



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: May, 26, 2005

Product Name: SAW Filter 1950 MHz SMD 3X3 mm

TST Parts No.:TA0235B

Customer Parts No.: _____

Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Bob Chau

Approval by: _____ Francis Chen

Date: _____ 5, 26, 2005



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SAW Filter 1950 MHz for 3G Applications

MODEL NO.: TA0235B

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 13 dB_m
2. DC voltage: 0 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

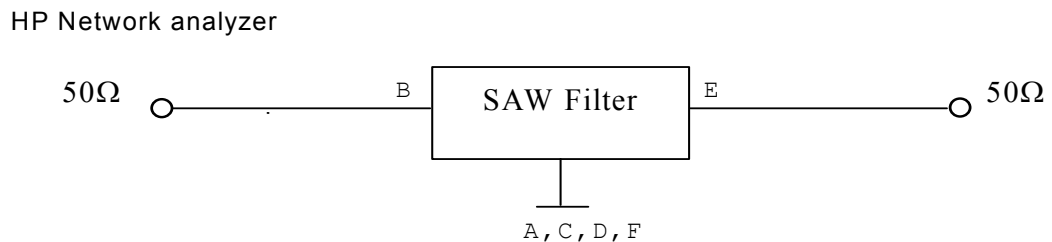
RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

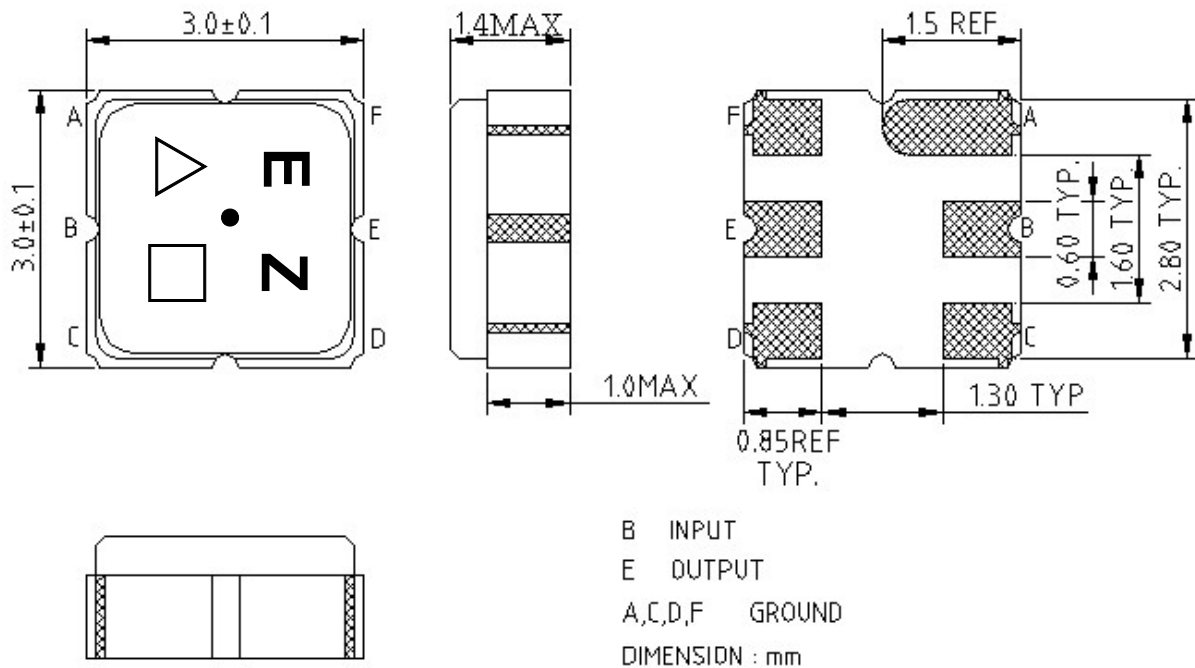
Item		Min.	Typ.	Max.
Center frequency	F_c (MHz)	-	1950	-
Insertion loss (1920~1980 MHz)	IL (dB)	-	2.5	4.0
Amplitude ripple (1920~1980 MHz)	(dB)	-	1	1.4
Attenuation (Reference level from 0 dB)				
DC ~ 1840	MHz (dB)	20	32	-
1840 ~ 1900	MHz (dB)	10	14	-
2000 ~ 2030	MHz (dB)	4.5	8	-
2030 ~ 2060	MHz (dB)	20	55	-
2060 ~ 4000	MHz (dB)	22	32	-
Input/Output VSWR (1920~1980 MHz)		-	1.9	2.4
Source impedance	Z _s (Ω)	-	50	-
Load impedance	Z _L (Ω)	-	50	-

Note1. The standard definitions is in JIS C 6703

C. MEASUREMENT CIRCUIT:



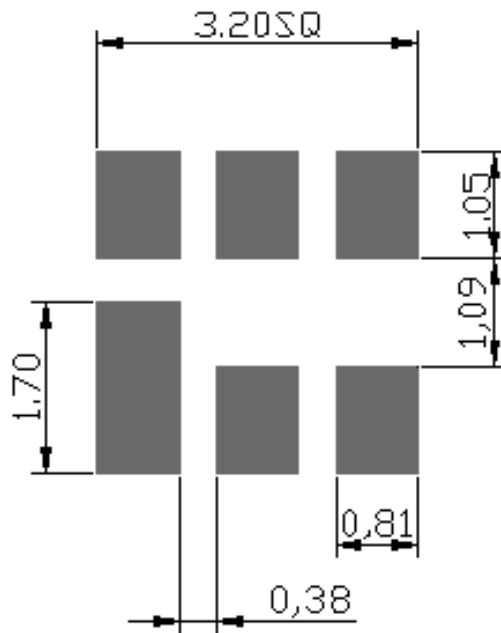
D. OUTLINE DRAWING:



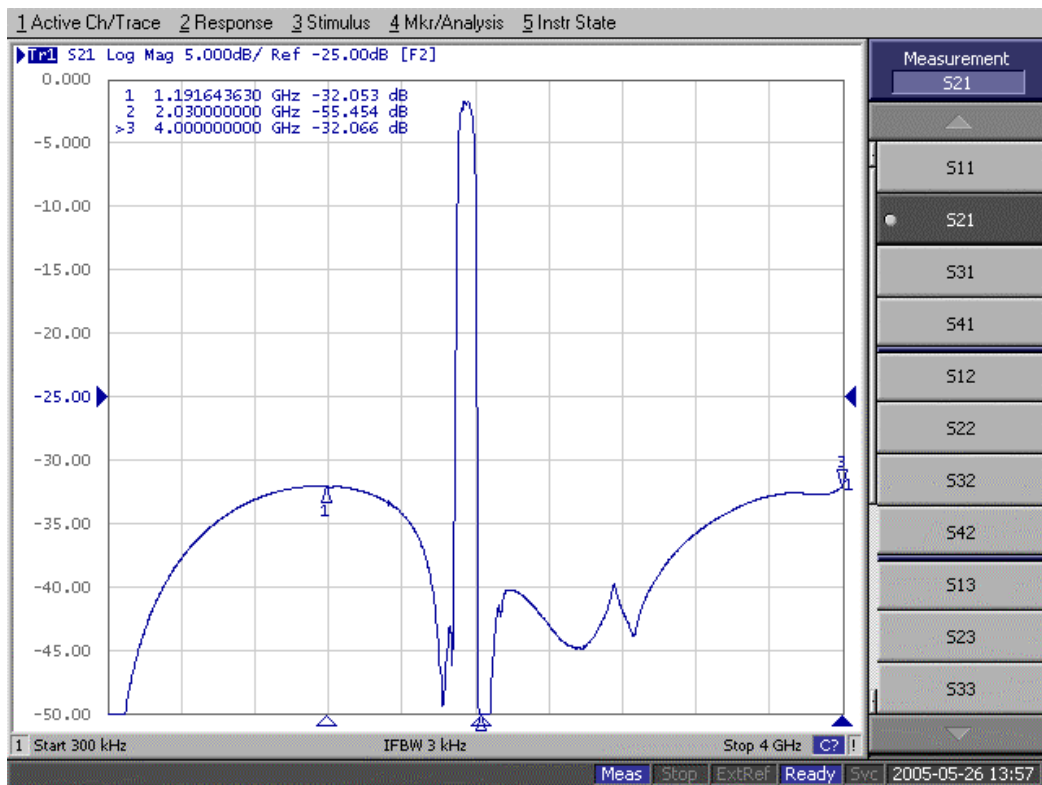
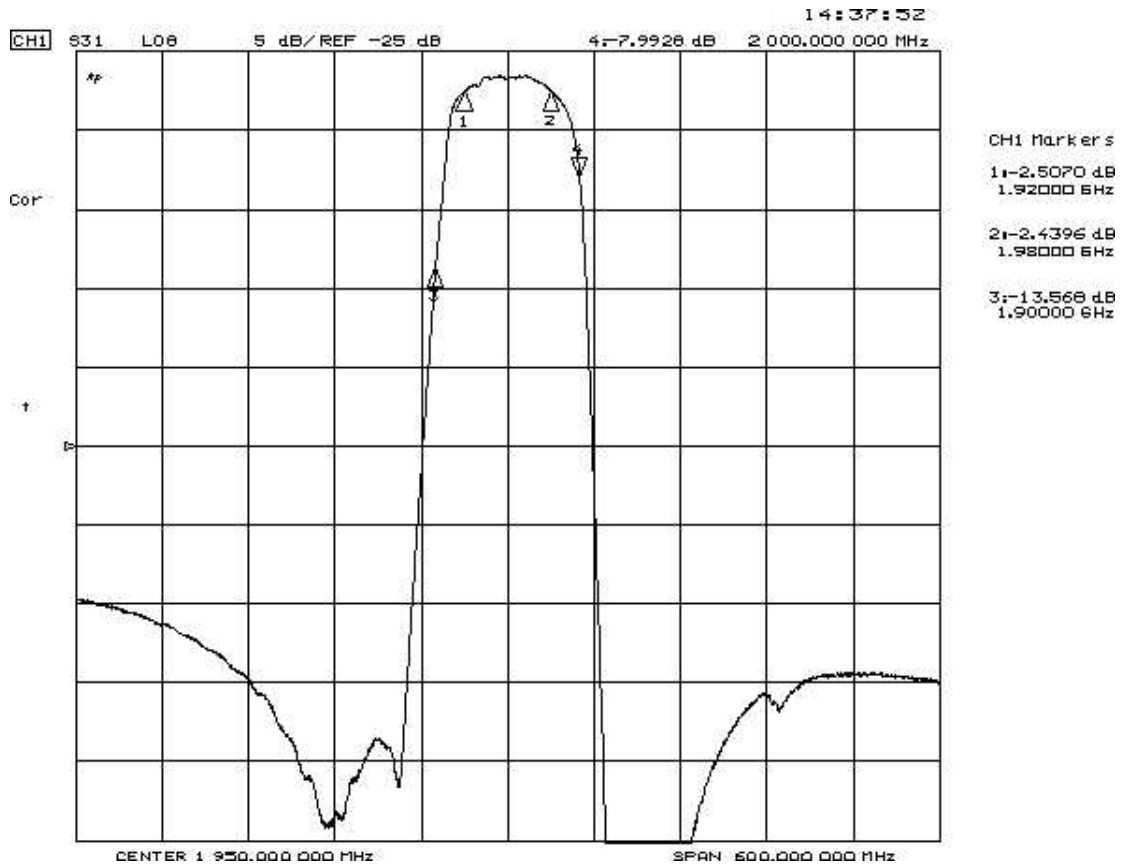
B INPUT
 E OUTPUT
 A,C,D,F GROUND
 DIMENSION : mm

△ : Year Code
 □ : Date Code

E. PCB Footprint:

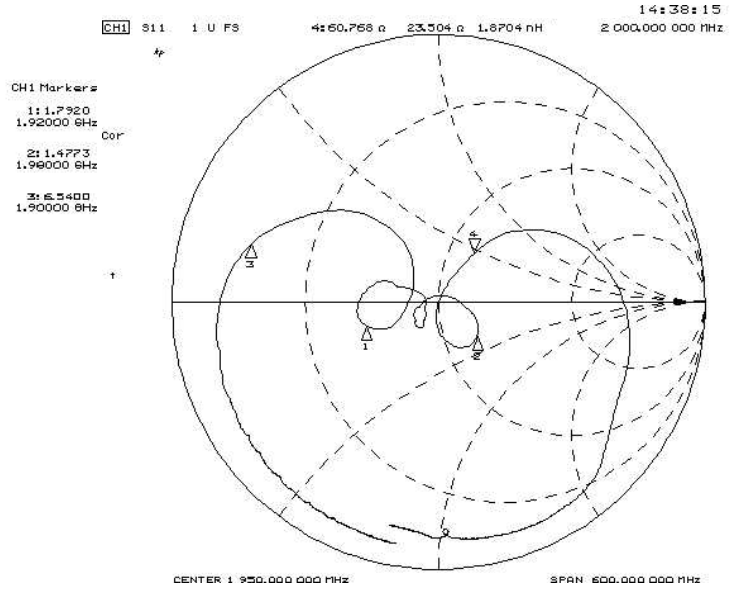
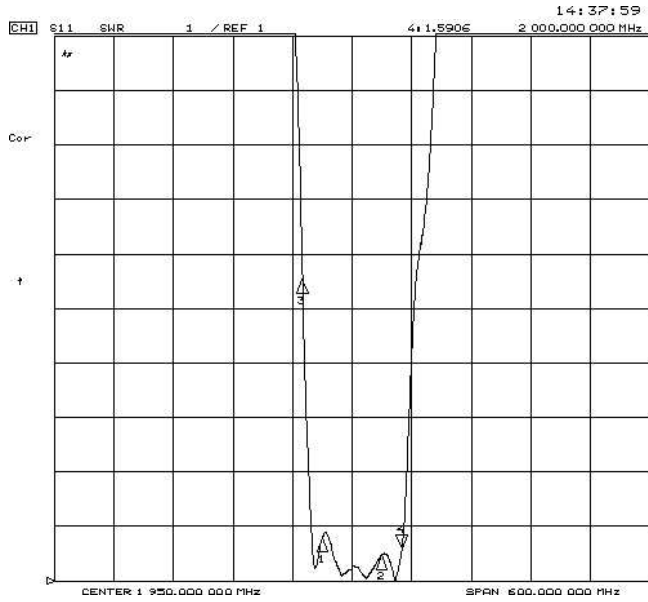


F. Frequency Characteristics : Transfer function



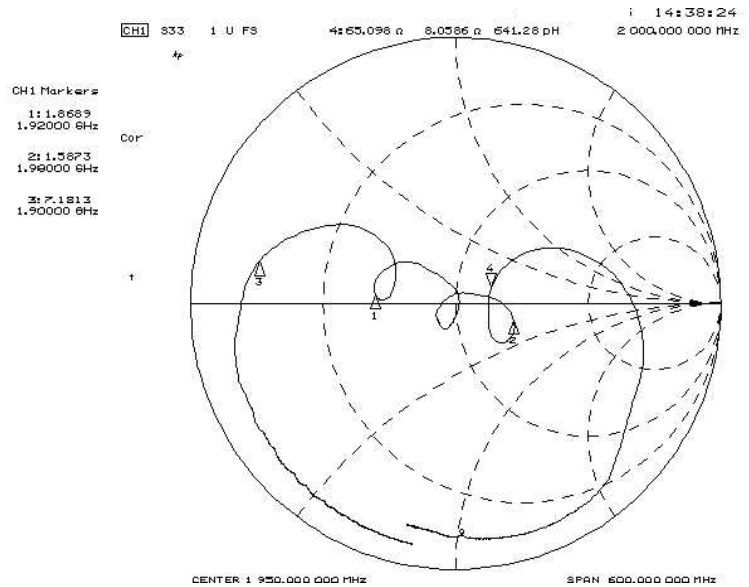
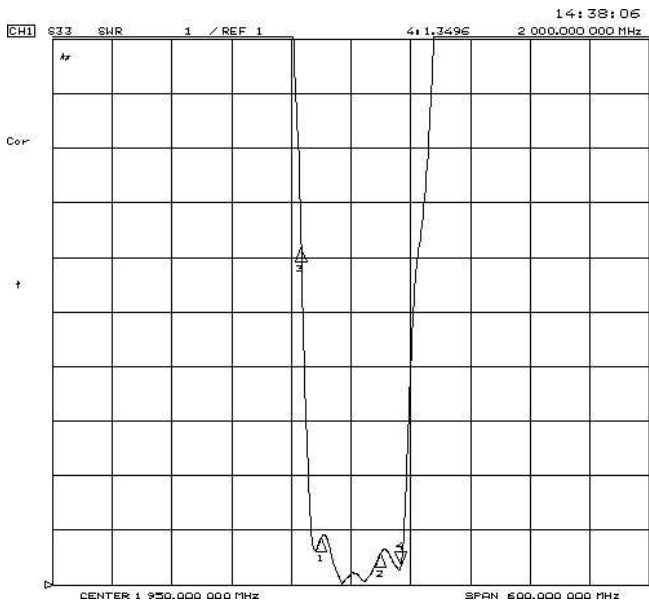
Reflections Functions :

S11



CHI Markers
 1: 26.440 Ω
 -5.6416 Ω
 1.92000 GHz
 2: 64.629 Ω
 -15.949 Ω
 1.98000 GHz
 3: 7.3096 Ω
 7.3928 Ω
 1.90000 GHz

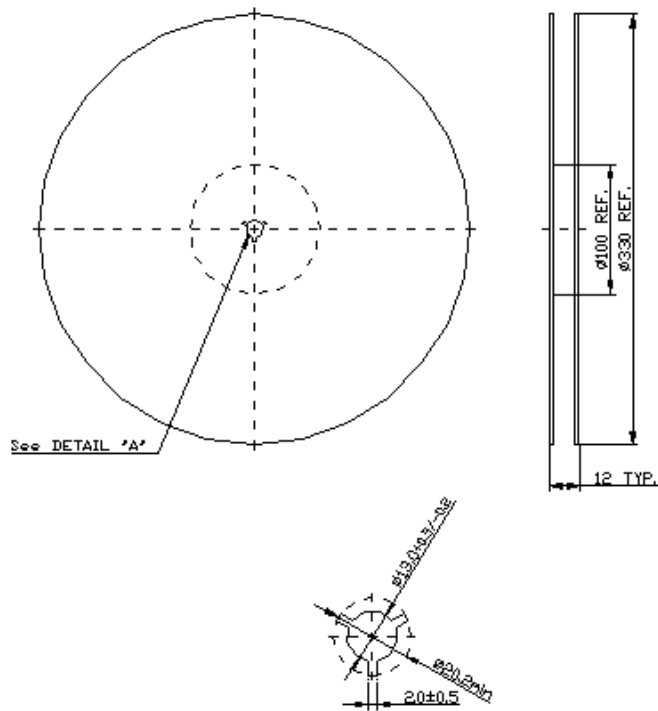
S22



CHI Markers
 1: 26.766 Ω
 1.8145 Ω
 1.92000 GHz
 2: 77.188 Ω
 -10.004 Ω
 1.98000 GHz
 3: 7.0300 Ω
 5.2104 Ω
 1.90000 GHz

G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

