



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:

Product Name: SAW Filter 836.5MHz SMD 3.0x3.0

TST Parts No.:TA0169A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____Elvis Chiu

Approval by:_____Francis Chen

Date:_____2004/03/23



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SAW Filter 836.5 MHz

MODEL NO.: TA0169A

REV. NO.:4

A. MAXIMUM RATING:

1. Input Power Level: 10 dB_m
2. DC voltage: 0 V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -40°C to +85°C

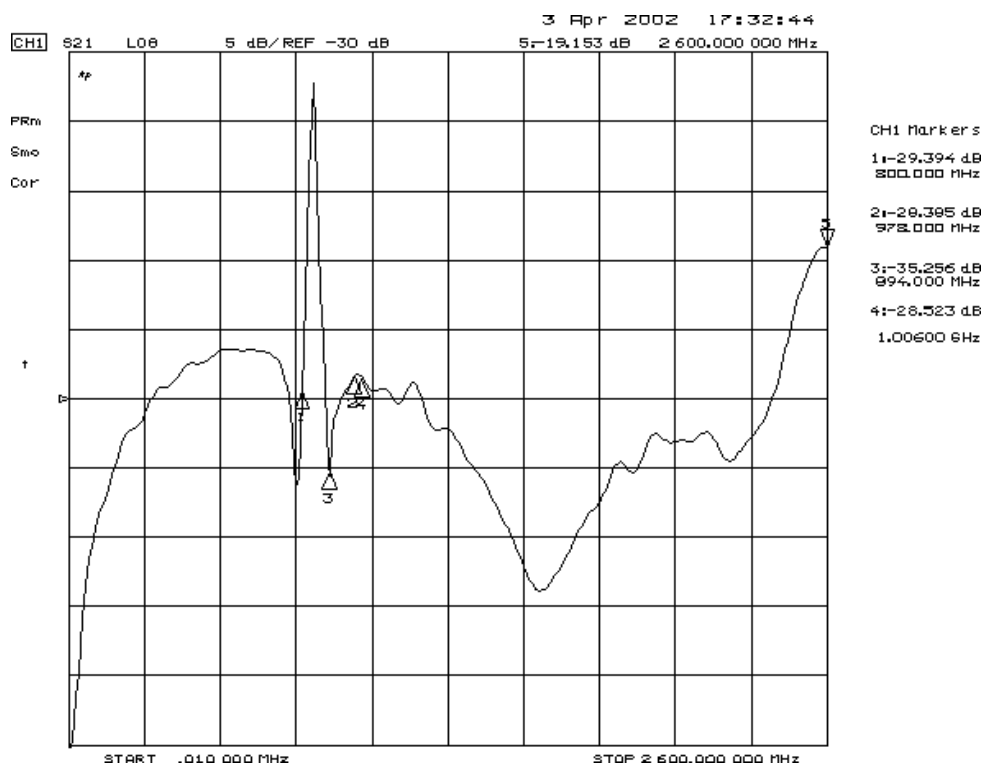
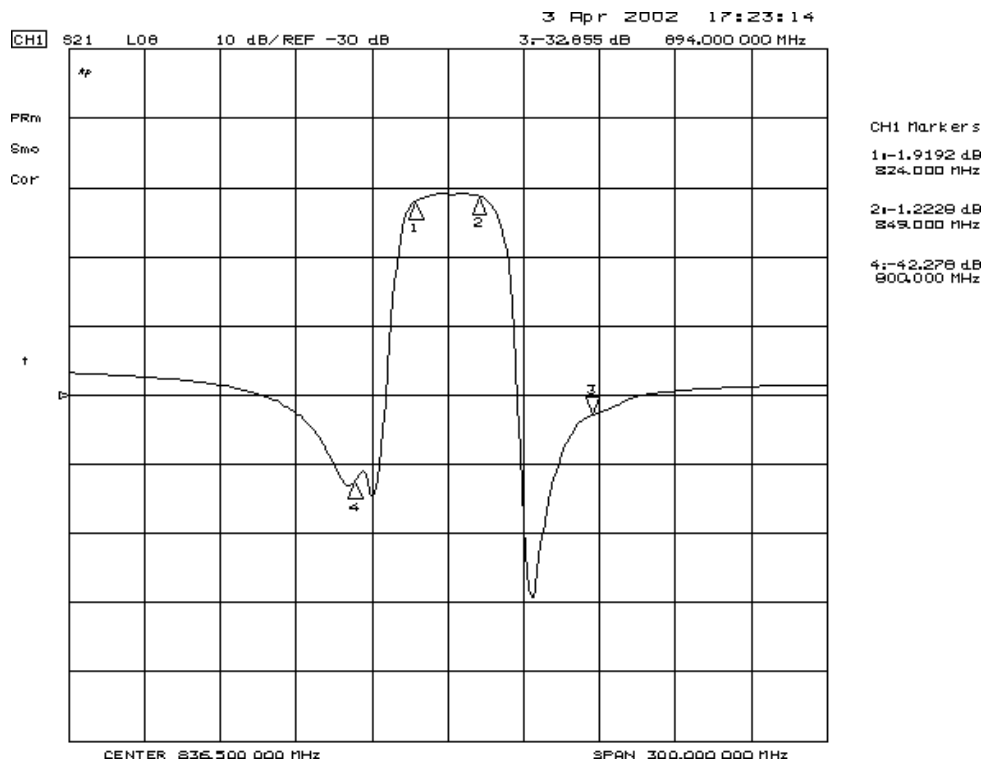
RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

Item	Min.	Typical	Max.
Center frequency F_c (dB)	-	836.5	-
Insertion loss within 824 ~849 MHz IL (dB)	-	2.1	3.0
Amplitude ripple (p-p) within 824 ~ 849 MHz (dB)	-	1.2	2.0
Attenuation (Reference level from 0 dB)			
D.C. ~ 800 MHz (dB)	23.0	26.0	-
869 ~ 894 MHz (dB)	29.0	32.0	-
978 ~ 1006 MHz (dB)	25.0	28.0	-
1050 ~ 2500 MHz (dB)	15.0	18.0	-
VSWR within 824 ~849 MHz	-	1.8	2.3
Source impedance Z_s (Ω)	-	50	-
Load impedance Z_L (Ω)	-	50	-

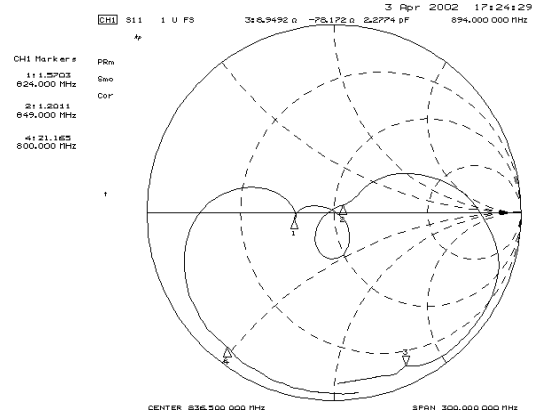
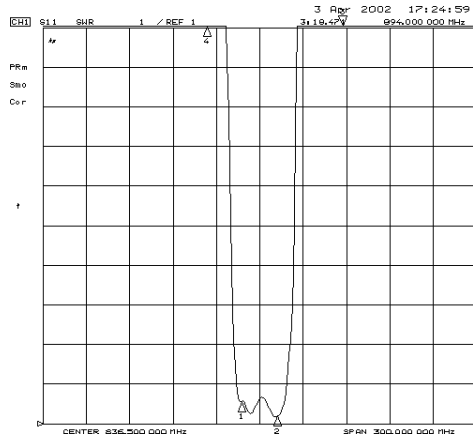
Note1. No matching network required for operation at 50 Ω

C. Frequency Characteristics :

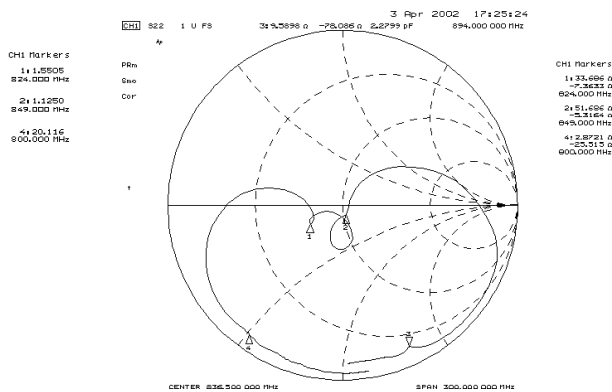
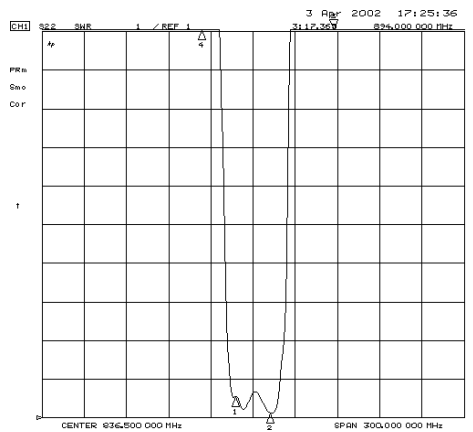


D.Reflections Functions :

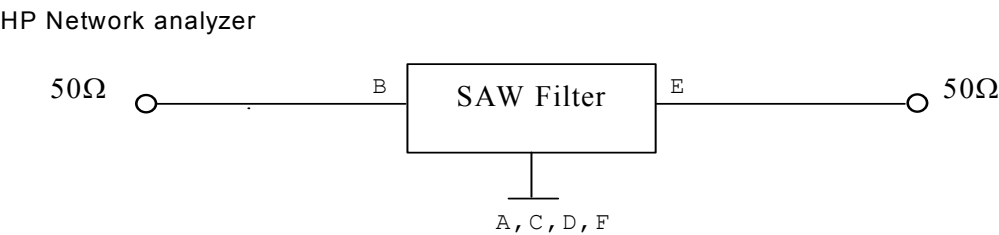
S11:



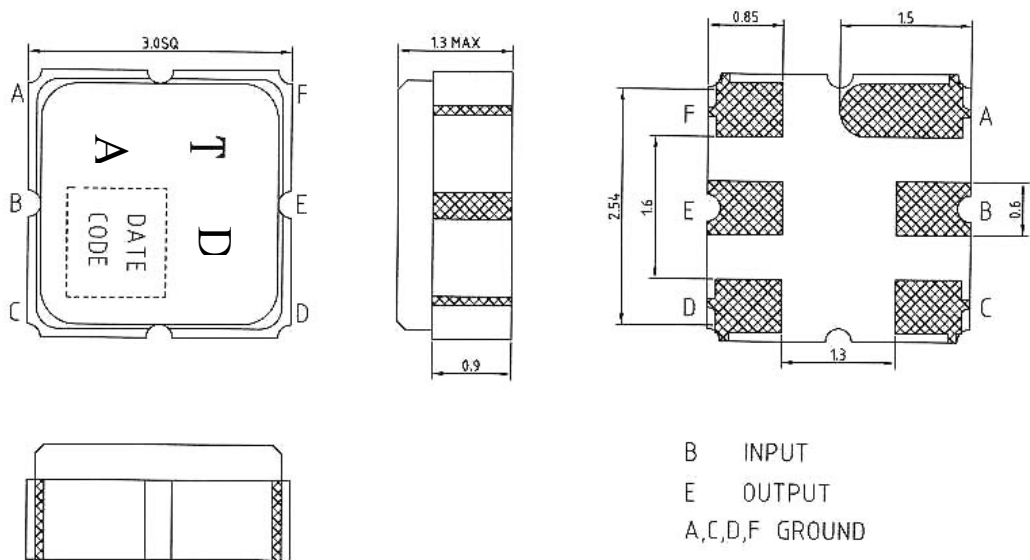
S22:



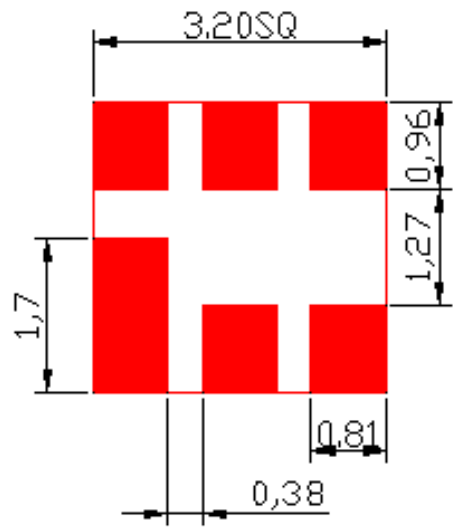
E. MEASUREMENT CIRCUIT:



F.OUTLINE DRAWING:



G. PCB Footprint:



1. REEL DIMENSION

See DETAIL "A"

12±0

Ø13.0+0.5/-0.2

Ø20.2min

20±0.5

DETAIL "A"

Note 1

0.3±0.05
2.0±0.05
4.0±0.05
 $\phi 1.5 \begin{matrix} +0.1 \\ -0.0 \end{matrix}$
A →
1.75
R0.3 (MAX.)
3.35±0.1
5.5±0.05
12.0±0.3
T.D.
B ↑ B ↑
3.35±0.1
8.0±0.05
A →
R0.5 (TYP.)
 $\phi 1.5 \pm 0.1$
SECTION A-A
SECTION B-B
DIMENSION : mm
Direction of Feed

1. Pocket position relative to sprocket hole measured as true position of pocket, not pocket hole.