



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date: August, 31, 2005

Product Name: SAW Filter 1960 MHz SMD 3X3 mm

TST Parts No.:TA0175H

Customer Parts No.:_____

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

Checked by:_____ Bob Chau

Approval by:_____ Francis Chen

Date:_____ 8, 31, 2005



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SAW Filter 1960 MHz for Mobile Communication

MODEL NO.: TA0175H

REV. NO.:2

A1. MAXIMUM RATING:

1. Input Power Level: 10 dB_m
2. DC voltage: 3 V
3. Operating Temperature: 25°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

B1. ELECTRICAL CHARACTERISTICS:

Item		Min.	Typ.	Max.
Center frequency	F_c (MHz)	-	1960	-
Insertion loss (1930~1990 MHz)	IL (dB)	-	2.35	4
Amplitude ripple (1930~1990 MHz)	(dB)	-	1.4	2.4
Attenuation (Reference level from 0 dB)				
D.C. ~ 1850	MHz (dB)	20	32	-
1850 ~ 1910	MHz (dB)	10	21	-
2010 ~ 2040	MHz (dB)	4.5	10	-
2040 ~ 2070	MHz (dB)	20	50	-
2070 ~ 5000	MHz (dB)	22	29	-
Input/Output VSWR (1930~1990 MHz)		-	1.7	2.05
Source impedance	Z _s (Ω)	-	50	-
Load impedance	Z _L (Ω)	-	50	-

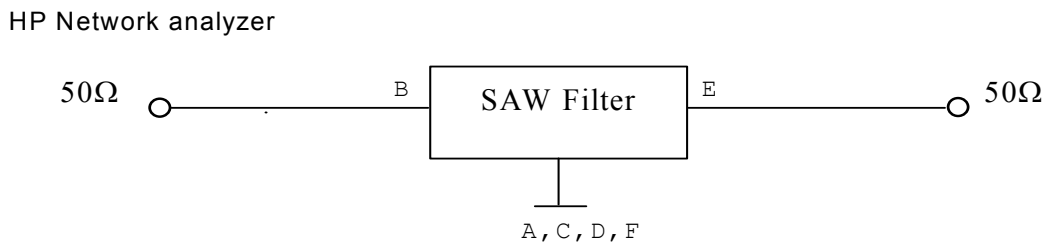
A2. MAXIMUM RATING:

1. Input Power Level: 10 dB_m
2. DC voltage: 3 V
3. Operating Temperature: -30°C to +80°C
4. Storage Temperature: -40°C to +85°C

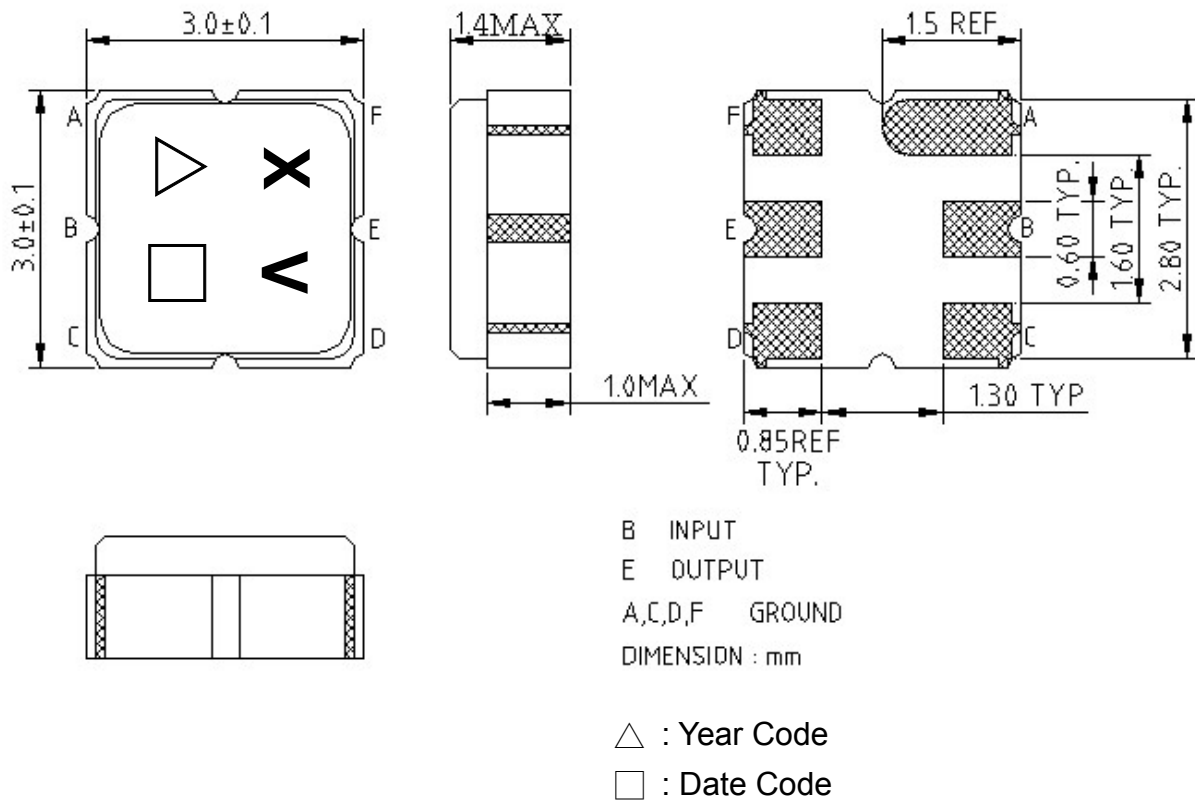
B2. ELECTRICAL CHARACTERISTICS:

Item		Min.	Typ.	Max.
Center frequency	F_c (MHz)	-	1960	-
Insertion loss (1930~1990 MHz)	IL (dB)	-	2.35	4
Amplitude ripple (1930~1990 MHz)	(dB)	-	1.4	2.4
Attenuation (Reference level from 0 dB)				
D.C. ~ 1850	MHz (dB)	20	32	-
1850 ~ 1910	MHz (dB)	10	21	-
2010 ~ 2040	MHz (dB)	4.5	10	-
2040 ~ 2070	MHz (dB)	20	50	-
2070 ~ 5000	MHz (dB)	22	29	-
Input/Output VSWR (1930~1990 MHz)		-	1.7	2.2
Source impedance	Z _s (Ω)	-	50	-
Load impedance	Z _L (Ω)	-	50	-

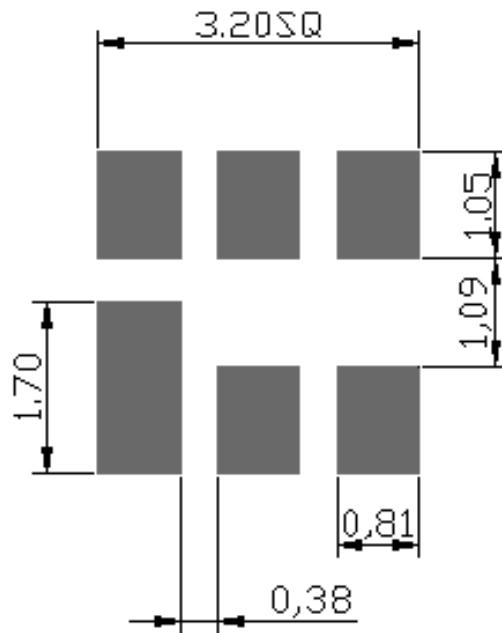
C. MEASUREMENT CIRCUIT:



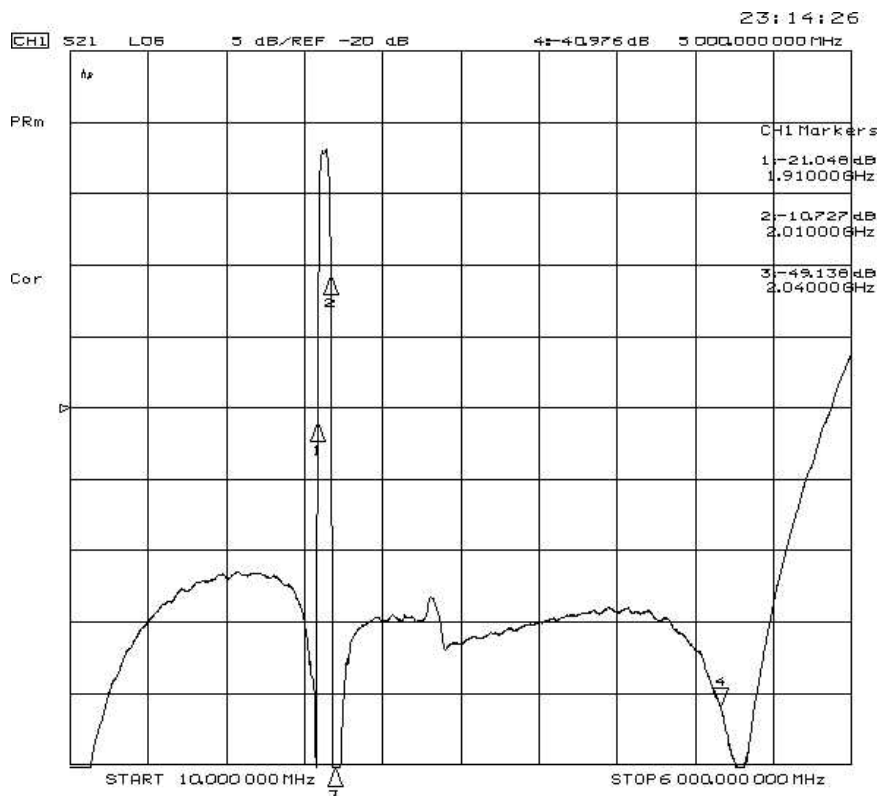
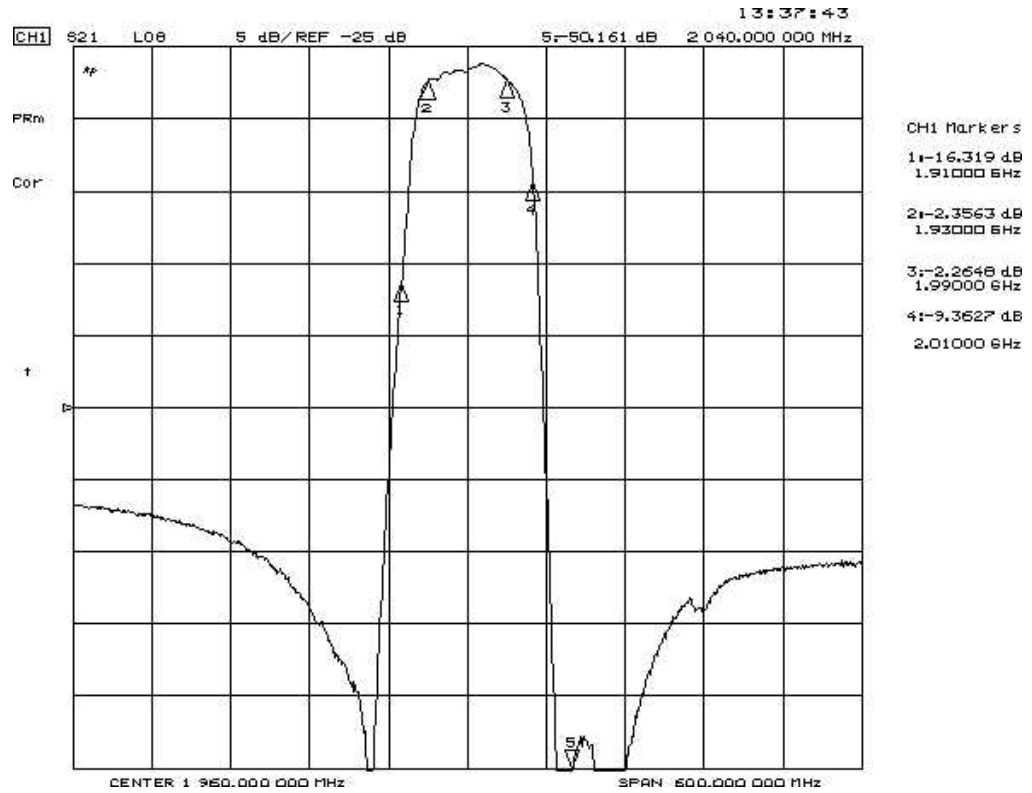
D. OUTLINE DRAWING:



E. PCB Footprint:

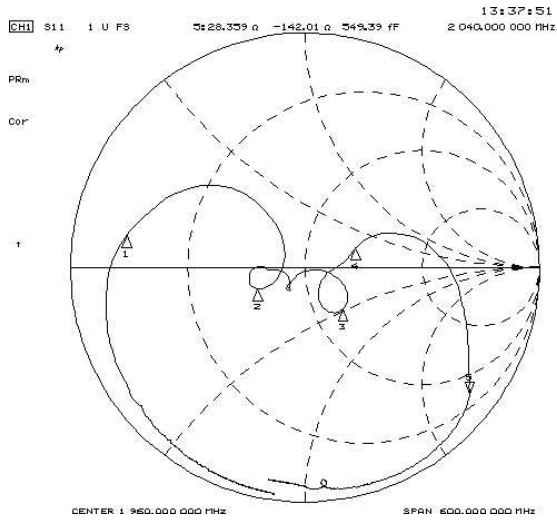


F. Frequency Characteristics : Transfer function



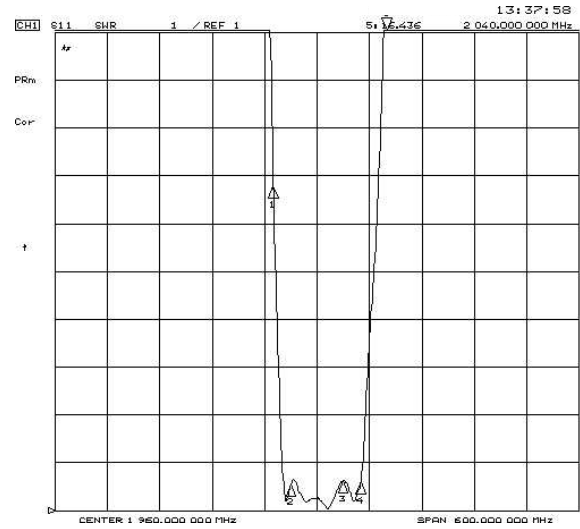
Reflections Functions :

S11



CH1 Markers

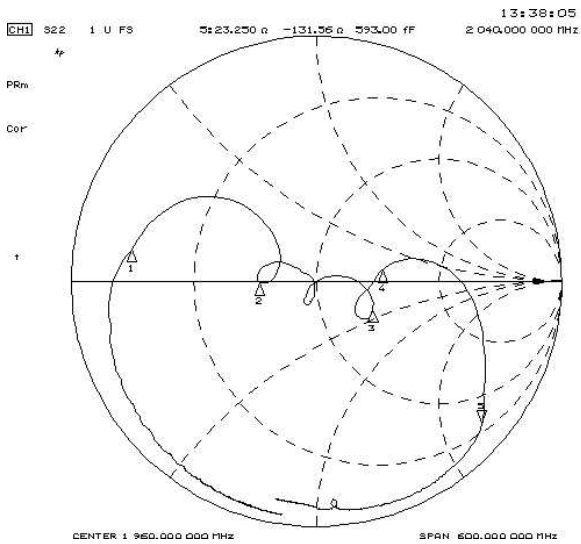
1:	6.4773 α
2:	32.911 α
3:	64.504 α
4:	76.359 α



CH1 Markers

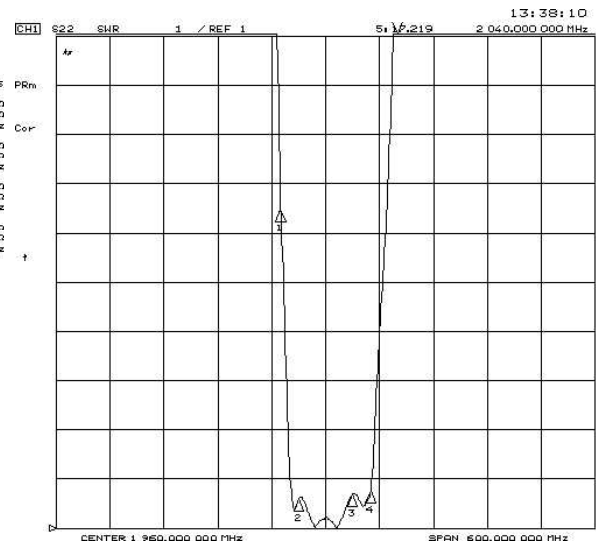
1:	7.7333
2:	1.5651
3:	1.6312
4:	1.6068

S22



CH1 Markers

1:	6.7395 α
2:	31.166 α
3:	77.234 α
4:	87.004 α

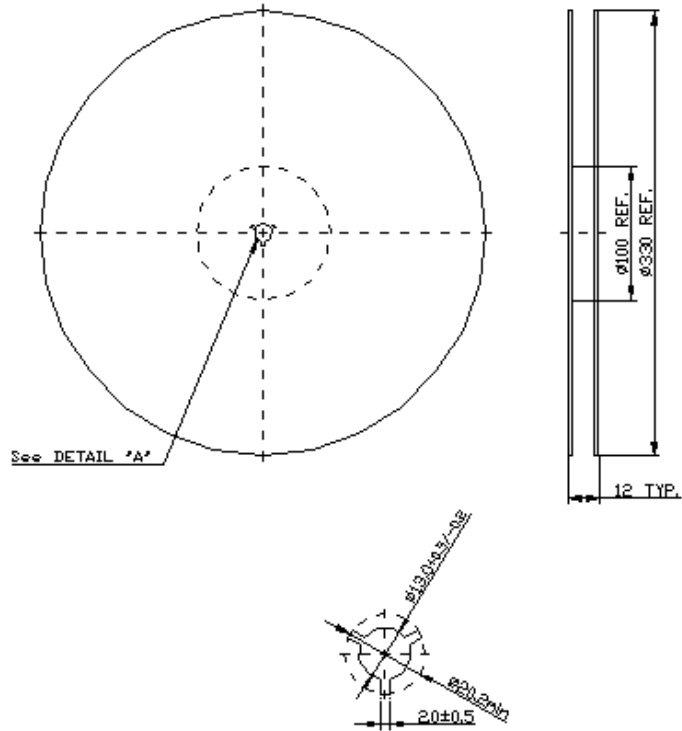


CH1 Markers

1:	7.4883
2:	1.6057
3:	1.6960
4:	1.7704

G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

