



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date: Sep, 9, 2005

Product Name: SAW Filter 874.55 MHz SMD 3.8X3.8 mm

TST Parts No.:TA0512A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Bob Chau

Approval by:_____ Francis Chen

Date:_____ 9, 9, 2005



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SAW Filter 874.55 MHz

MODEL NO.: TA0512A

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 13 dBm
2. DC voltage: 5 V
3. Operating Temperature: -20°C to +70°C
4. Storage Temperature: -30°C to +85°C

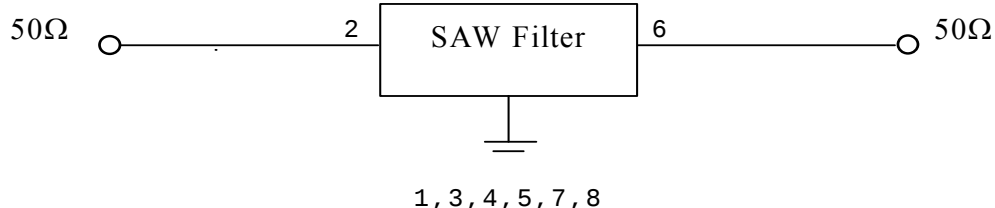
RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

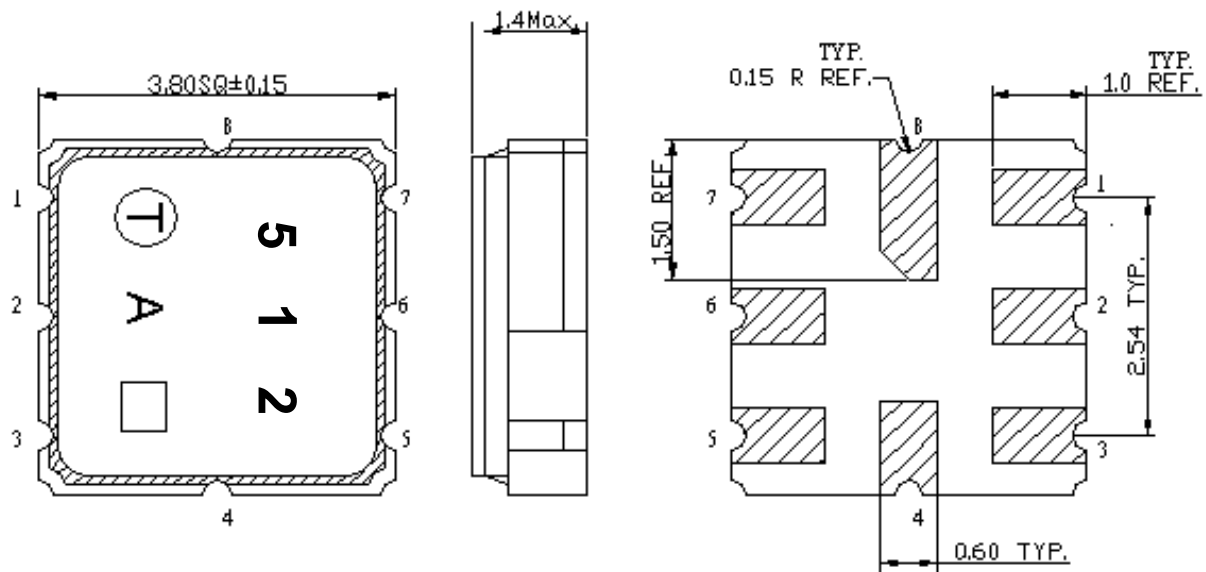
Item	Unit	Min.	Typ.	Max.
Center frequency F_o	MHz	-	874.55	-
1.5-dB Bandwidth	MHz	-	F _o ±4.6	-
Operational Bandwidth	MHz	870	-	879.1
Insertion Loss at F _o	dB	-	2.7	3.5
Amplitude Variation (870~879.1 MHz)	dB	-	0.5	1.5
Attenuation (Reference level from 0 dB)				
0 ~ 850 MHz	dB	35	59	-
850 ~ 859 MHz	dB	10	33	-
888 ~ 893 MHz	dB	10	28	-
893 ~ 902 MHz	dB	30	38	-
902 ~ 2000 MHz	dB	34	37	-
Input/Output VSWR (870~879.1 MHz)		-	1.7	2.5
Source impedance Z_s	Ω	-	50	-
Load impedance Z_L	Ω	-	50	-

C. MEASUREMENT CIRCUIT:

HP Network analyzer



D. OUTLINE DRAWING:



2 : Input

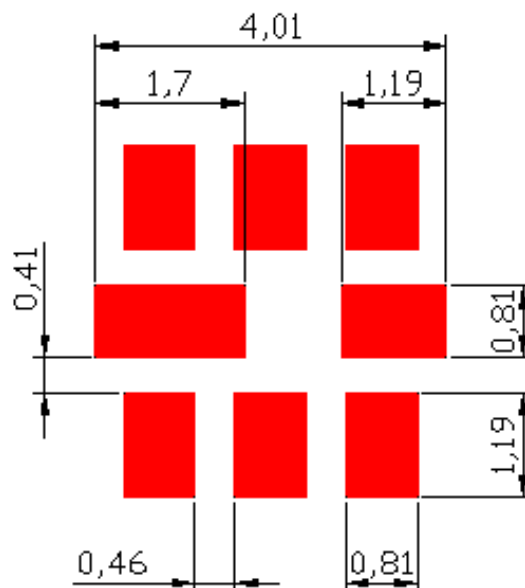
6: Output

1,3,4,5,7,8: Ground

□ : Date Code

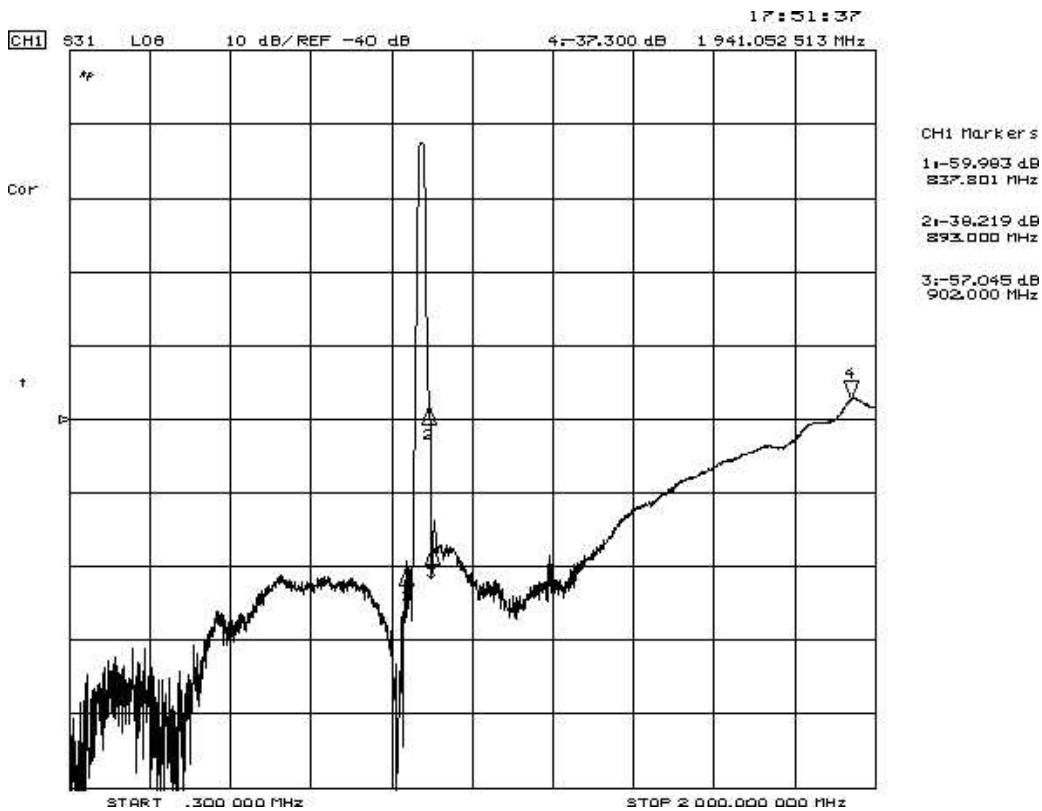
Unit: mm

E. PCB Footprint:



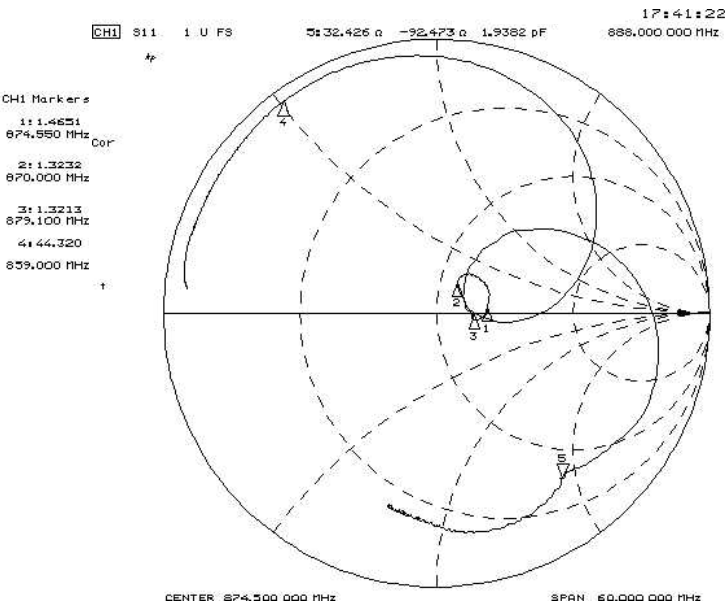
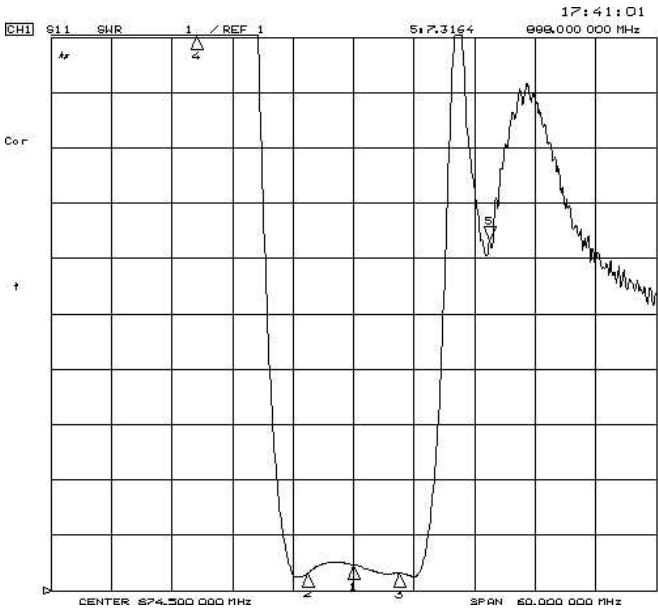
F. Frequency Characteristics :

Transfer function



Reflections Functions :

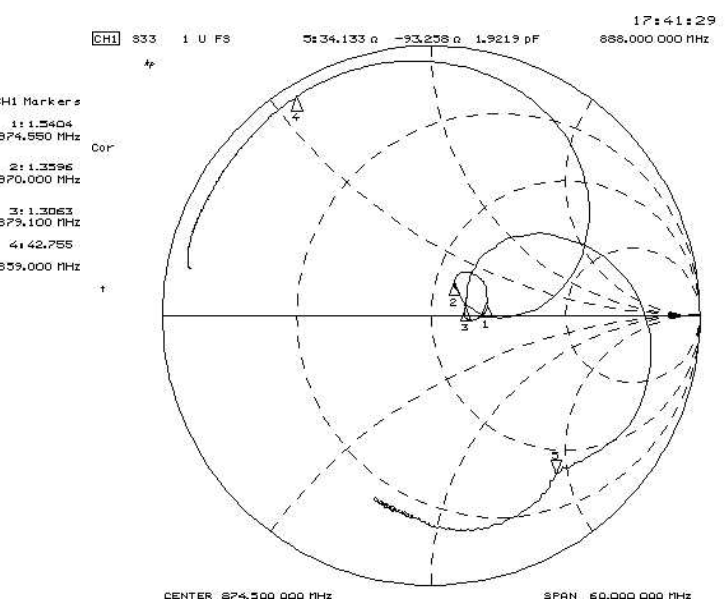
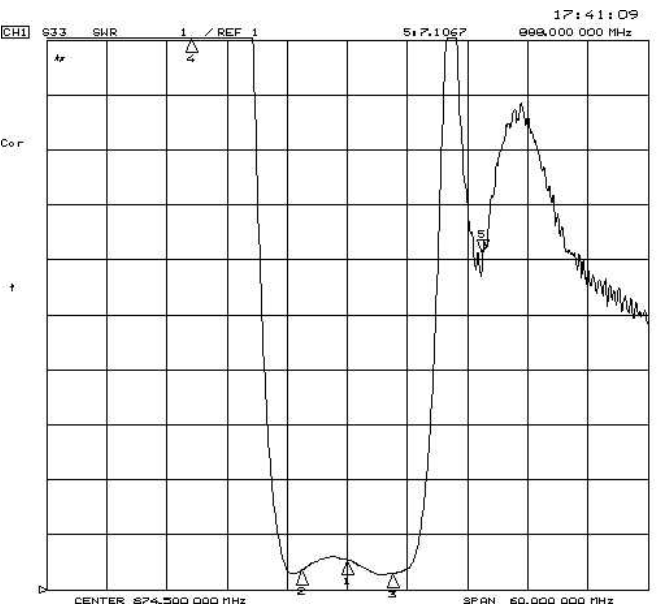
S11



CHI Markers

Marker	Frequency (MHz)	Value
1	874.550	32.426 Ω
2	870.000	-92.473 Ω
3	879.100	1.9382 pF
4	859.000	

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CHI Markers

Marker	Frequency (MHz)	Value
1	874.550	34.133 Ω
2	870.000	-93.258 Ω
3	879.100	1.9219 pF
4	859.000	

1. REEL DIMENSION

2. TAPE DIMENSION

