TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Approval Sheet For Product Specification

Issued Date: August, 2, 2004

Product Name: SAW Filter 1960 MHz for Mobile Communication

TST Parts No.: TA0246A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____Bob Chau_____

Approval by:_____Francis Chen_____

Date:_____August,2,2004_____

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SAW Filter 1960 MHz for Mobile Communication

MODEL NO.: **TA0246A** REV. NO.:3

A. MAXIMUM RATING:

1.Operating Temperature: -20°C ~ +75°C

2.Storage Temperature: -40°C ~ +85°C

RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS :

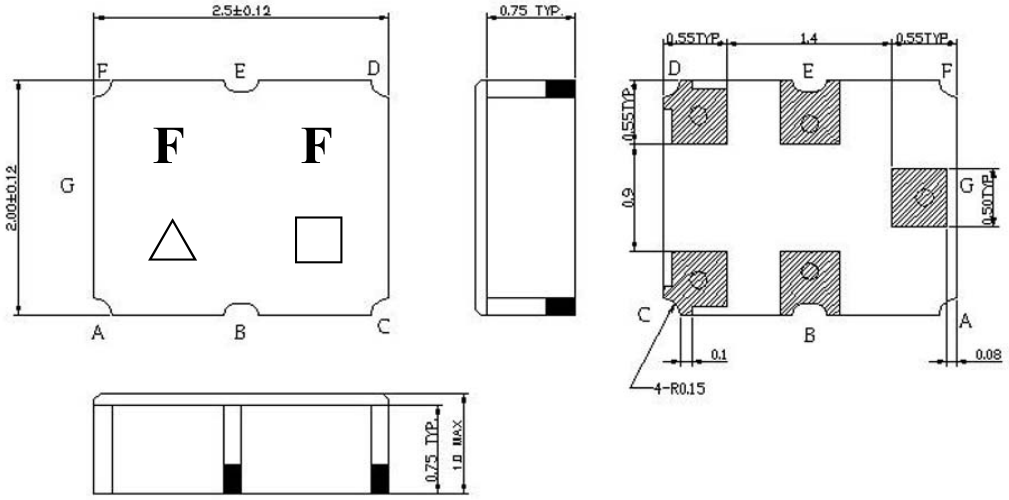
Singled to Balanced operation

Terminating source impedance : Zs = 50 Ω

Terminating load impedance : Z_L = 200 Ω// 18 nH

Item			Value			Note
			Min.	Typ.	Max.	
Center frequency	F_C	MHz	-	1960	-	-
Insertion loss(1930~1990 MHz) **I.L.**		(dB)	-	2.7	4.0	-
Ripple (1930~1990 MHz)		(dB)	-	0.6	2.4	-
Input VSWR (1930~1990 MHz)			-	1.8	2.4	-
Output VSWR (1930~1990 MHz)			-	2.0	2.4	-
Attenuation:(Reference level from 0 dB)						
0 ~ 1000 MHz		(dB)	45	55	-	-
1000 ~ 1830 MHz		(dB)	25	31	-	-
1830 ~ 1900 MHz		(dB)	15	25	-	-
1900 ~ 1910 MHz		(dB)	7	12.5	-	-
2010 ~ 2030 MHz		(dB)	5	8	-	-
2030 ~ 2070 MHz		(dB)	12	18	-	-
2070 ~ 2310 MHz		(dB)	20	23.5	-	-
2310 ~ 2380 MHz		(dB)	35	38	-	-
2380 ~ 4600 MHz		(dB)	30	39	-	-
4600 ~ 6000 MHz		(dB)	23	54	-	-
Symmetry in band (referenced to the matched operating condition)						
$\|S_{31}\|/\|S_{21}\|$ (1930~1990 MHz)		(dB)	-2.0	0	1.5	-
$\Phi(S_{31})-\Phi(S_{21})$ (1930~1990 MHz)		degree	-15	0	15	-

C. OUTLINE DRAWING:



Pin configuration

G : Unbalance input

C,D : Balance output

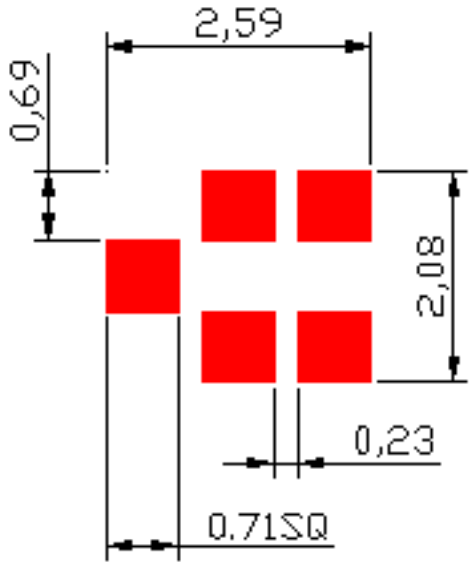
B,E : Ground

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

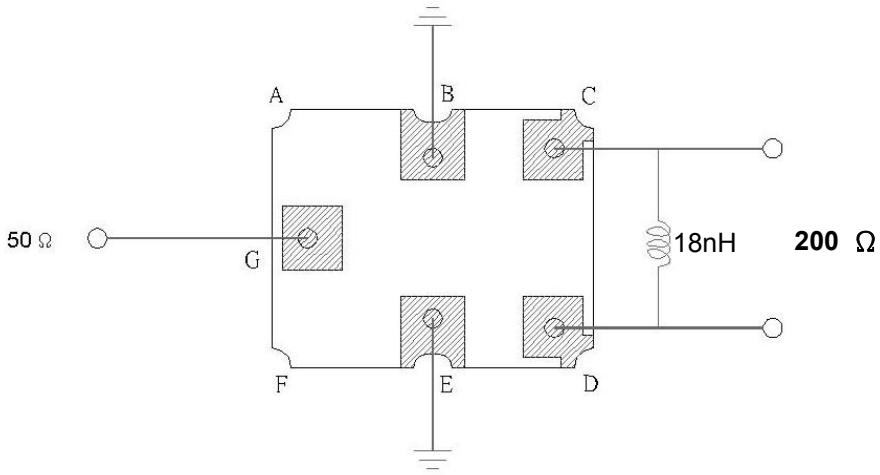
□ : Date code

Unit : mm

D. PCB Footprint:

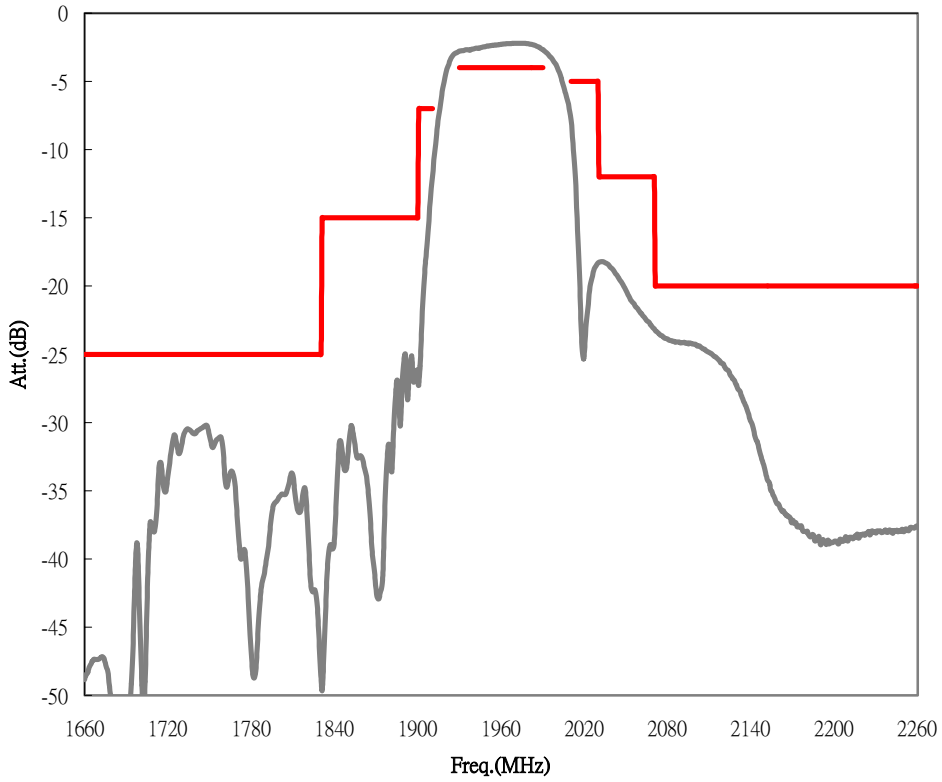


E. MEASUREMENT CIRCUIT:

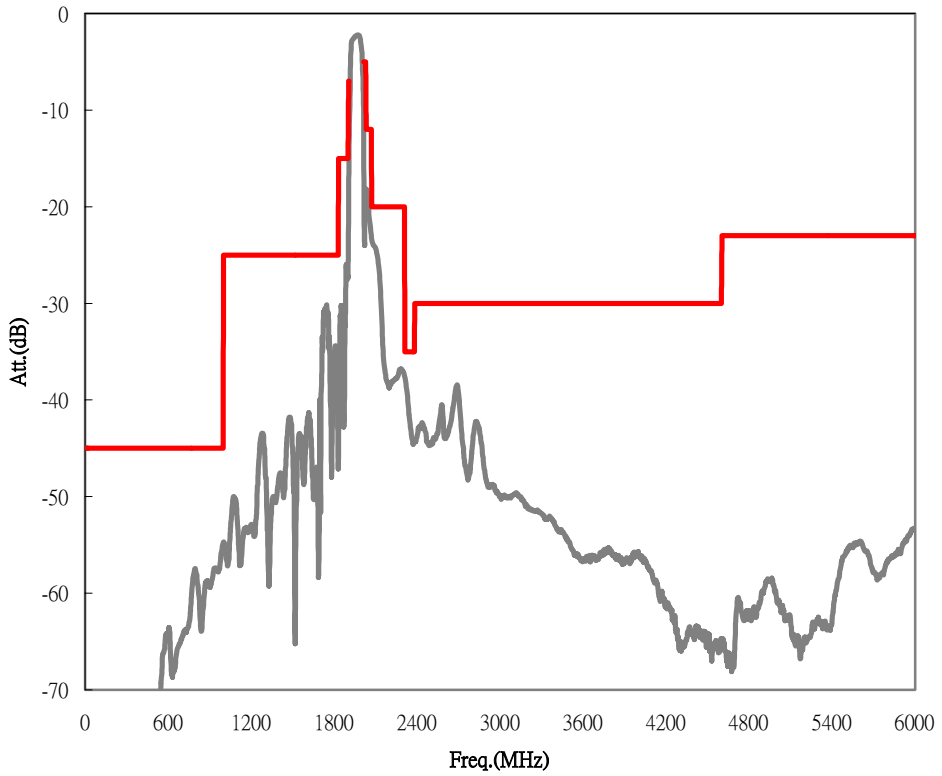


F. FREQUENCY CHRACTERISTICS:

1. Transfer function (25 ℃)

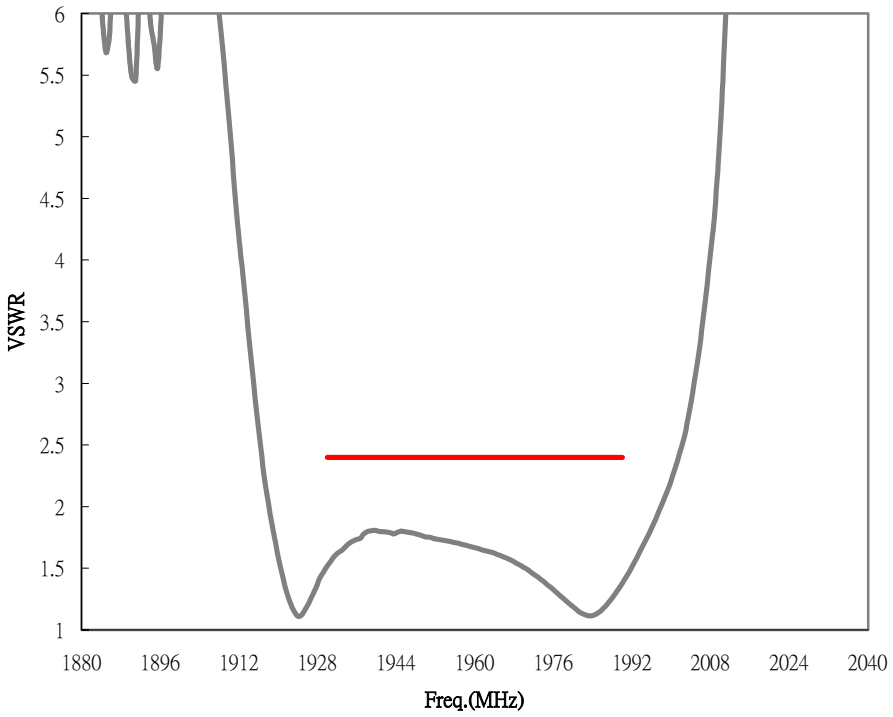


(wideband)

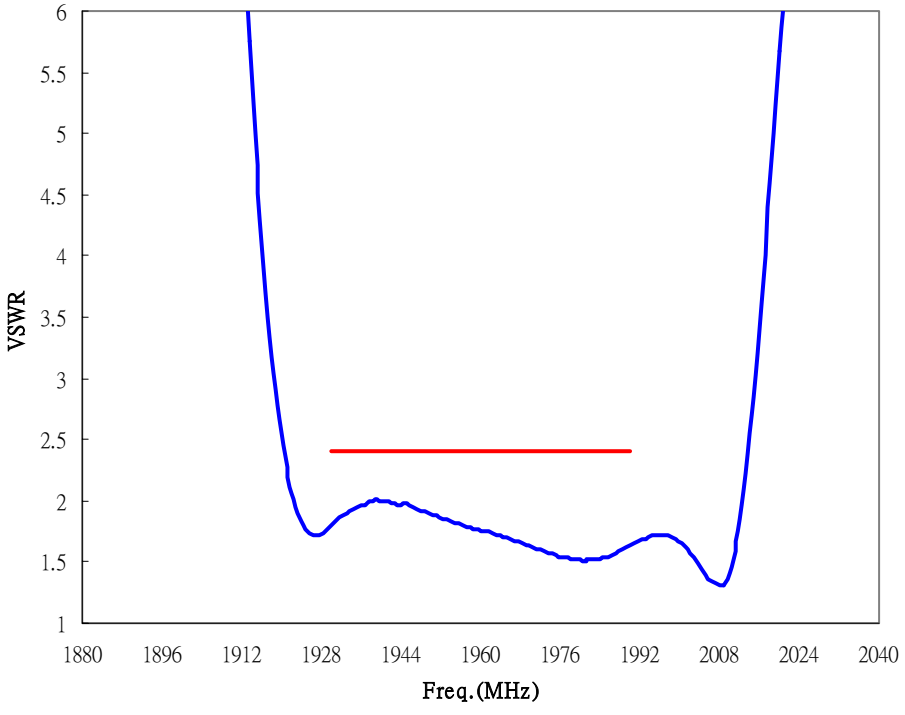


2. VSWR (25 ℃)

Unbalance Input

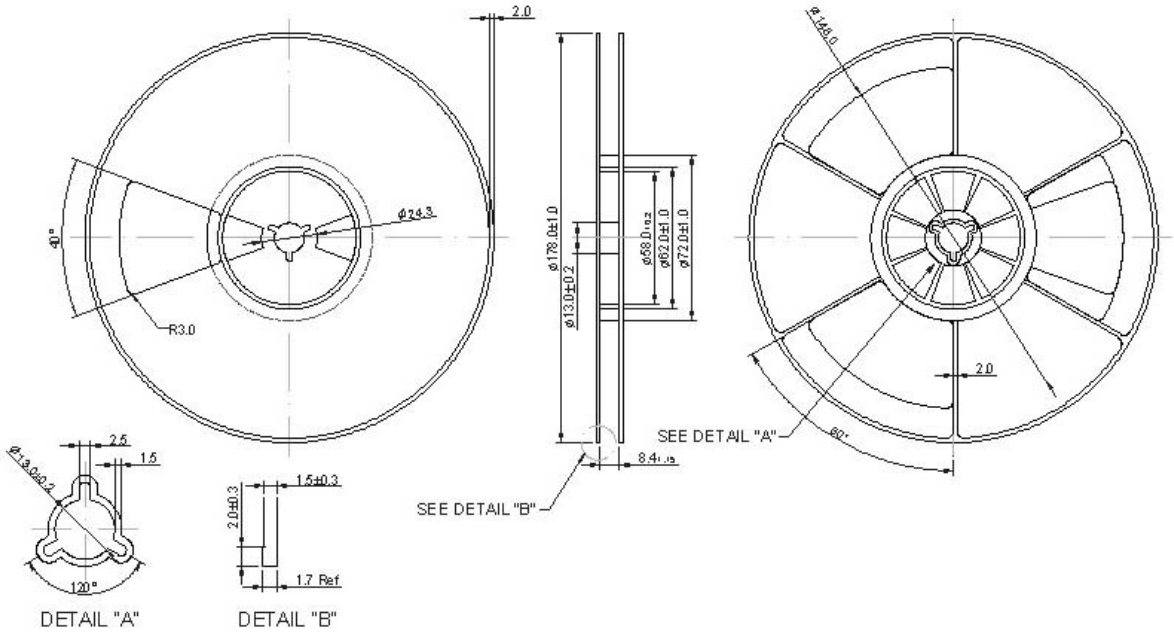


Balance Output



G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION