



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: Dec, 21, 2004

Product Name: SAW Filter 1950MHz SMD 2.5X2.0 mm

TST Parts No.: TA0401A

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Bob Chau

Approval by: _____ Francis Chen

Date: _____ 12,21,2004



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SAW Filter 1950 MHz for Mobile Communication

MODEL NO.: TA0401A

REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dB_m
2. DC voltage: 0 V
3. Operating Temperature: -20°C to +75°C
4. Storage Temperature: -40°C to +85°C

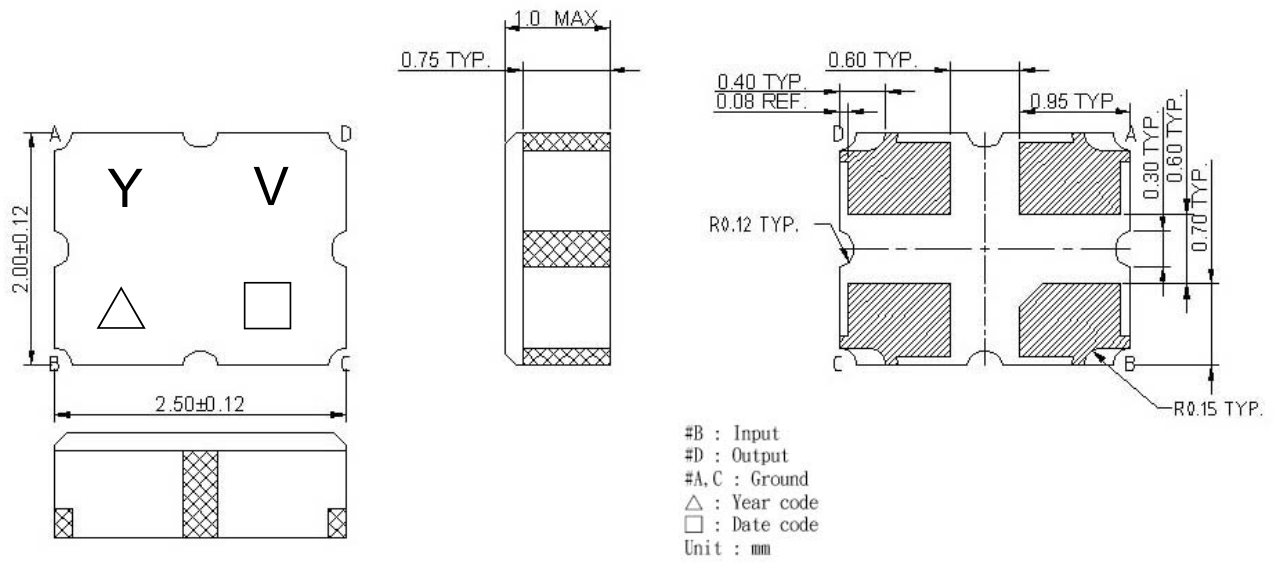
RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

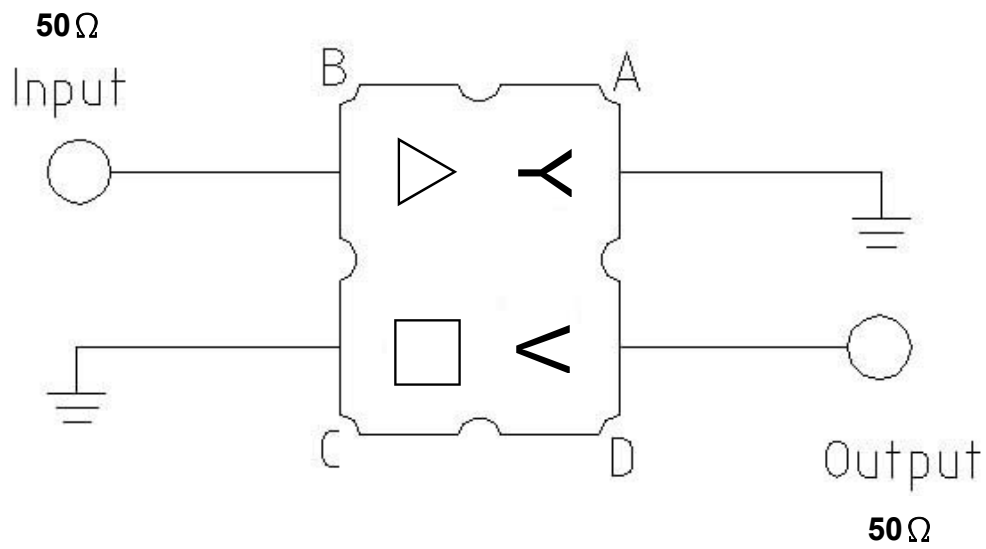
Item		Min.	Typ.	Max.
Center frequency	F_c (dB)	-	1950	-
Insertion loss within 1920 ~1980 MHz	IL (dB)	-	2.4	3.4
Amplitude ripple (p-p) within 1920 ~ 1980 MHz	(dB)	-	1.1	2.0
Attenuation (Reference level from 0 dB)				
1135 ~ 1145 MHz	(dB)	25	28	-
1705 ~ 1715 MHz	(dB)	25	29	-
1805 ~ 1880 MHz	(dB)	25	35	-
2110 ~ 2170 MHz	(dB)	30	34	-
2300 ~ 2360 MHz	(dB)	30	33	-
2490 ~ 2550 MHz	(dB)	30	34.5	-
2680 ~ 2740 MHz	(dB)	30	34	-
3060 ~ 3120 MHz	(dB)	30	44	-
3840 ~ 3960 MHz	(dB)	30	38	-
VSWR within 1920 ~1980 MHz		-	1.6	2.6
Source impedance	Z_s (Ω)	-	50	-
Load impedance	Z_L (Ω)	-	50	-

Note1. No matching network required for operation at 50 Ω

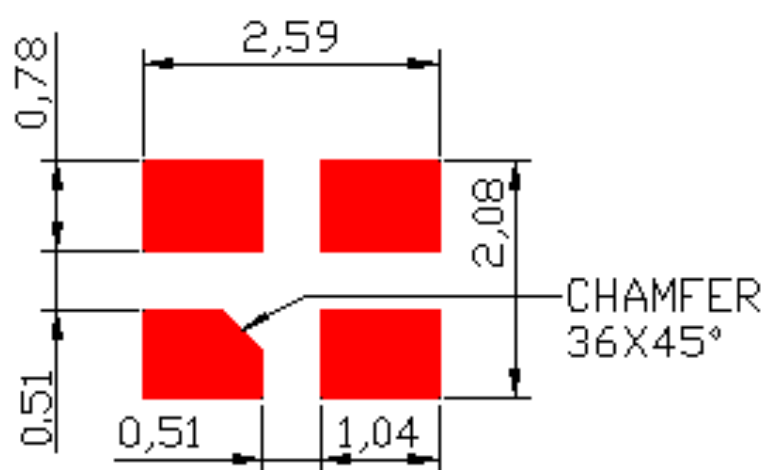
C.OUTLINE DRAWING:



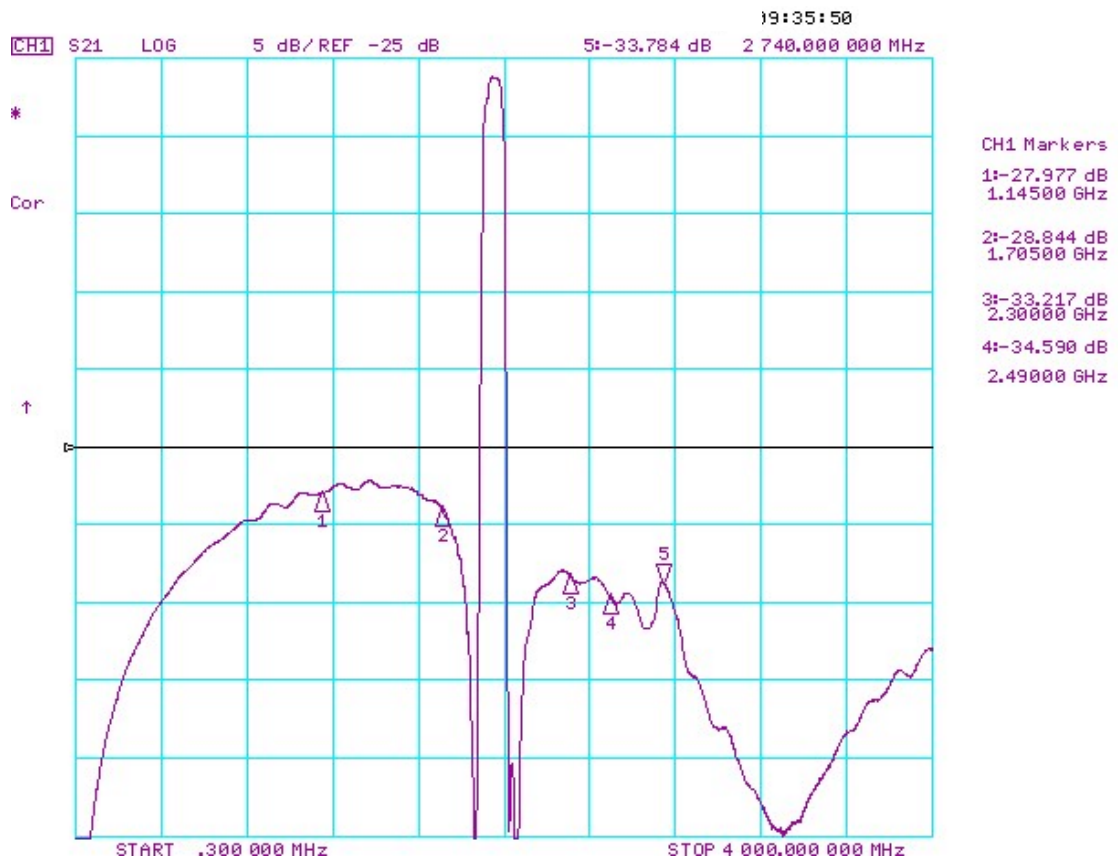
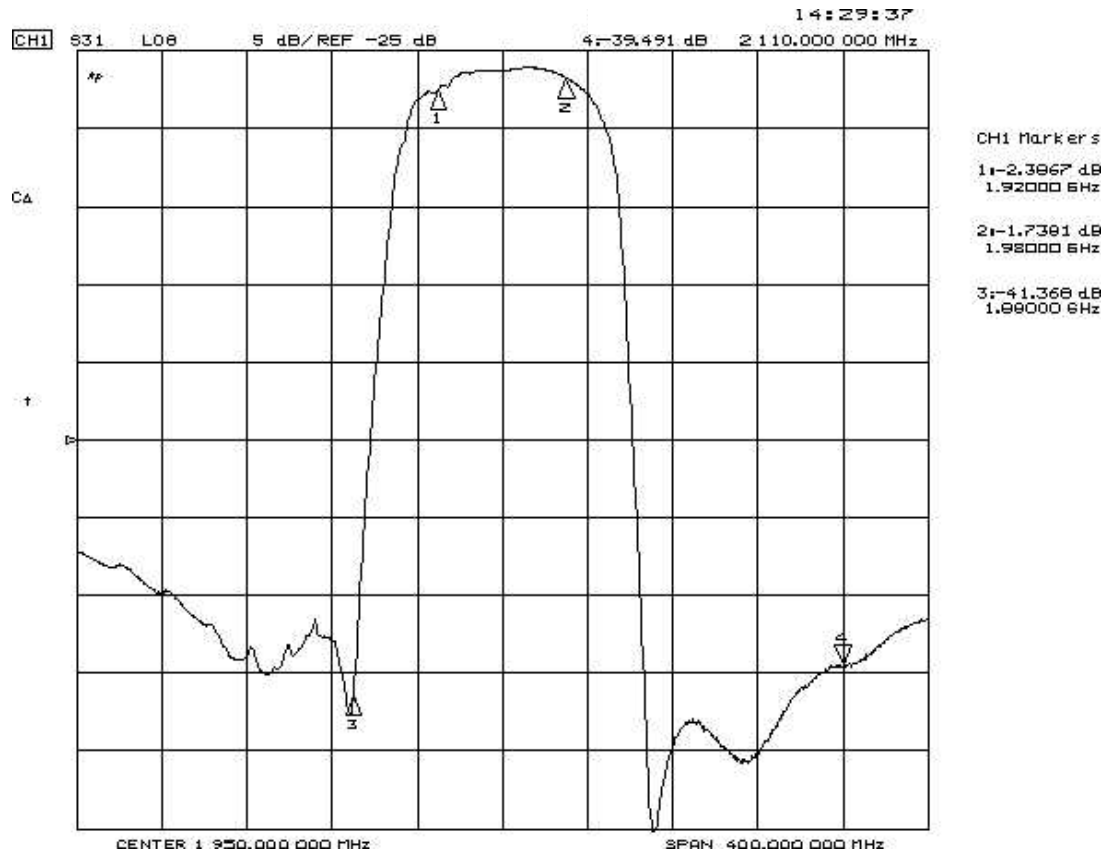
D. MEASUREMENT CIRCUIT:



E. PCB Footprint:

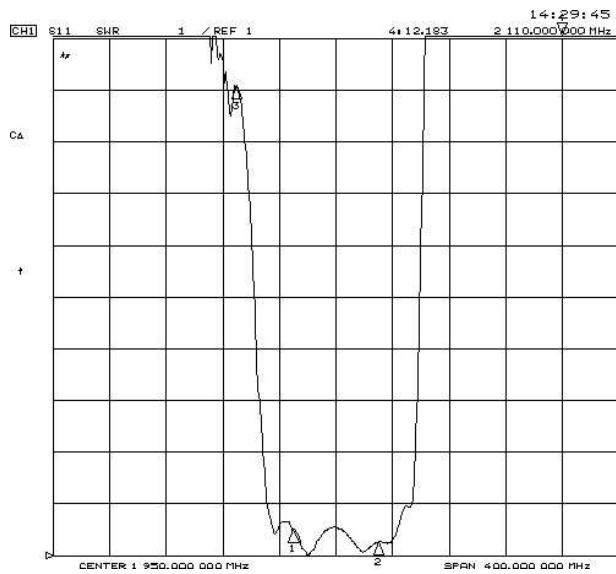


F. Frequency Characteristics :
Transfer function



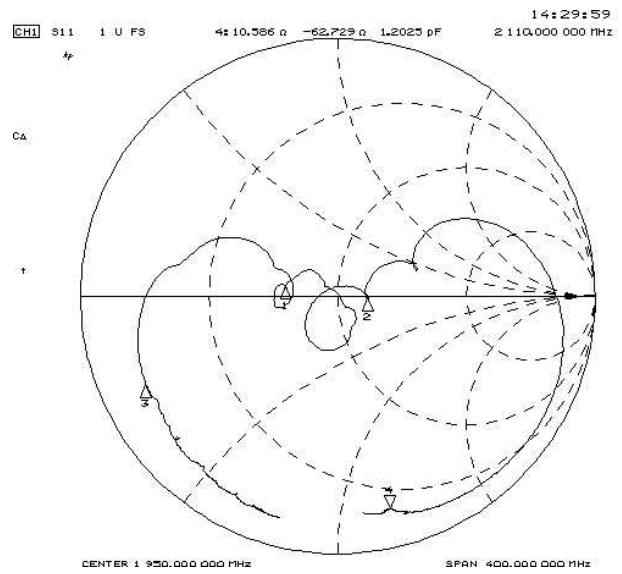
Reflections Functions :

S11 VSWR



CH1 Markers

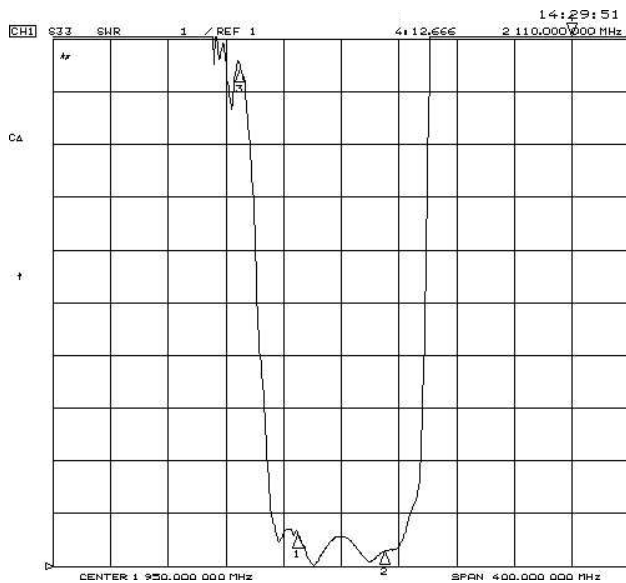
1:	1.5210	1.92000 GHz
2:	1.2649	1.98000 GHz
3:	1.0089	1.88000 GHz



CH1 Markers

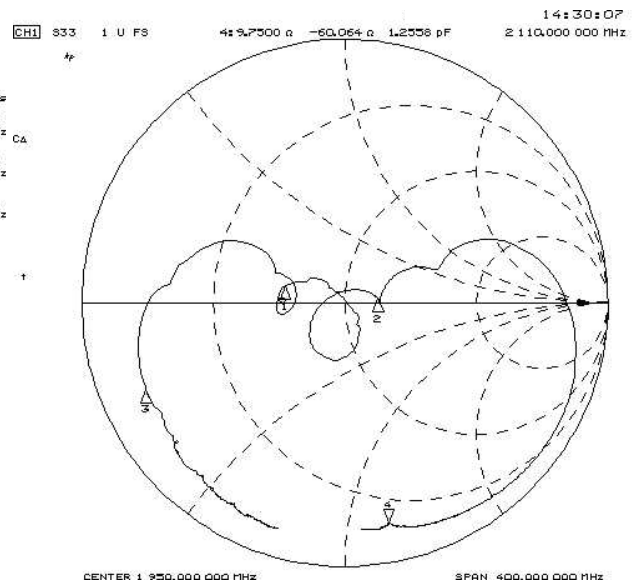
1:	33.039 Ω	2.7383 $^\circ$	1.92000 GHz
2:	63.232 Ω	-43.08 $^\circ$	1.98000 GHz
3:	5.3704 Ω	-10.748 $^\circ$	1.88000 GHz

S22 VSWR



CH1 Markers

1:	1.6182	1.92000 GHz
2:	1.2922	1.98000 GHz
3:	1.0.446	1.88000 GHz

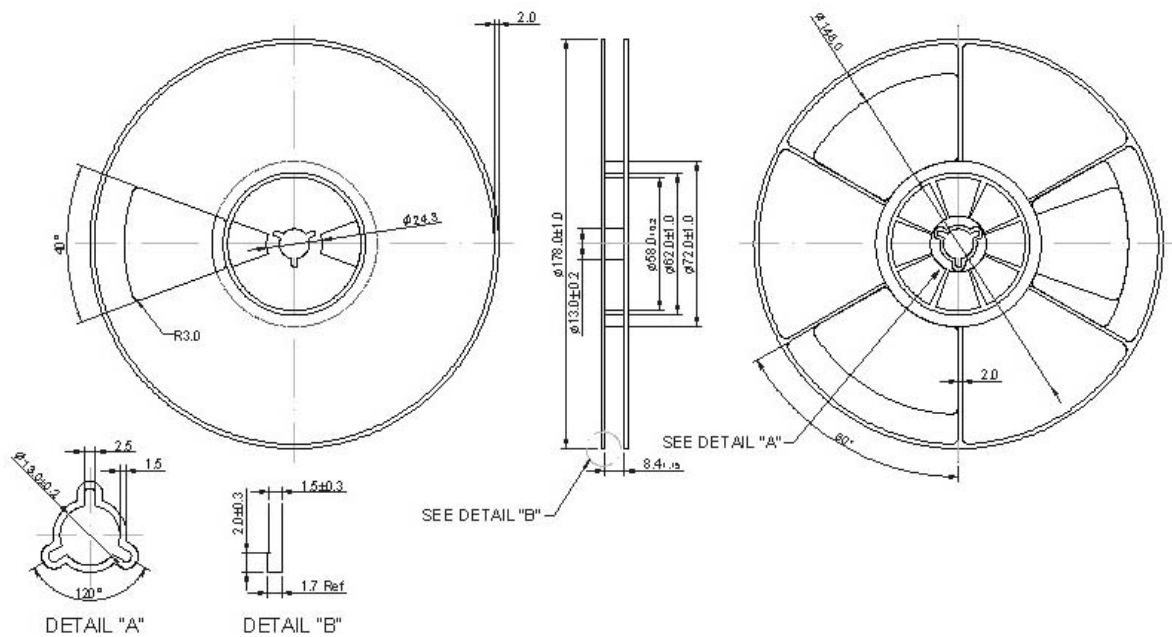


CH1 Markers

1:	31.267 Ω	4.2021 $^\circ$	1.92000 GHz
2:	64.461 Ω	2.3086 $^\circ$	1.98000 GHz
3:	5.0391 Ω	-10.224 $^\circ$	1.88000 GHz

G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

