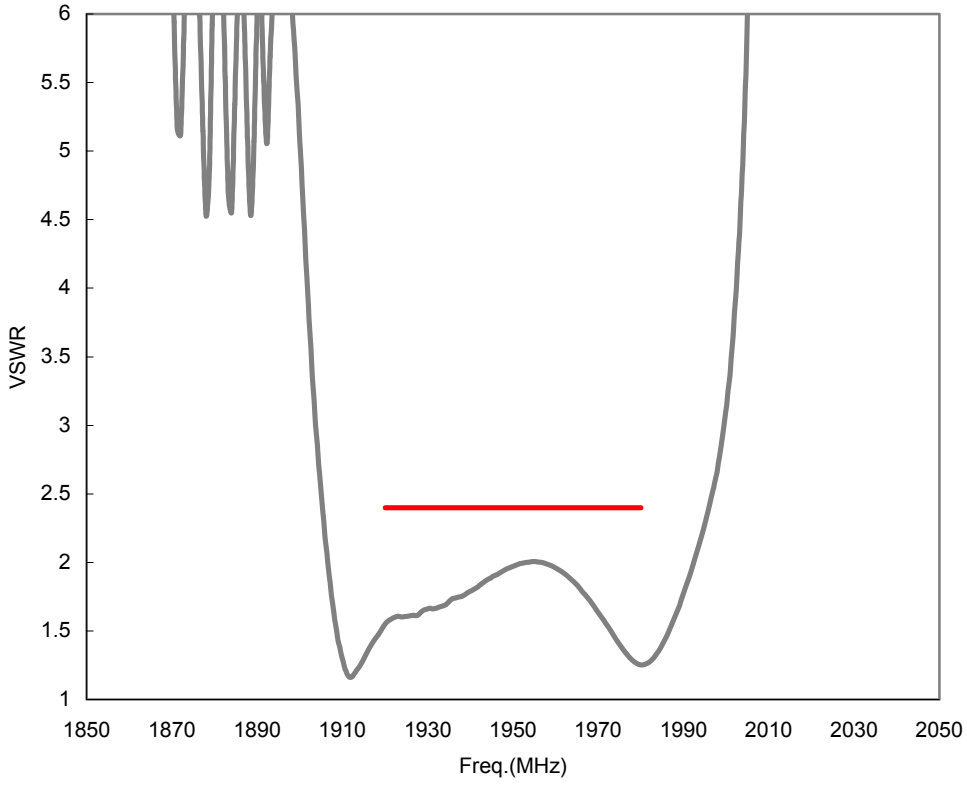


2. VSWR (25 ℃)

Balance Input

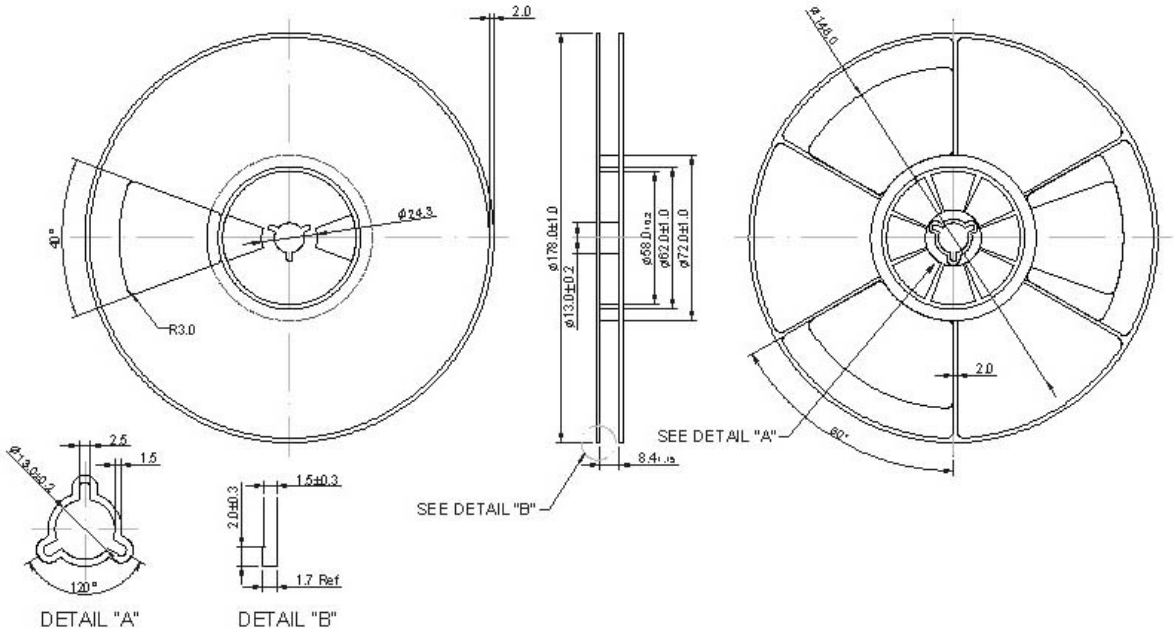


Unbalance Output



G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION