



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.

TEL: 886-3-4690038 FAX: 886-3-4697532

E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Approval Sheet For Product Specification

Issued Date: Oct, 29, 2004

Product Name: SAW Filter 942.5 MHz for Mobile Communication

TST Parts No.: TA0231A

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Bob Chau

Approval by: _____ Francis Chen

Date: _____ 10,29,2004



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.

TEL: 886-3-4690038 FAX: 886-3-4697532

E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

SAW Filter 942.5 MHz for Mobile Communication

MODEL NO.: TA0231A

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 :

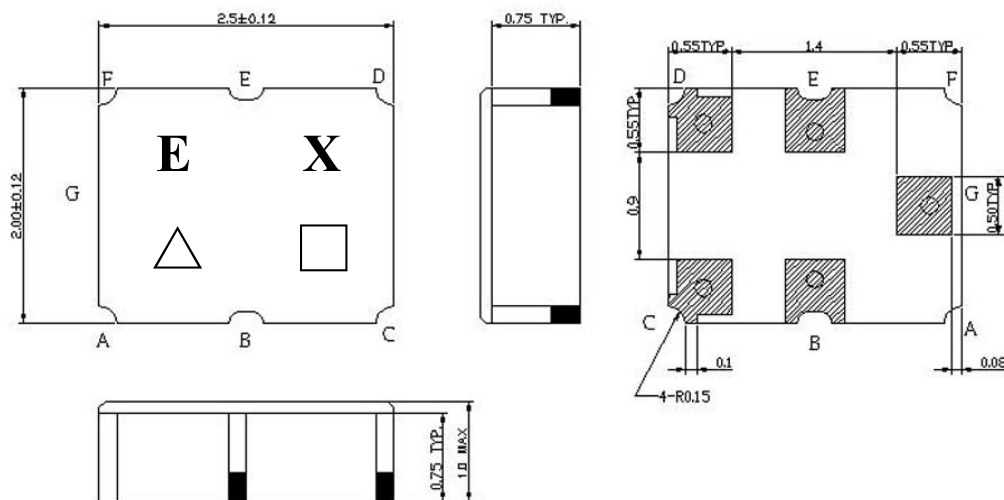
Singled to Balanced operation

Terminating source impedance : $Z_s = 50 \Omega$

Terminating load impedance : $Z_L = 200 \Omega // 50 \text{ nH}$

Item	Value			Note
	Min.	Typ.	Max.	
Center frequency F_c MHz	-	942.5	-	-
Insertion loss(925~960 MHz) I.L. (dB)	-	2.8	4.0	-
Ripple (925~960 MHz) (dB)	-	1.0	2.4	-
Input VSWR (925~960 MHz)	-	1.8	2.5	-
Output VSWR (925~960 MHz)	-	1.8	2.5	-
Attenuation: (Reference level from 0 dB)				
0 ~ 880 MHz (dB)	50	52	-	-
880 ~ 905 MHz (dB)	30	44	-	-
905 ~ 915 MHz (dB)	10	27	-	-
980 ~ 1050 MHz (dB)	21	27	-	-
1050 ~ 6000 MHz (dB)	50	54	-	-
Symmetry in band (referenced to the matched operating condition)				
Output amplitude balance ($ S_{31}/S_{21} $) (925~960 MHz) (dB)	-1.3	0	1.3	-
Output phase balance ($\Phi(S_{31}) - \Phi(S_{21}) + 180^\circ$) (925~960 MHz) degree	-10	0	10	-

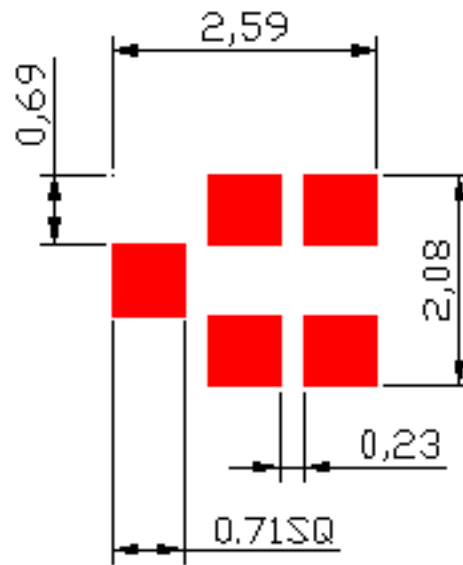
C. OUTLINE DRAWING:



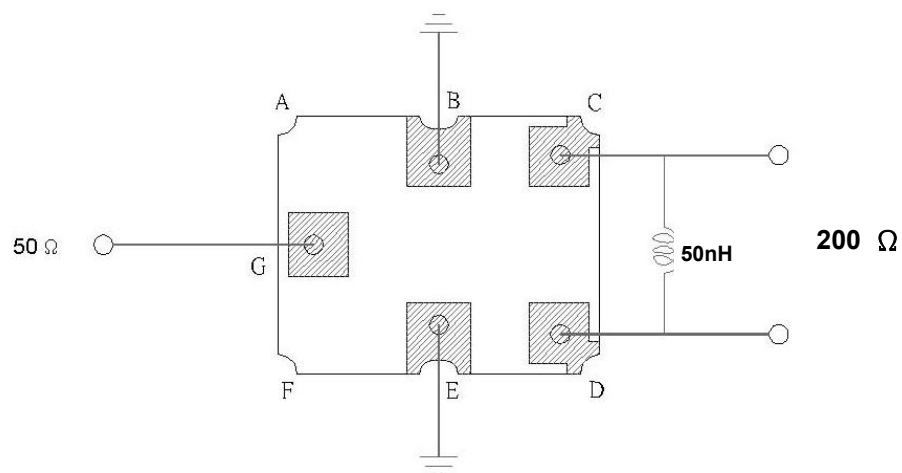
Pin configuration

- G : Unbalance input
- C,D : Balance output
- B,E : Ground
- △ : Year code
- : Date code
- Unit : mm

D. PCB Footprint:

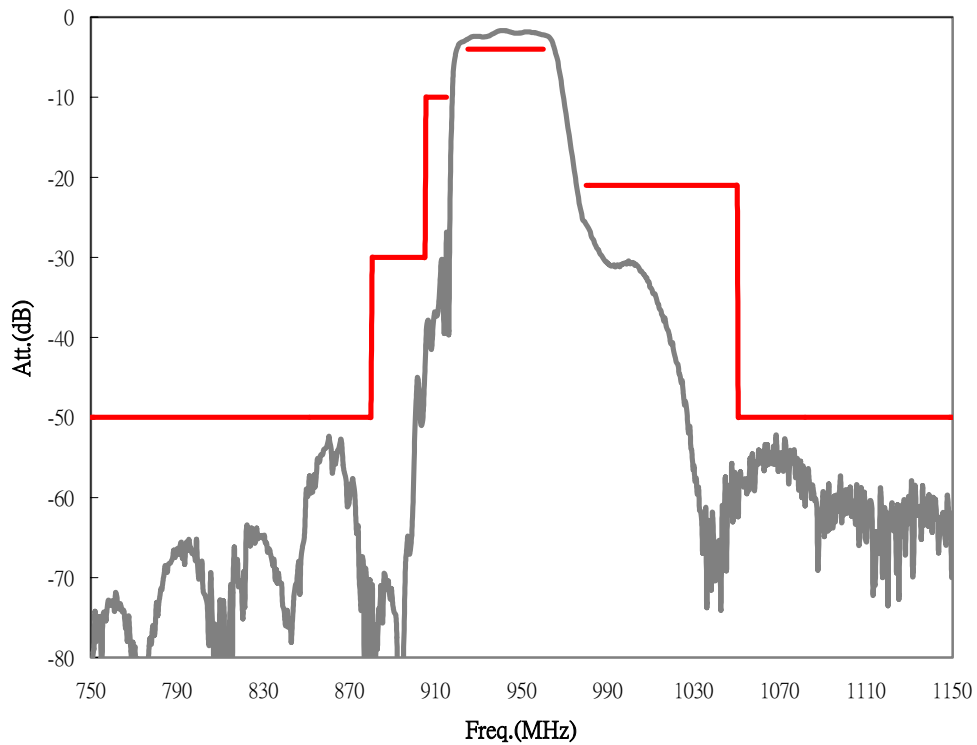


E. MEASUREMENT CIRCUIT:

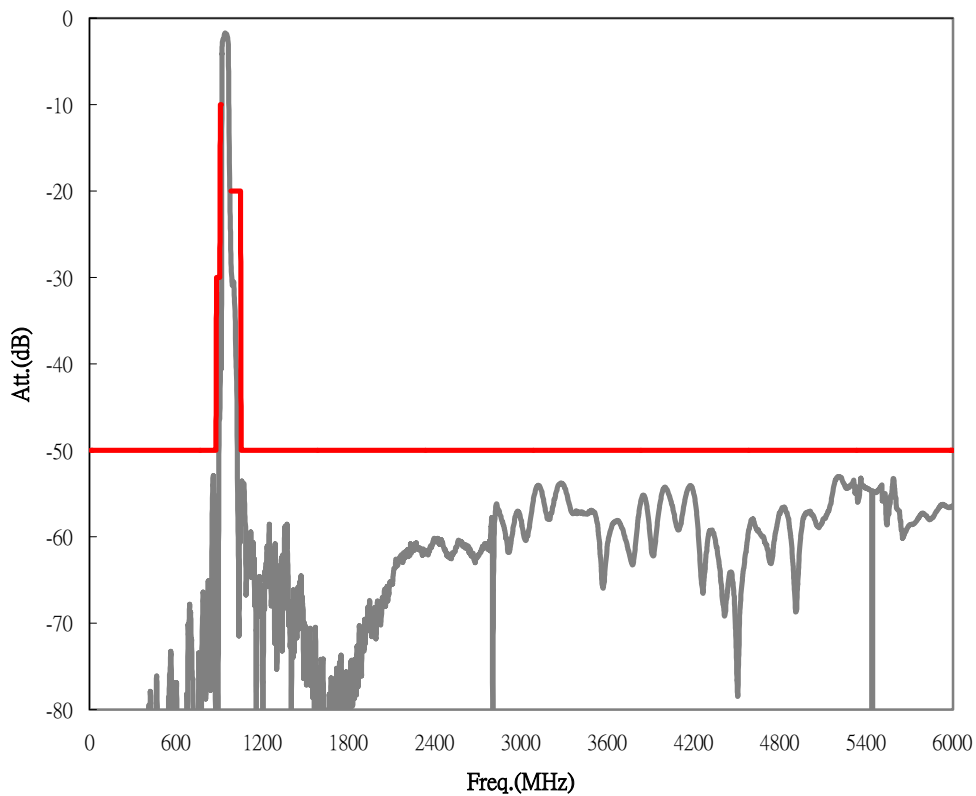


F. FREQUENCY CHARACTERISTICS:

1. Transfer function (25 °C)

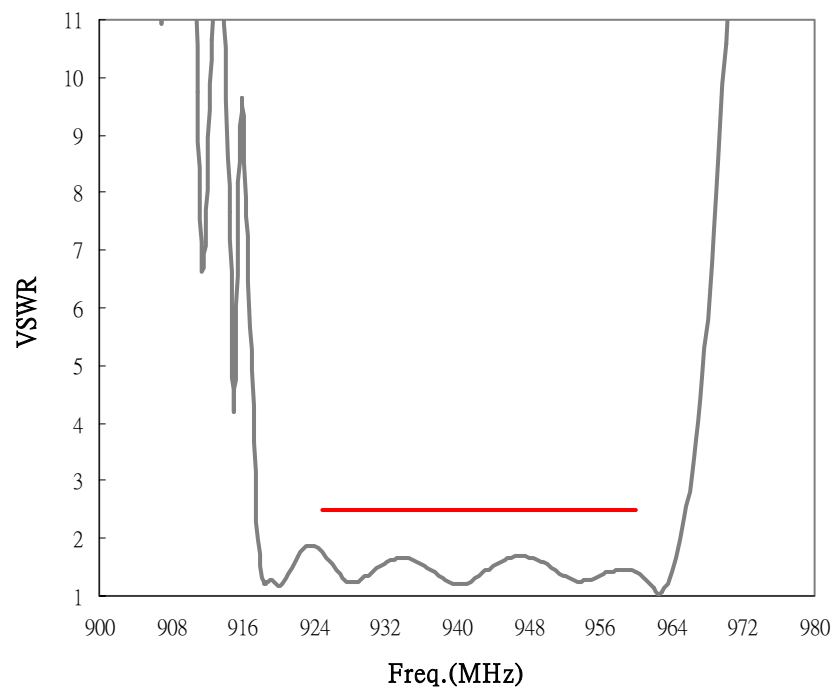


(wideband)

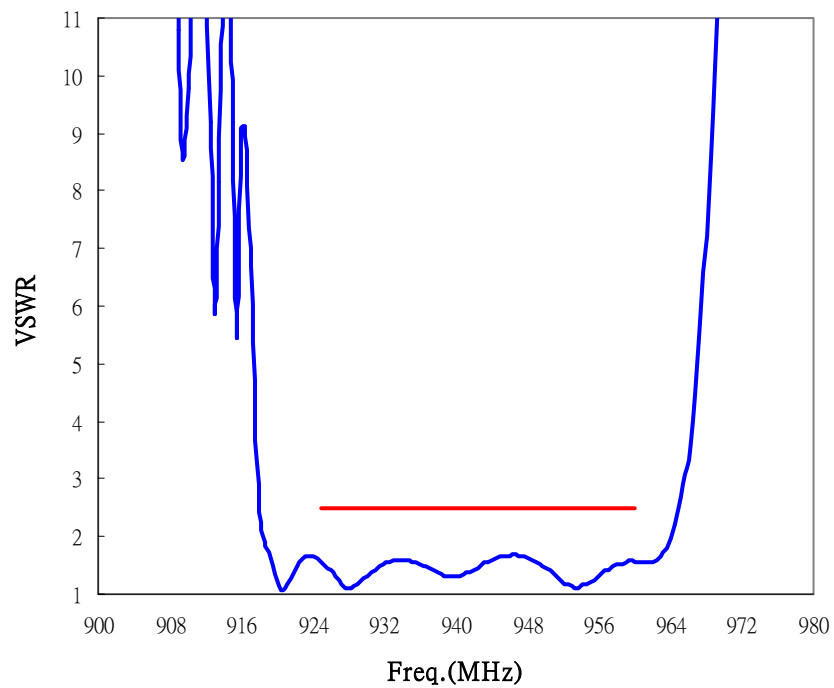


2. VSWR (25 °C)

Unbalance Input



Balance Output



1. REEL DIMENSION

