



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date: March, 12, 2008

Product Name: SAW Filter 2375MHz SMD 3.0X3.0 mm(BW=100MHz)

TST Parts No. :TA0819A

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Paul Ni

Approval by: _____ Francis chen

Date: _____ 03, 12, 2008



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SAW Filter 2375MHz

MODEL NO.: TA0819A

REV. NO : 2.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dB_m
2. DC voltage: 3 V
3. Operating Temperature: 0°C to +80°C
4. Storage Temperature: -40°C to +85°C

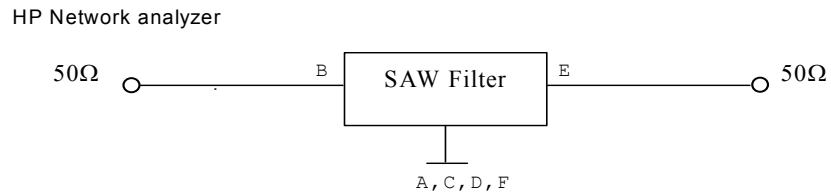
RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

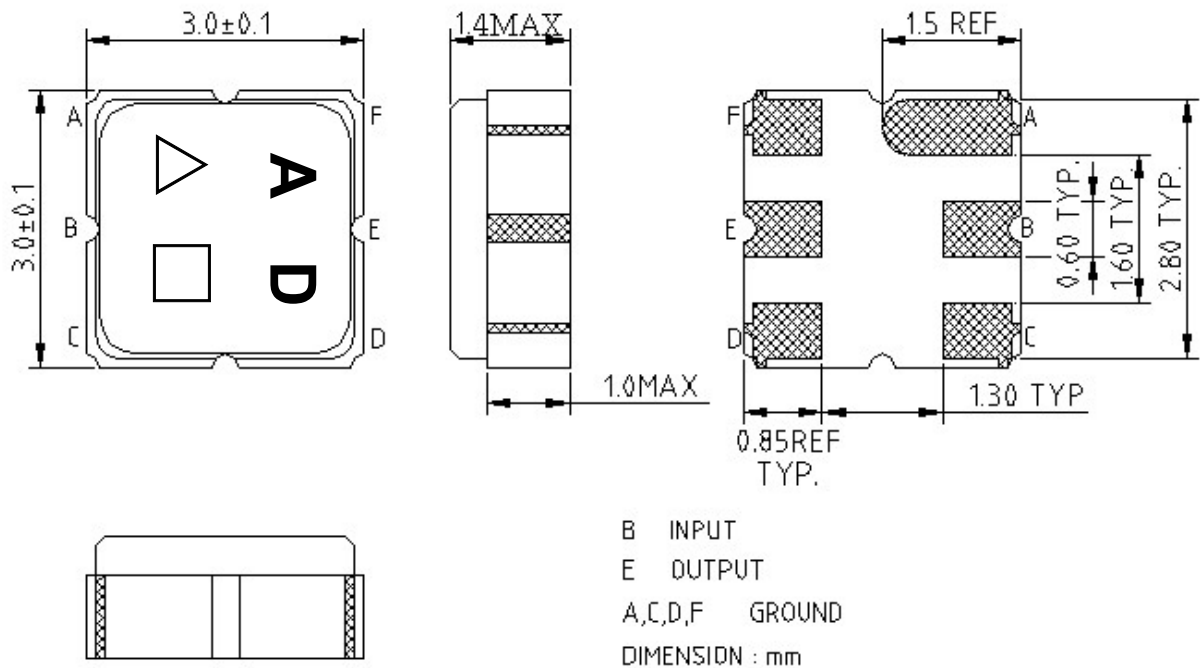
Item		Min.	Typ.	Max.
Center frequency	F _c MHz	-	2375	-
Insertion loss(2360 ~ 2390MHz)	IL dB	-	1.8	2.5
Insertion loss(2310 ~ 2360MHz)	IL dB	-	2.8	4.5
Insertion loss(2300 ~ 2310MHz)	IL dB	-	4.8	6.0
Insertion loss(2390 ~ 2400MHz)	IL dB	-	2.8	4.5
Amplitude ripple (2360~2390 MHz)	dB	-	0.6	1.0
Amplitude ripple (2310~2360 MHz)	dB	-	1.1	1.5
Amplitude ripple (2300~2310 MHz)	dB	-	1.7	2.5
Amplitude ripple (2390~2400 MHz)	dB	-	1.1	2.0
VSWR (2300~2400 MHz)			1.85	2.5
Attenuation (Reference level from 0 dB)				
D.C. ~ 2200 MHz	dB	23	29.5	-
2452 ~ 2472 MHz	dB	45	62	-
2472 ~ 4000 MHz	dB	30	35	-
Temperature Coefficient	Ppm/°C	-	-36	-
Source impedance	Z _s Ω	-	50	-
Load impedance	Z _L Ω	-	50	-

C. MEASUREMENT CIRCUIT:

50 Ohm Test circuit (single-ended / single-ended)



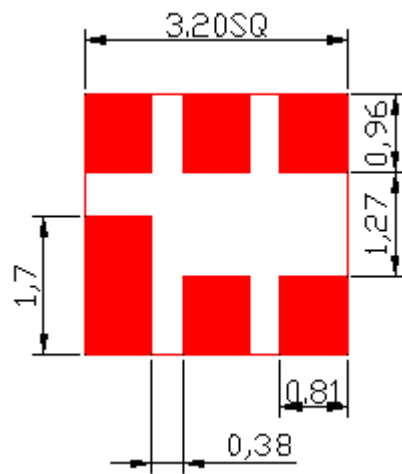
D.OUTLINE DRAWING:



△ : Year Code(2007→7,···2009→9)

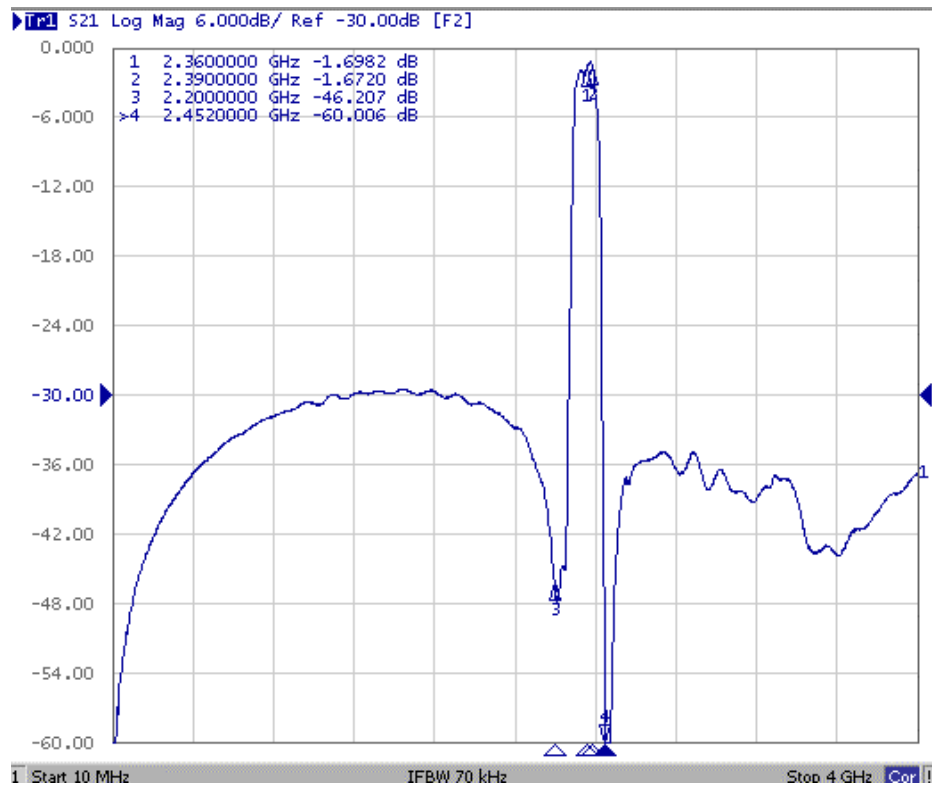
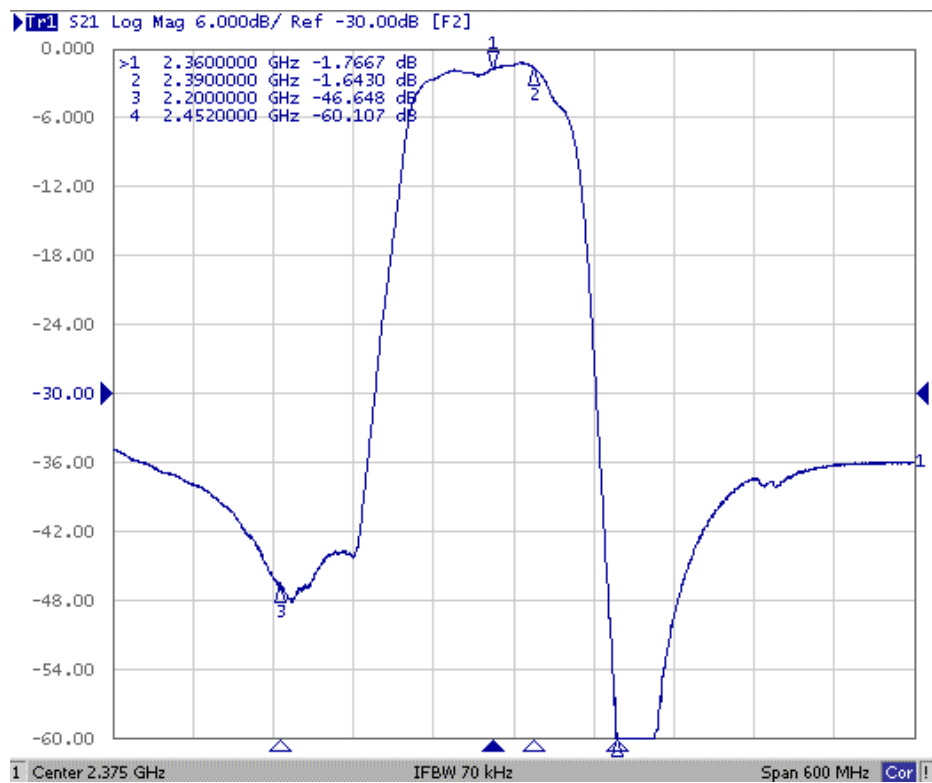
□ : Date Code(Follow the table from planner each year)

E. PCB Footprint :



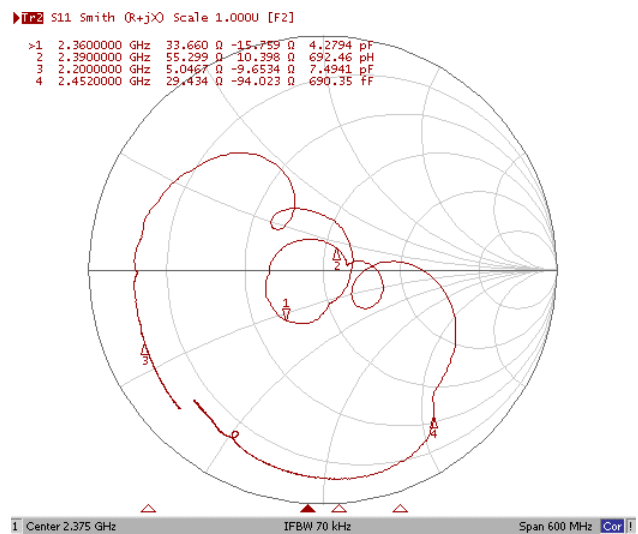
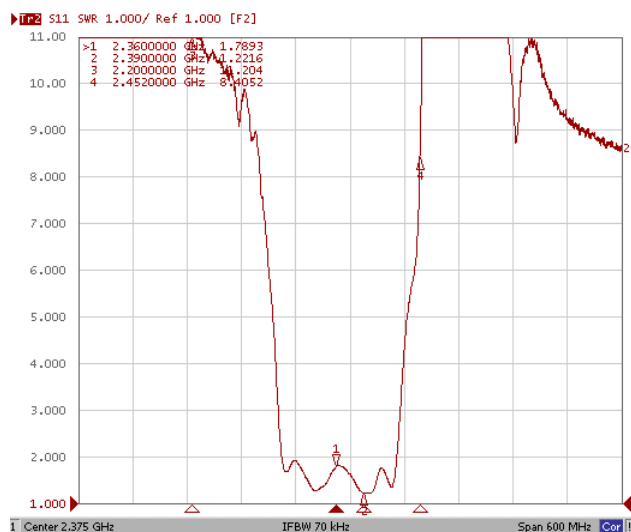
F. Frequency Characteristics :

Transfer function

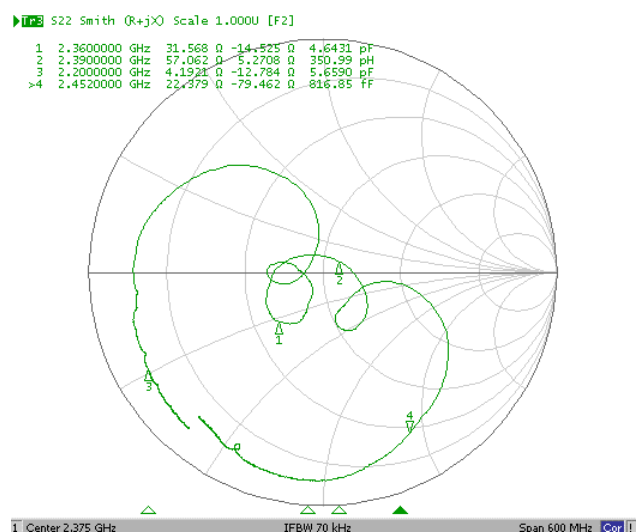
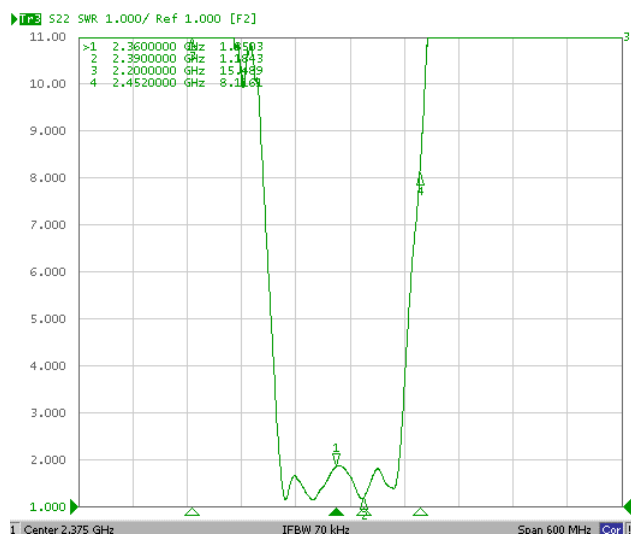


Reflection Functions :

S11



S22



1. REEL DIMENSION

See DETAIL 'A'

Technical drawing showing a circular cross-section of a structural member. The drawing includes a large outer circle and a smaller concentric dashed circle representing a central hole. A vertical dashed line and a horizontal dashed line intersect at the center. A leader line points from the text "See DETAIL 'A'" to the central hole. To the right, a vertical section view shows the member's profile with dimensions: a total width of 120, an inner hole diameter of $\phi 100$ REF., and an outer diameter of $\phi 330$ REF.

0.3 $\pm$ 0.05

2.0 $\pm$ 0.05

4.0 $\pm$ 0.05

$\phi 1.5 \begin{smallmatrix} +0.1 \\ -0.0 \end{smallmatrix}$

A

1.75

5.5 $\pm$ 0.05

12.0 $\pm$ 0.3

R0.3 (MAX.)

3.35 $\pm$ 0.1

3.35 $\pm$ 0.1

8.0 $\pm$ 0.05

B

B

A

R0.5 (TYP.)

$\phi 1.5 \pm 0.1$

1.4 $\pm$ 0.1

SECTION A-A

SECTION B-B

DIMENSION : mm

Direction of Feed

H. RECOMMENDED REFLOW PROFILE:

