



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date: Feb, 4, 2005

Product Name: SAW Filter 163 MHz SMD 5.0x7.0 mm

TST Parts No.:TB0276A

Customer Parts No.: _____

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

Checked by: _____ Bob Chau

Approval by: _____ Francis Chen

Date: _____ Feb, 4, 2005



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SAW Filter 163MHz

MODEL NO.:TB0276A

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 5V
3. Operating Temperature: -30°C to 65°C
4. Storage Temperature: -40°C to 85°C

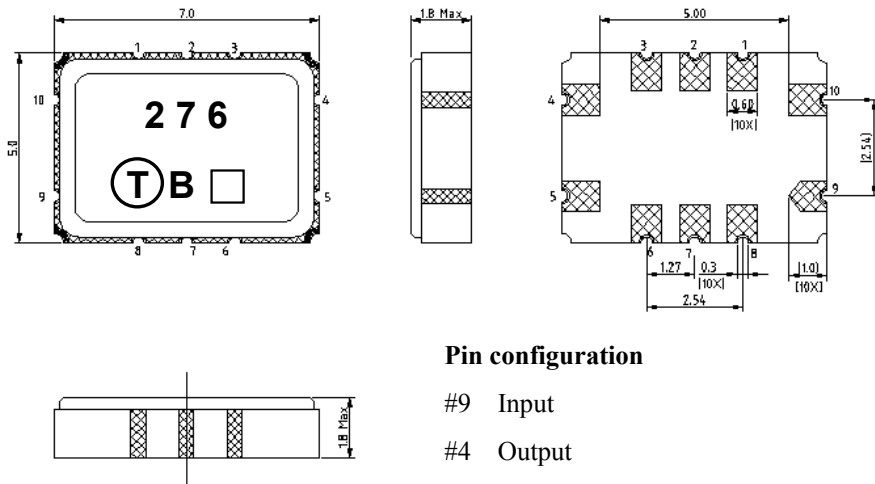
RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS: (operating temperature : 25°C)

| Item | Unit | Min. | Type. | Max. | Note |
|--|------|------|-------|------|------|
| Center frequency, Fc | MHz | - | 163 | - | 1 |
| Minimum Insertion Loss, (Fc ±12.5KHz) IL | dB | - | 3.4 | 6.0 | 1 |
| Passband Ripple (Fc ±12.5KHz) | dB | - | 0.1 | 1.0 | 1 |
| Group delay ripple (Fc ±12.5KHz), GD | μs | - | 0.4 | 2.5 | 1 |
| Attenuation:(Reference level from Min IL) | | | | | |
| Fc - 10 ~ Fc - 2 MHz | dB | 55 | 65 | - | - |
| Fc - 2 ~ Fc - 1 MHz | dB | 50 | 70 | - | - |
| Fc - 1 ~ Fc - 0.35 MHz | dB | 40 | 57 | - | - |
| Fc - 0.35 ~ Fc - 0.1 MHz | dB | 8 | 21 | - | - |
| Fc + 0.1 ~ Fc + 0.35 MHz | dB | 8 | 21 | - | - |
| Fc + 0.35 ~ Fc + 1 MHz | dB | 40 | 57 | - | - |
| Fc + 1 ~ Fc + 2 MHz | dB | 50 | 70 | - | - |
| Fc + 2 ~ Fc + 10 MHz | dB | 55 | 60 | - | - |

Note1. Considering -13 KHz frequency shift from -30°C to +65°C

C. OUTLINE DRAWING:

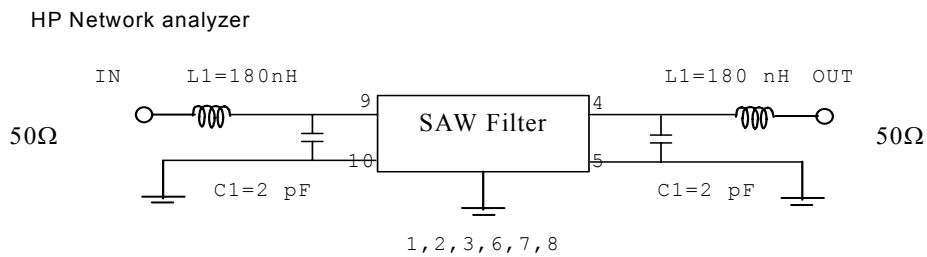


Pin configuration

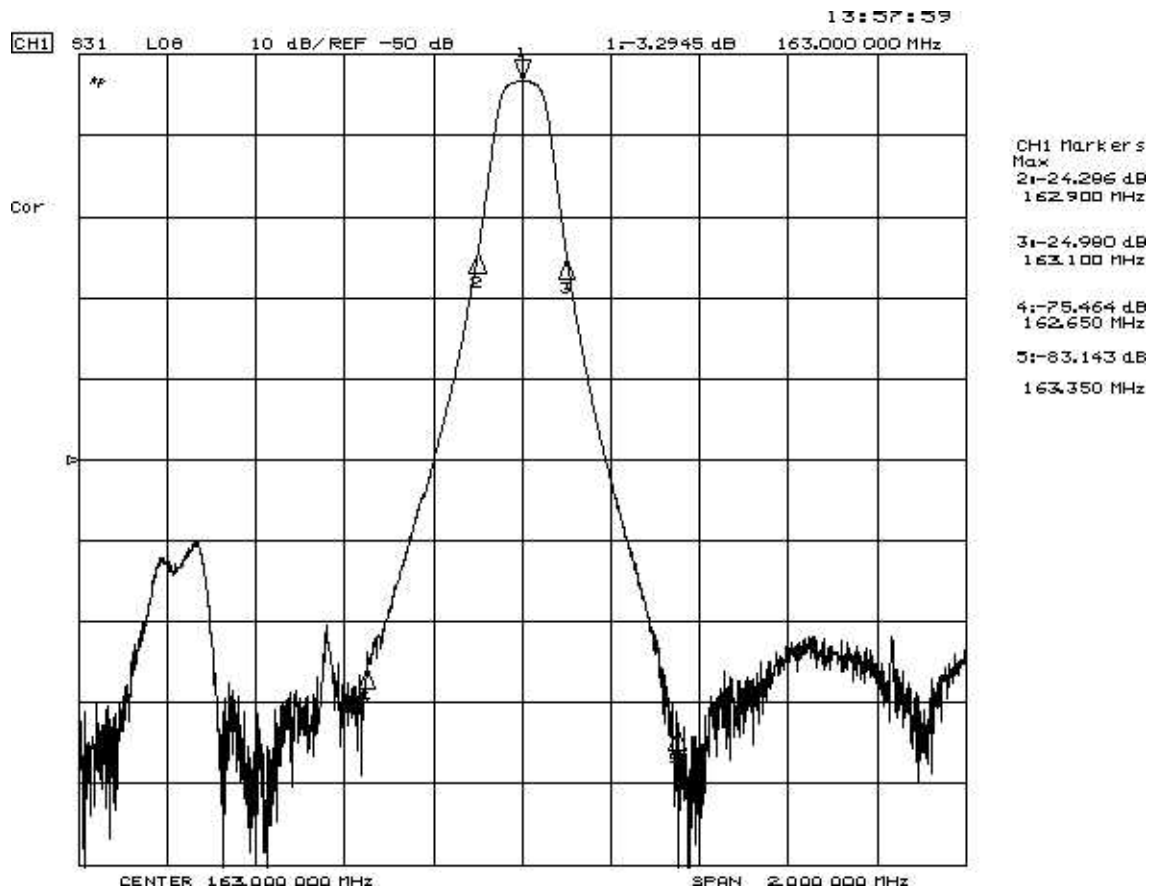
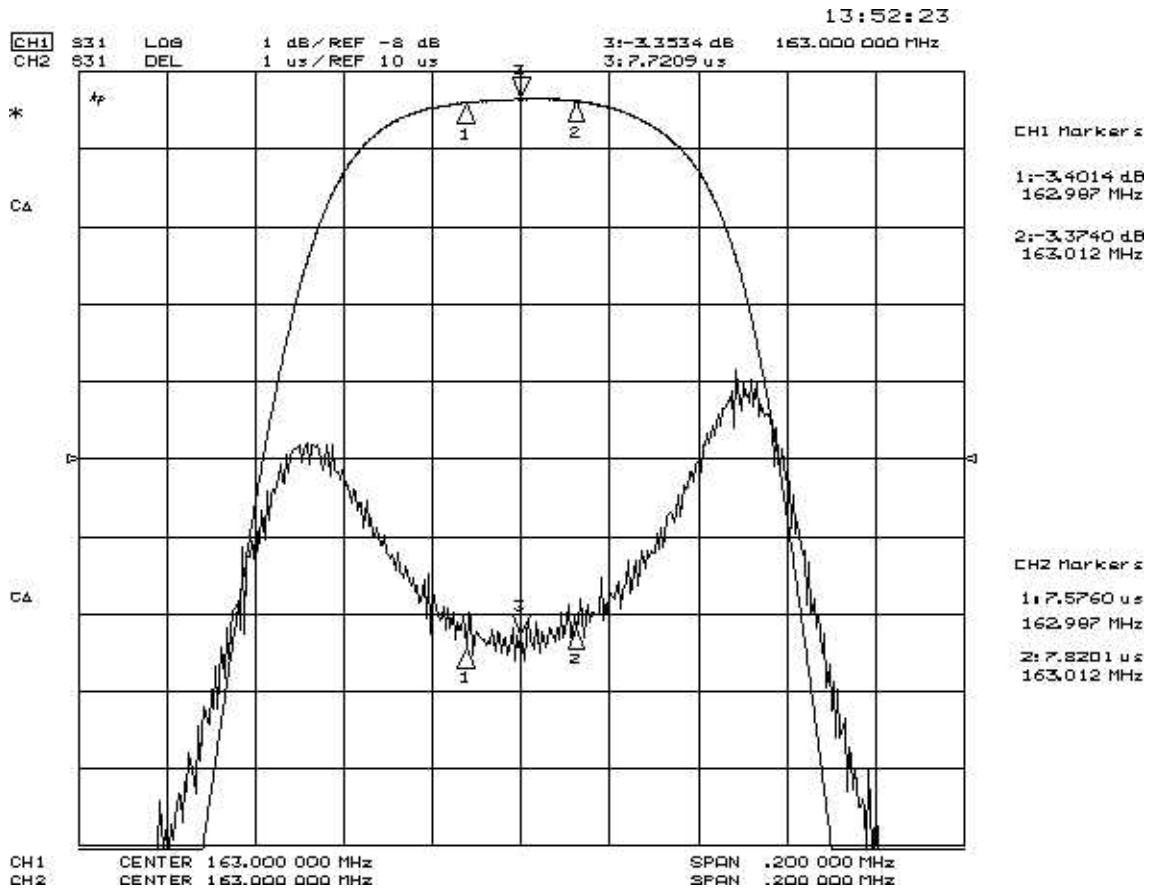
- #9 Input
- #4 Output
- #10 Balance input or input ground
- #5 Balance output or output ground
- #1,2,3,6,7,8 To be grounded
- Date code
- Unit mm

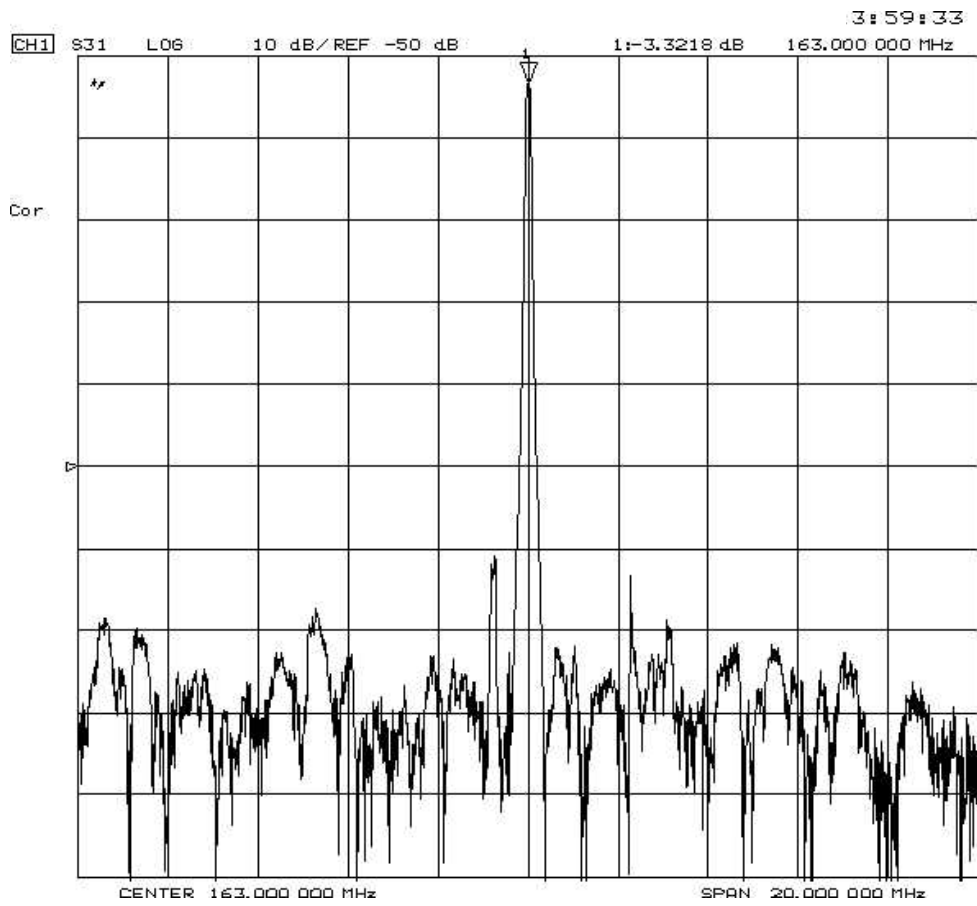
D. MEASUREMENT CIRCUIT:

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

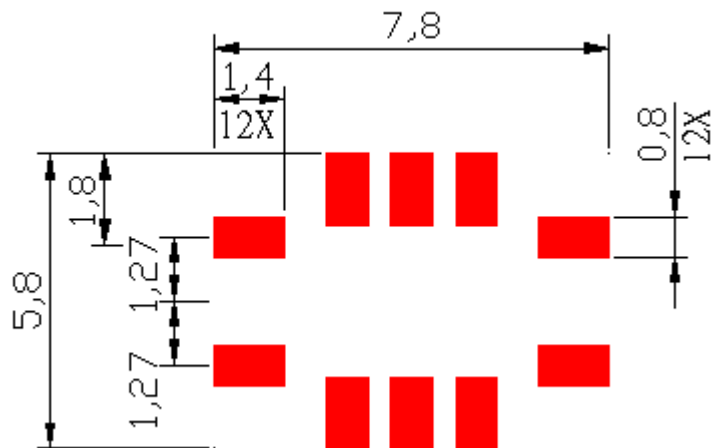


E. Frequency Characteristics :



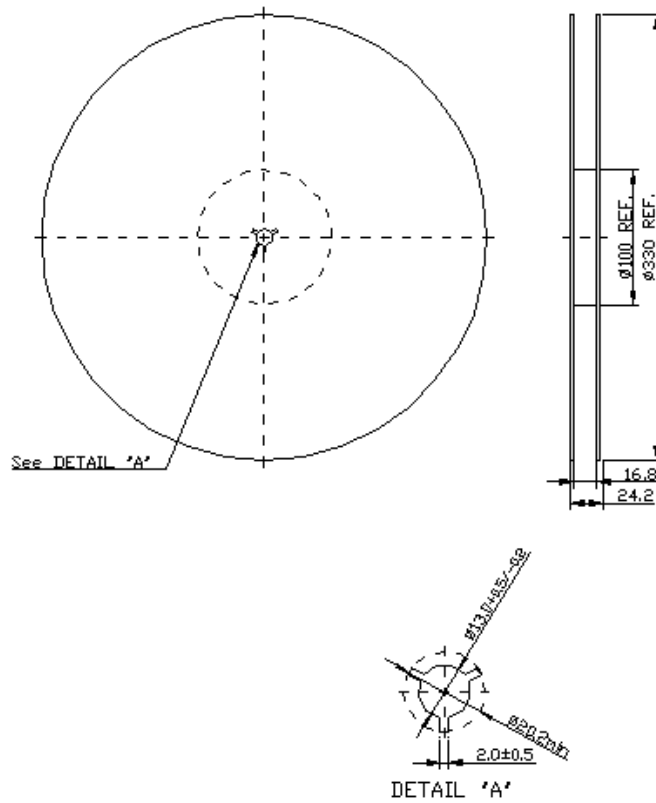


F. PCB Footprint:



G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

