



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: March, 03, 2009

Product Name: SAW Filter 453.695MHz SMD 3.8*3.8 mm (BW=5MHz)

TST Parts No.: TA0940A

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: Paul Ni *Paul*

Approval by: Francis Chen *[Signature]*

Date: 2009/03/03



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SAW Filter 453.695 MHz

MODEL NO.: TA0940A

REV. NO : 1.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dB_m
2. DC voltage: 3 V
3. Operating Temperature: +15°C to +35°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

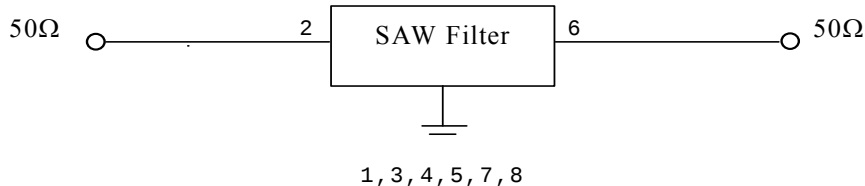
B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.
Center frequency F_o	MHz	-	453.695	-
Insertion loss (451.195 ~ 456.195MHz) IL	dB	-	2.0	3.6
Amplitude ripple(451.195 ~ 456.195MHz)	dB	-	0.3	2.1
VSWR (451.195 ~ 456.195MHz)	-	-	1.27	2.1
Attenuation (Reference level from 0 dB)				
10 ~ 397 MHz	dB	40	64	-
397 ~ 406 MHz	dB	40	75	-
406 ~ 441 MHz	dB	10	55	-
494 ~ 600 MHz	dB	40	65	-
Temperature Coefficient	Ppm/°C	-	-36	-
Source impedance Z_s	(Ω)	-	50	-
Load impedance Z_L	(Ω)	-	50	-

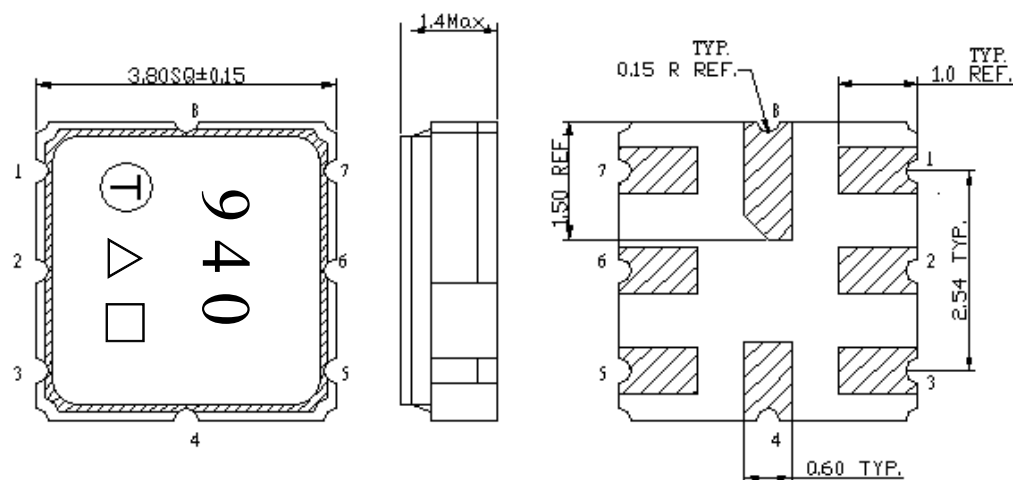
C. MEASUREMENT CIRCUIT:

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

HP Network analyzer



D.OUTLINE DRAWING:



△ Product Year Code

Year	2005 2007 2009 .	2006 2008 2010 .
Product Code	A	a

2 : Input

6: Output

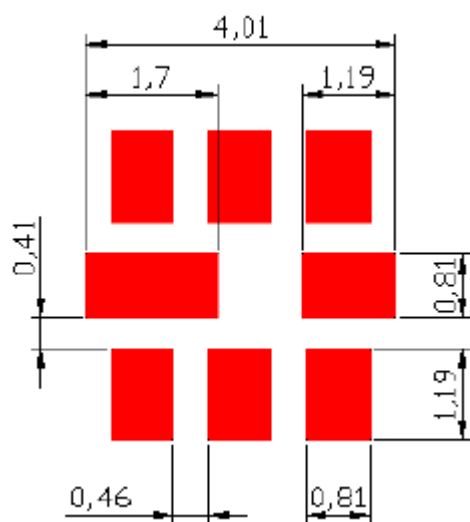
1,3,4,5,7,8 Ground

△:Year Code

☐: Date Code(Follow the table provided by planner each year.)

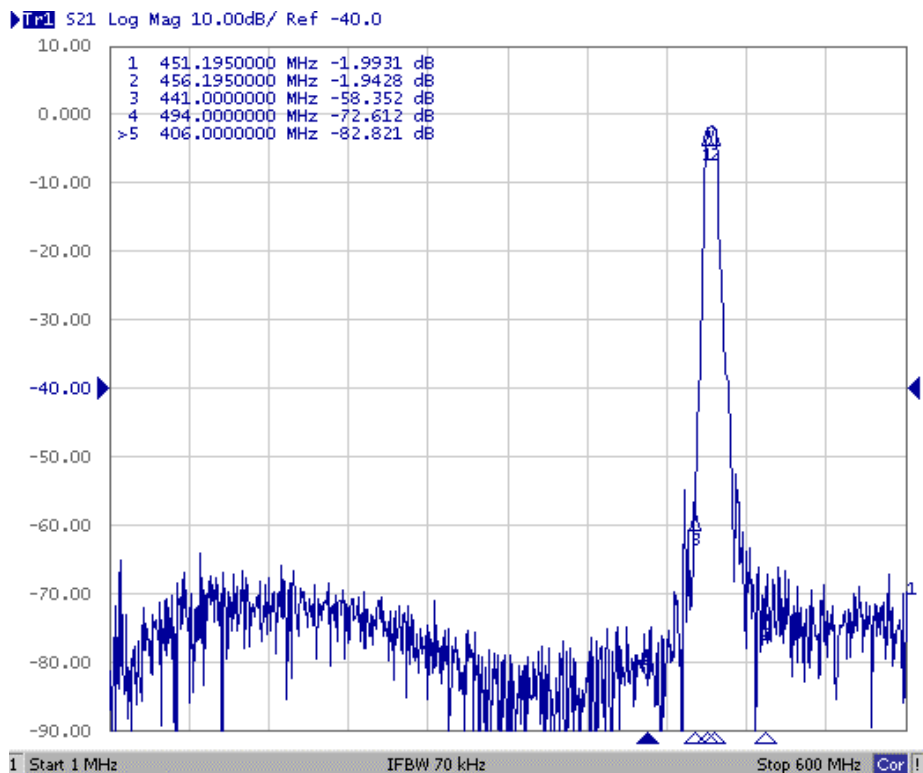
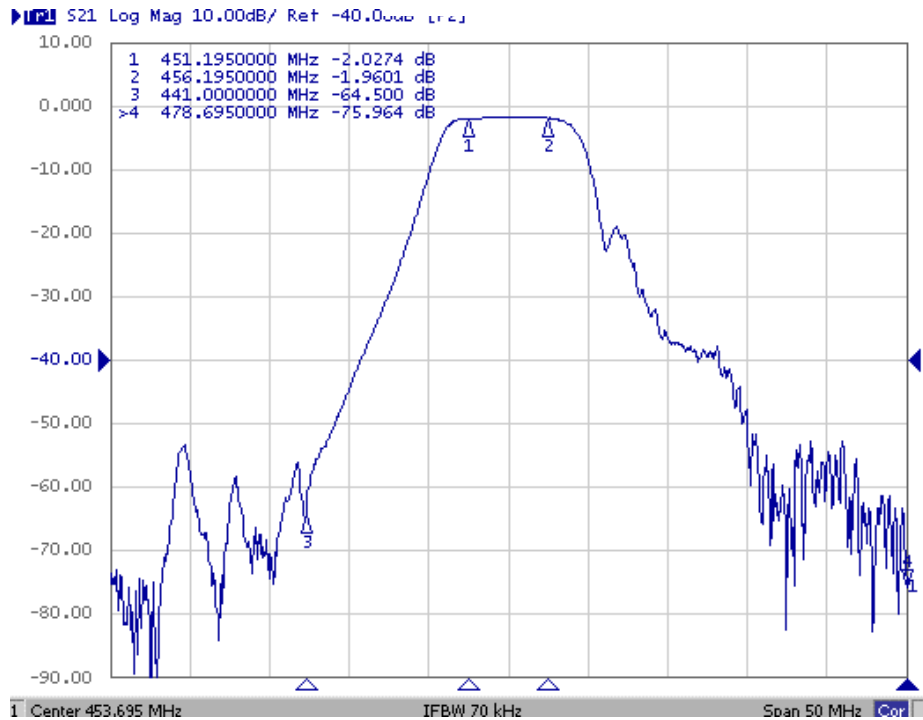
Unit: mm

E. PCB Footprint :



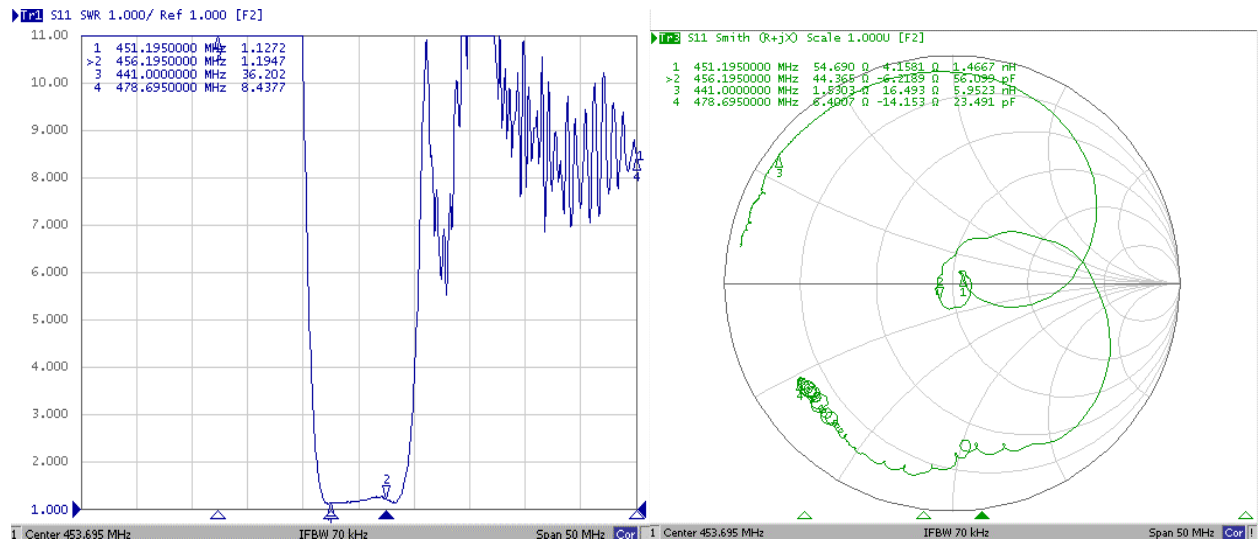
F. Frequency Characteristics :

Transfer function

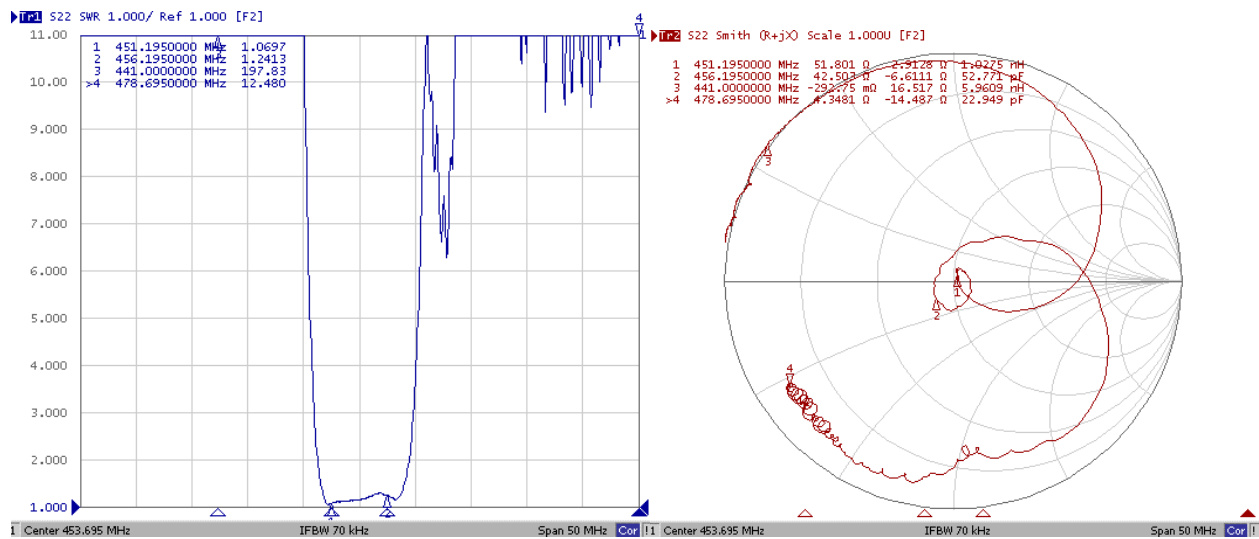


Transfer function

S11



S22



1. REEL DIMENSION

See DETAIL "A"

12

DETAIL "A"

Technical drawing showing a circular structure with a central detail 'A' and a vertical section view. The circular structure has a central hole with a diameter of $\phi 100$ REF. and a larger hole with a diameter of $\phi 330$ REF. The vertical section view shows a diameter of $\phi 13.0 \pm 0.1$ and a length of 2.0 ± 0.5 . The detail 'A' is a cross-section of the central hole, showing a diameter of $\phi 20.2 \pm 0.2$ and a length of 2.0 ± 0.5 .

Direction of Feed

H.RECOMMENDED REFLOW PROFILE:

