



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: Dec, 31, 2003

Product Name: SAW Filter 1960 MHz for Mobile Communication

TST Parts No.: TA0319A

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Bob Chau

Approval by: _____ Francis Chen

Date: _____ 12,31,2003



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SAW Filter 1960 MHz for Mobile Communication

MODEL NO.: TA0319A

REV. NO.:1

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

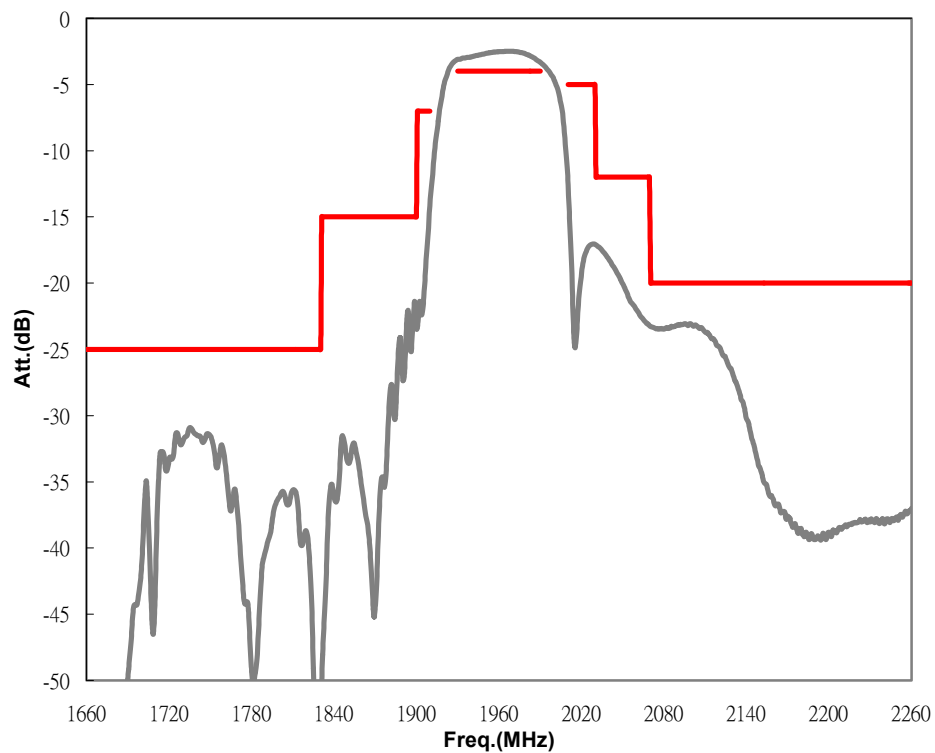
Terminating source impedance : $Z_s = 50 \Omega$

Terminating load impedance : $Z_L = 150 \Omega // 18 \text{ nH}$

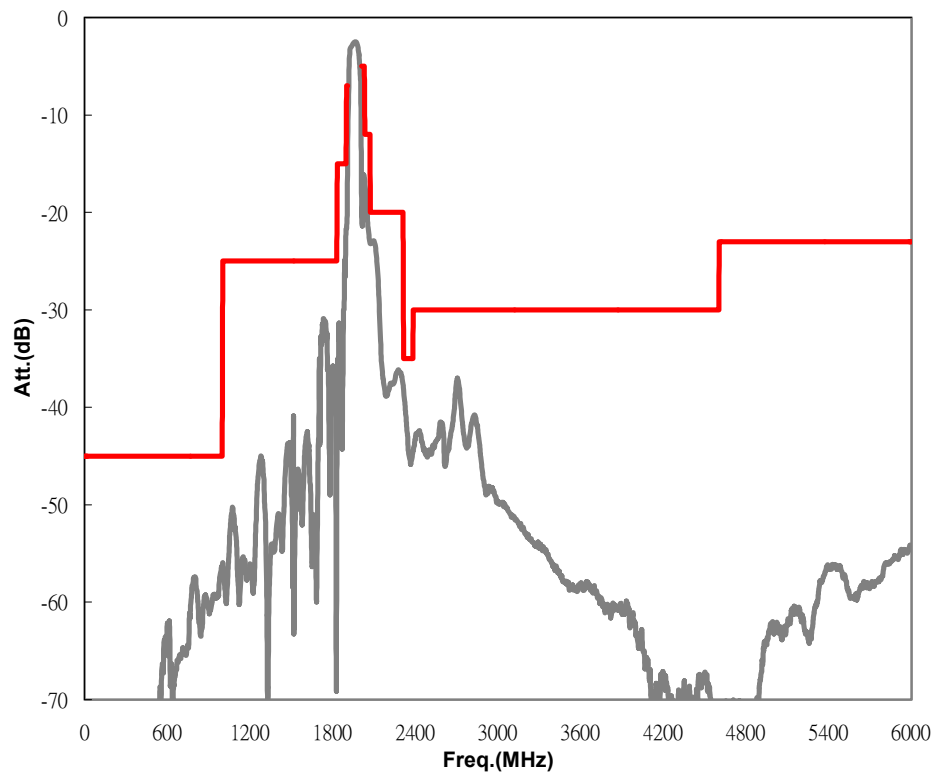
Item			Value			Note
			Min.	Typ.	Max.	
Center frequency	F_c	MHz	-	1960	-	-
Insertion loss(1930~1990 MHz) I.L.		(dB)	-	3.3	4.0	-
Ripple (1930~1990 MHz)		(dB)	-	0.8	2.4	-
Input VSWR (1930~1990 MHz)			-	1.8	2.7	-
Output VSWR (1930~1990 MHz)			-	2.3	2.7	-
Attenuation: (Reference level from 0 dB)						
0 ~ 1000	MHz	(dB)	45	57	-	-
1000 ~ 1830	MHz	(dB)	25	31	-	-
1830 ~ 1900	MHz	(dB)	15	25	-	-
1900 ~ 1910	MHz	(dB)	7	14	-	-
2010 ~ 2030	MHz	(dB)	5	12	-	-
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)						
Output amplitude balance ($ S_{31}/S_{21} $) (1930~1990 MHz)		(dB)	-2.2	0	2.2	-
Output phase balance ($\Phi(S_{31})-\Phi(S_{21})+180^\circ$) (1930~1990 MHz)		degree	-15	0	15	-

E. FREQUENCY CHARACTERISTICS:

1. Transfer function (25 °C)

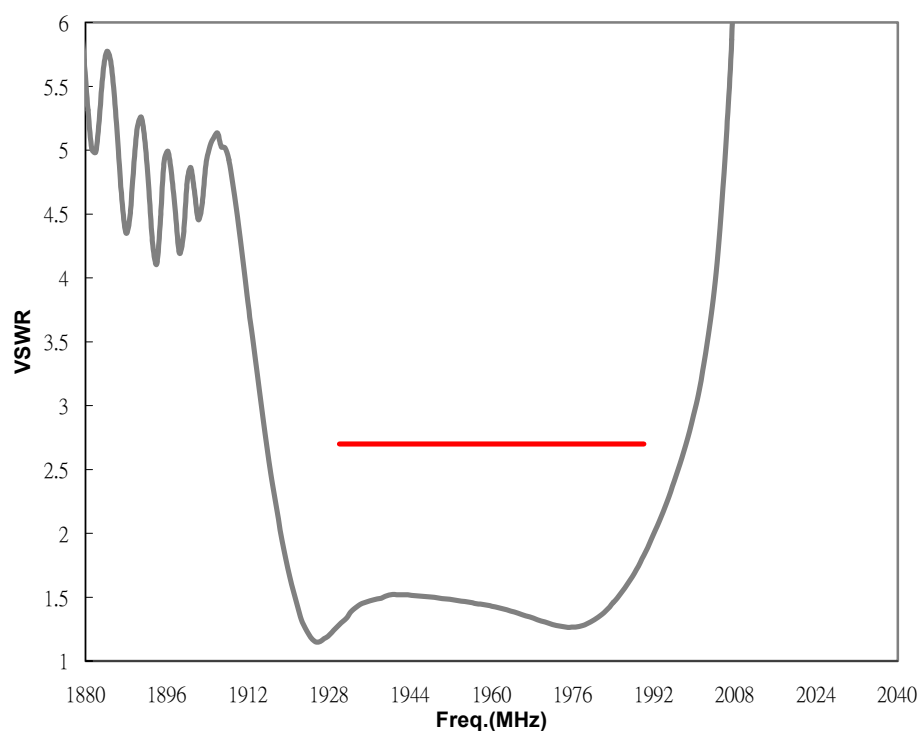


(wideband)

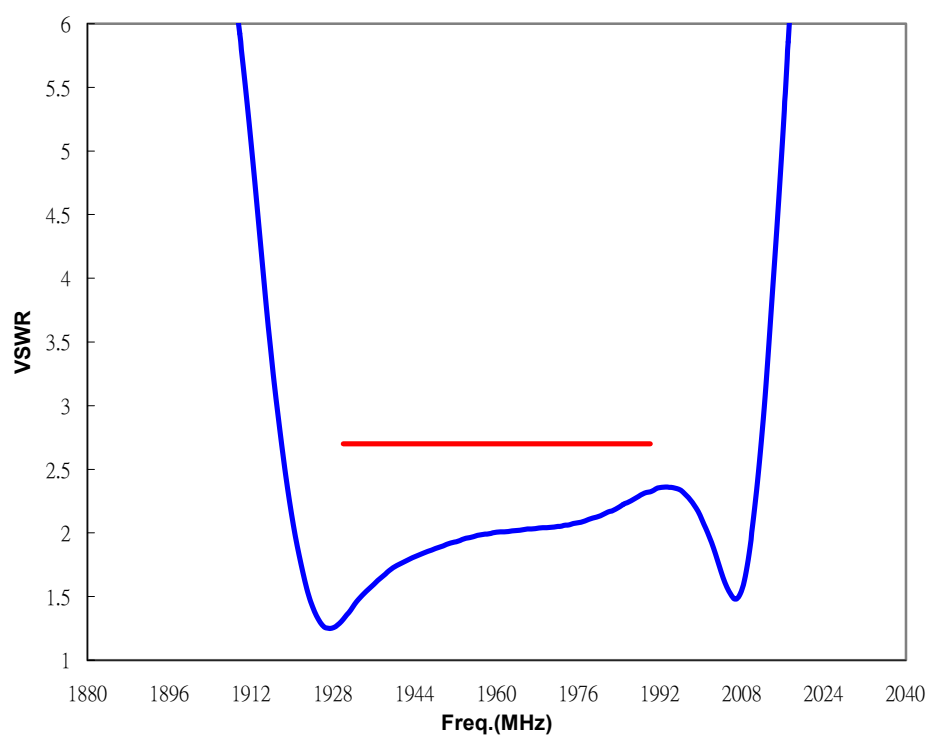


2. VSWR (25 °C)

Unbalance Input

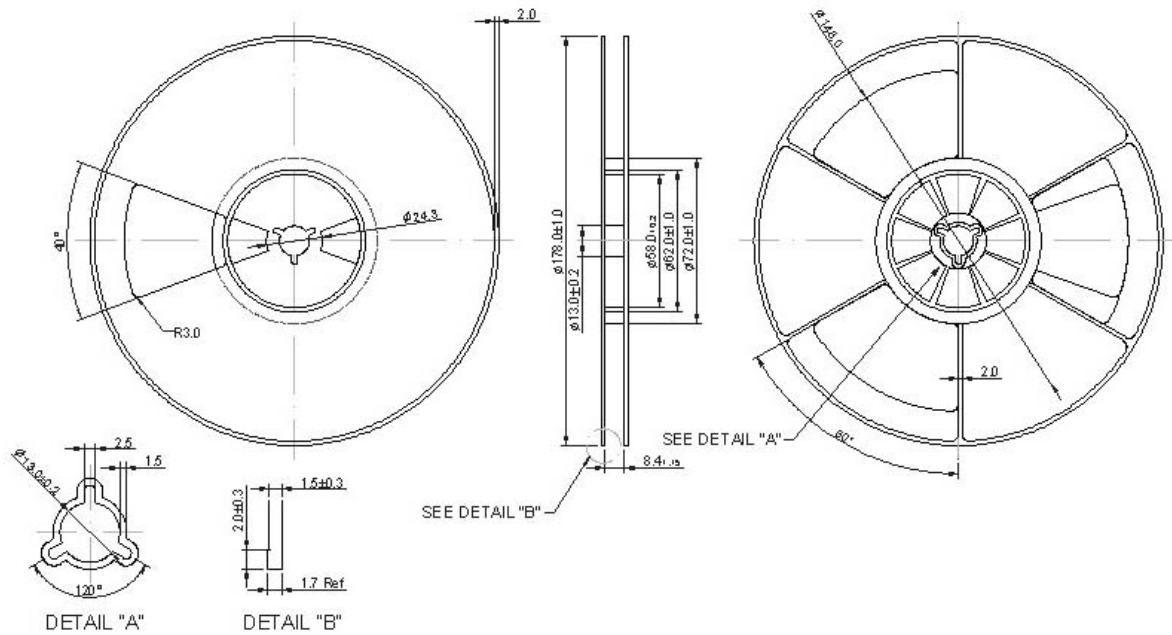


Balance Output



F. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

