



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: Nov, 28, 2006

Product Name: SAW Filter 400 MHz SMD 3.8X3.8 mm

TST Parts No.: TB0464A

Customer Parts No.: _____

| |
|---------------------|
| Company: _____ |
| Division: _____ |
| Approved by : _____ |
| Date: _____ |

Checked by: _____ Bob Chau

Approval by: _____ Francis Chen

Date: _____ 11, 28, 2006



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SAW Filter 400MHz

MODEL NO.:TB0464A

REV. NO.:1

A. MAXIMUM RATING:

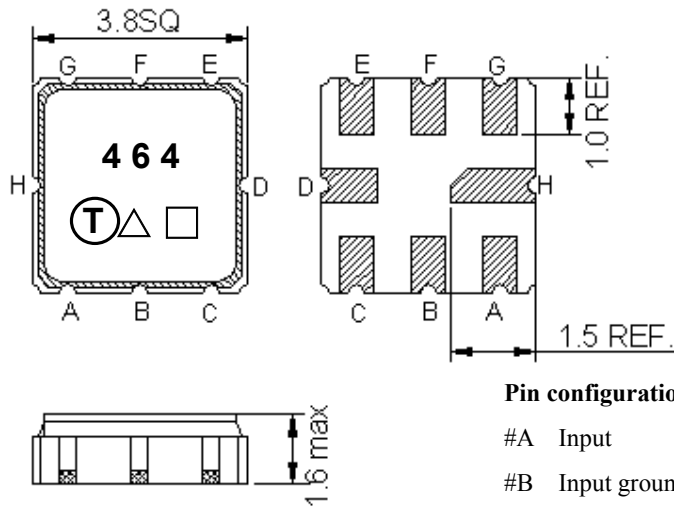
1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -20°C to +75°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

| Item | Unit | Min. | Type. | Max. | Note |
|------------------------------------------------------------------------------------|-------|---------------------------|-------|------|------|
| Center frequency, Fc | MHz | - | 400 | - | - |
| Max. Insertion loss (Fc ± 75 kHz) (excluding loss in matching elements) | dB | - | 4 | 6.0 | - |
| Max. Insertion loss (Fc ± 75 kHz) (including loss in matching elements) | dB | - | 5 | 7.5 | - |
| Passband Ripple (Fc ± 75 kHz) | dB | - | 0.4 | 2 | - |
| Group Delay Ripple (Fc ± 75 kHz) | μ sec | - | 0.6 | 2 | - |
| Relative Attenuation (relative to IL) | | | | | |
| Fc - 100 to Fc - 1.5 MHz | dB | 35 | 63 | - | - |
| Fc - 1.5 to Fc - 0.8 MHz | dB | 20 | 63 | - | - |
| Fc - 0.8 to Fc - 0.6 MHz | dB | 10 | 65 | - | - |
| Fc - 0.6 to Fc - 0.4 MHz | dB | 7 | 32 | - | - |
| Fc + 0.4 to Fc + 0.6 MHz | dB | 7 | 32 | - | - |
| Fc + 0.6 to Fc + 0.8 MHz | dB | 10 | 58 | - | - |
| Fc + 0.8 to Fc + 1.5 MHz | dB | 20 | 58 | - | - |
| Fc + 1.5 to Fc + 100 MHz | dB | 35 | 55 | - | - |
| Temperature coefficient of frequency TCf | | -0.036 ppm/K ² | | | |

C. OUTLINE DRAWING:



Pin configuration

- #A Input
- #B Input ground or balanced input
- #E Output
- #F Output ground or balanced output
- #C,D,G,H To be grounded

△ Year code

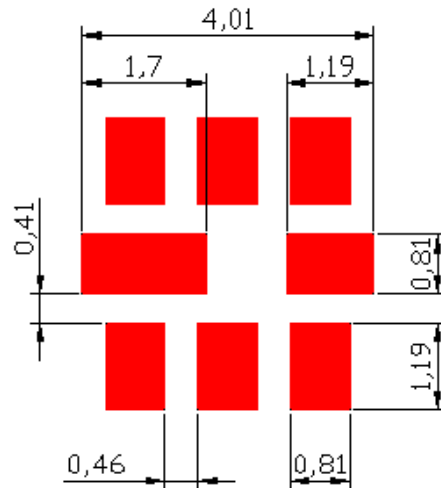
□ Date code

Unit mm

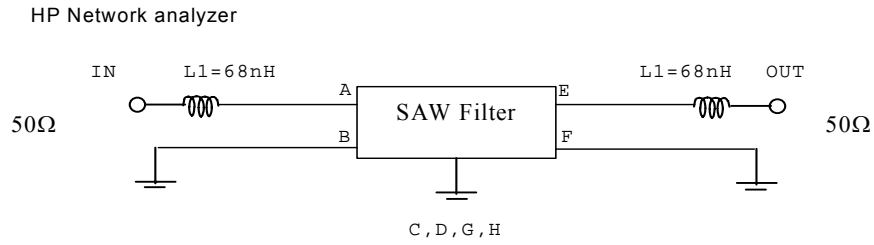
Product Year Code

| Year | 2001 | 2002 | 2003 | 2004 |
|--------------|------|------|----------|----------|
| | 2005 | 2006 | 2007 | 2008 |
| Product Code | B | b | <u>B</u> | <u>b</u> |

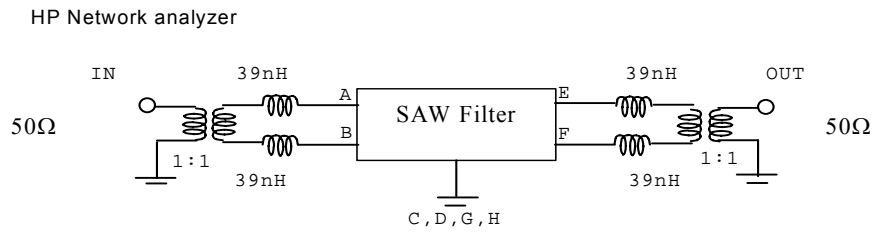
D. PCB Footprint:



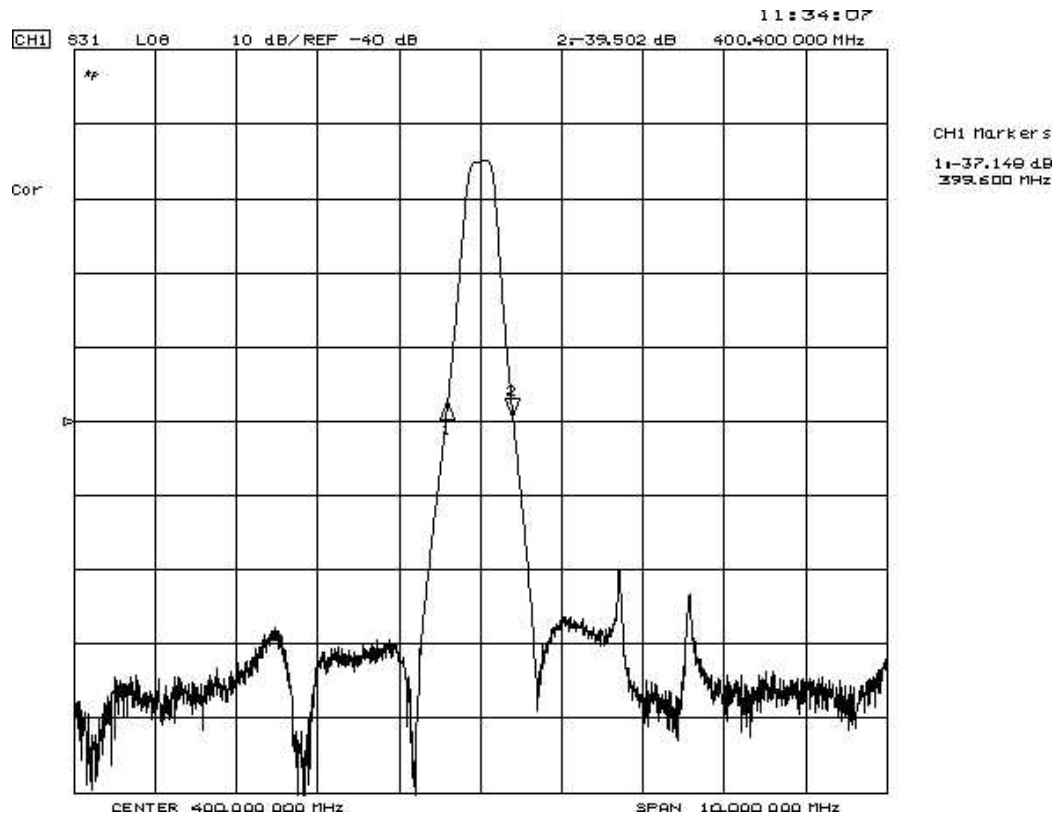
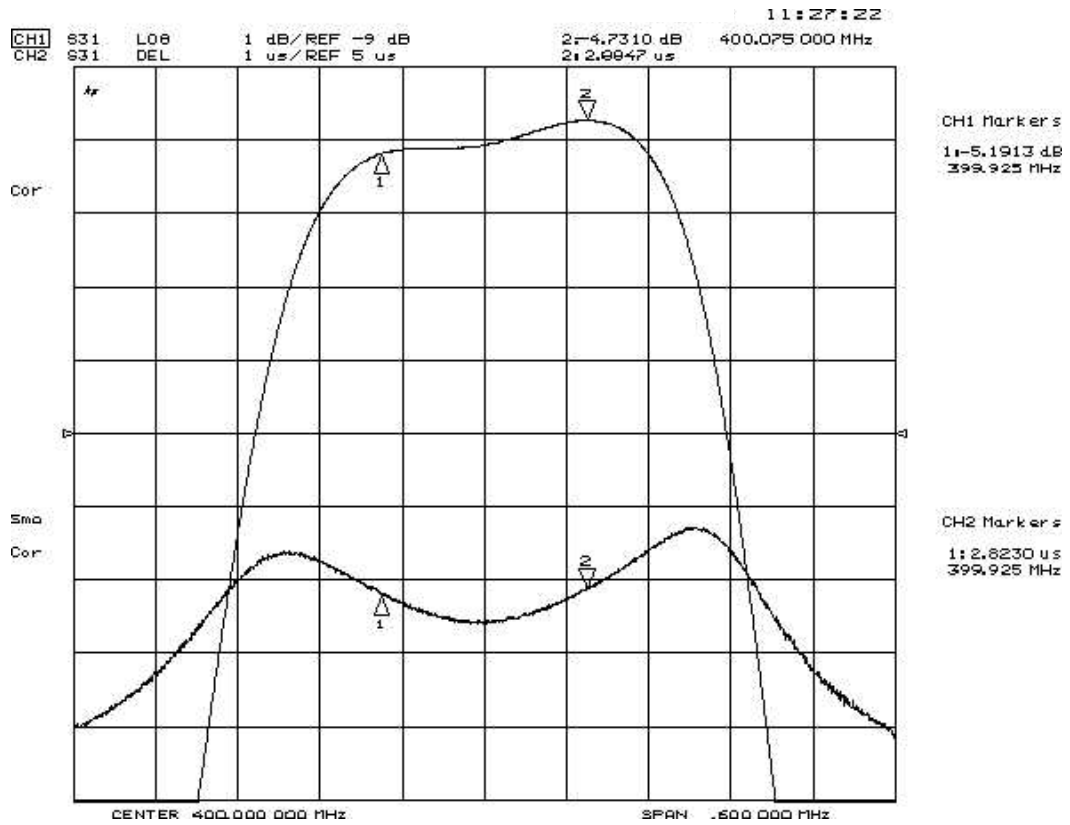
**E. MEASUREMENT CIRCUIT:
50 Ohm Test circuit (single-ended / single-ended)**



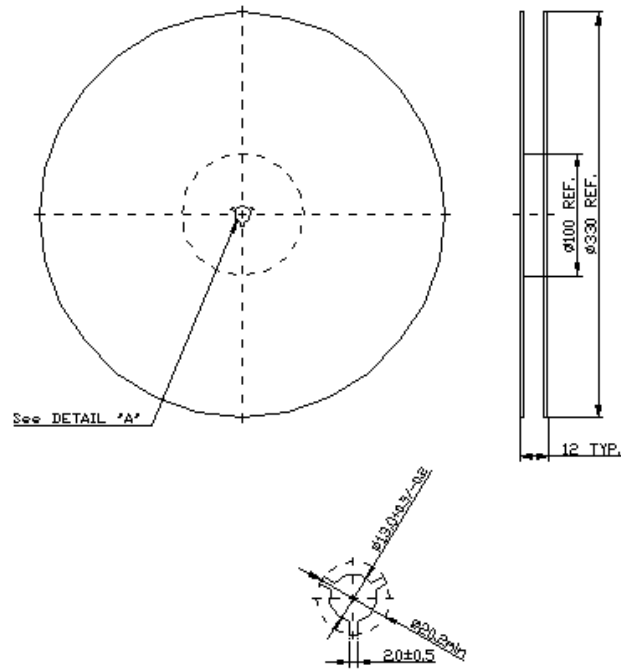
50 Ohm Test circuit (balanced-ended / balanced-ended)



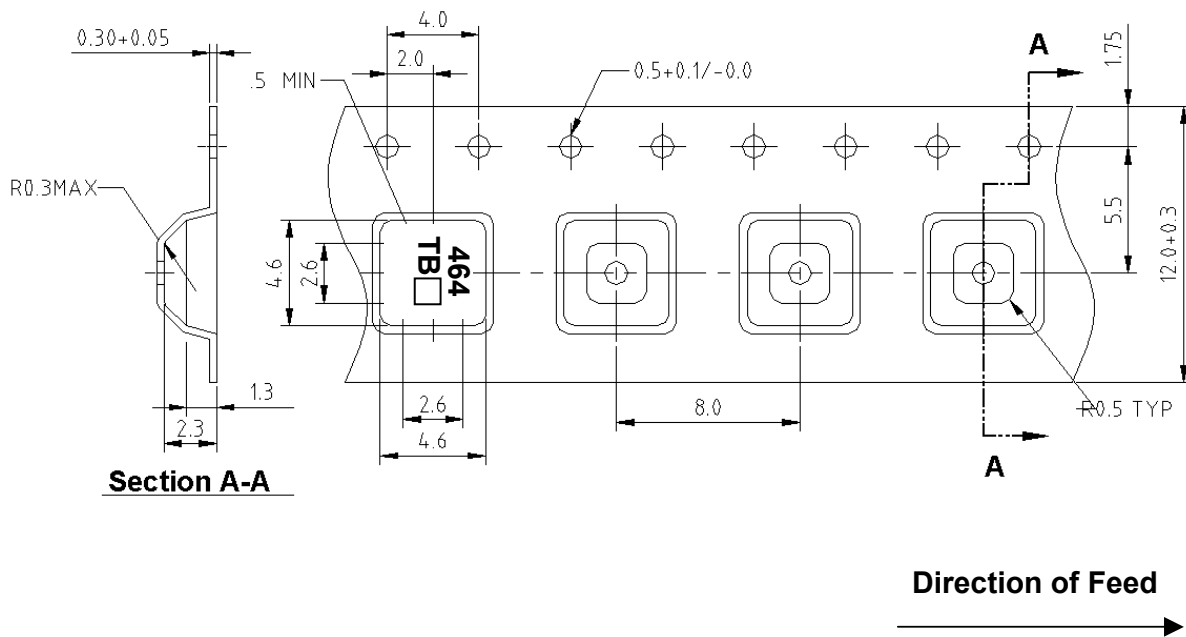
F. Frequency Characteristics :



G. PACKING:
1. REEL DIMENSION



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

