



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date: Jul, 23, 2002

Product Name: SAW Filter 1960MHz SMD 3.0 mm SQ

TST Parts No.: :TA0175A

Customer Parts No.: _____

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

Checked by: _____ Bob Chau

Approval by: _____ Vincent Lee

Date: _____ Jul, 23, 2002



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SAW Filter 1960 MHz for Mobile Communication

MODEL NO.: TA0175A

REV. NO.:2.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dB_m
2. DC voltage: 0 V
3. Operating Temperature: -30°C to +80°C
4. Storage Temperature: -40°C to +85°C

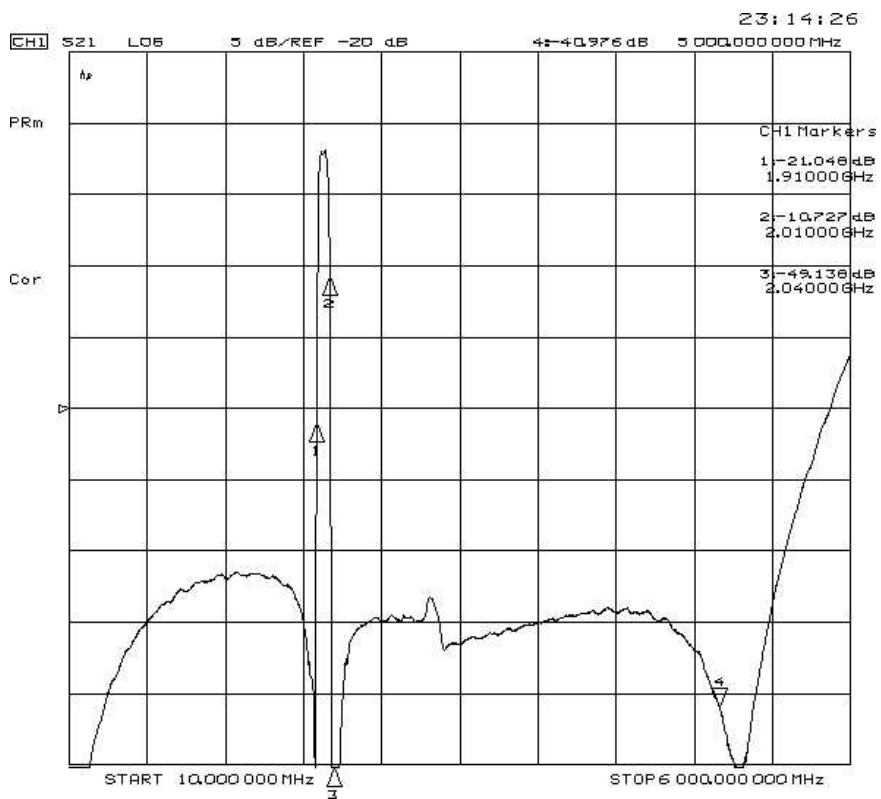
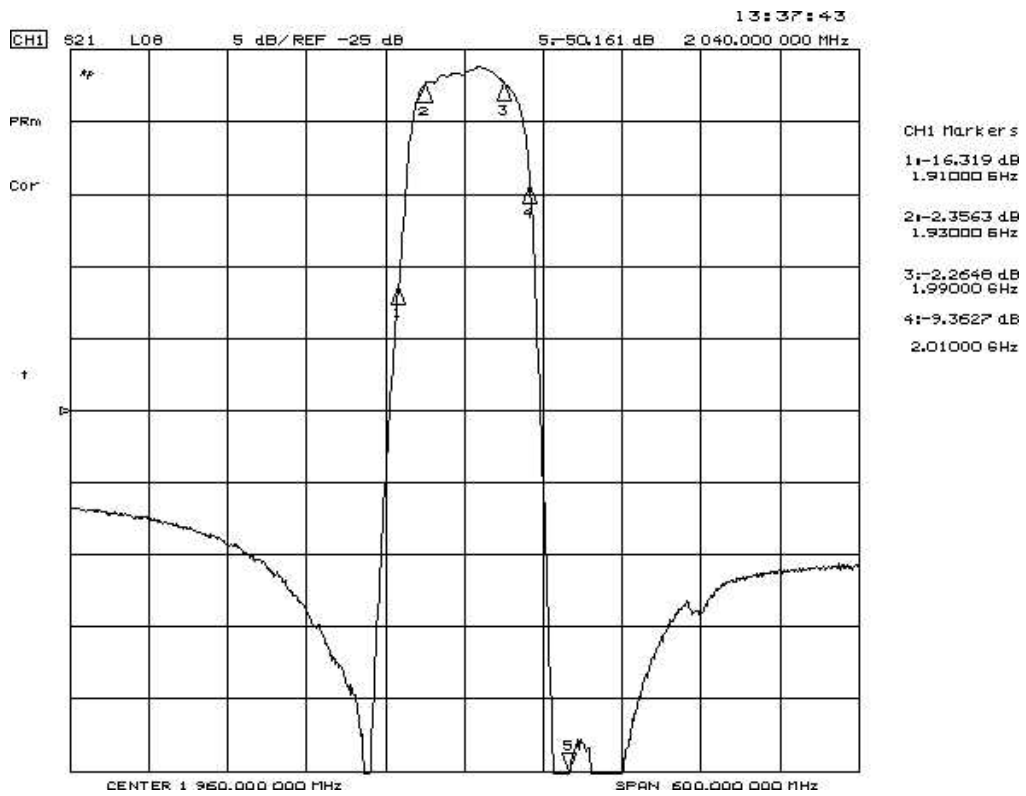
RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

| Item | | Min. | Typ. | Max. |
|--|---------------------------|------|------|------|
| Center frequency | F_c (dB) | - | 1960 | - |
| Insertion loss within 1930 ~1990 MHz | IL (dB) | - | 2.35 | 4 |
| Amplitude ripple (p-p) within 1930 ~ 1990 MHz | (dB) | - | 1.4 | 2.4 |
| Attenuation (Reference level from 0 dB) | | | | |
| D.C. ~ 1850 | MHz (dB) | 20.0 | 32.0 | - |
| 1850 ~ 1910 | MHz (dB) | 10.0 | 21.0 | - |
| 2010 ~ 2040 | MHz (dB) | 4.5 | 10.0 | - |
| 2040 ~ 2070 | MHz (dB) | 20.0 | 50.0 | - |
| 2070 ~ 5000 | MHz (dB) | 22.0 | 29.0 | - |
| VSWR within 1930 ~1990 MHz | | - | 1.7 | 2.4 |
| Source impedance | Z_S (Ω) | - | 50 | - |
| Load impedance | Z_L (Ω) | - | 50 | - |

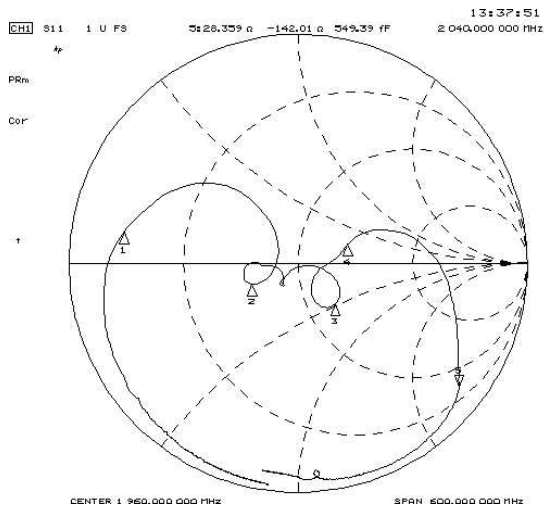
Note1. No matching network required for operation at 50 Ω

C. Frequency Characteristics : Transfer function



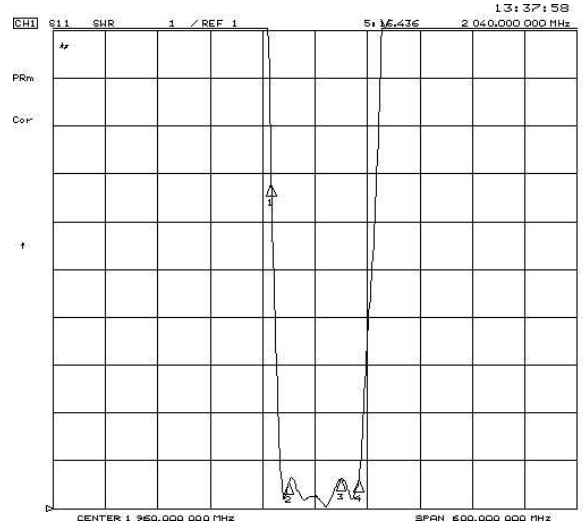
Reflections Functions :

S11 VSWR



CHI Markers

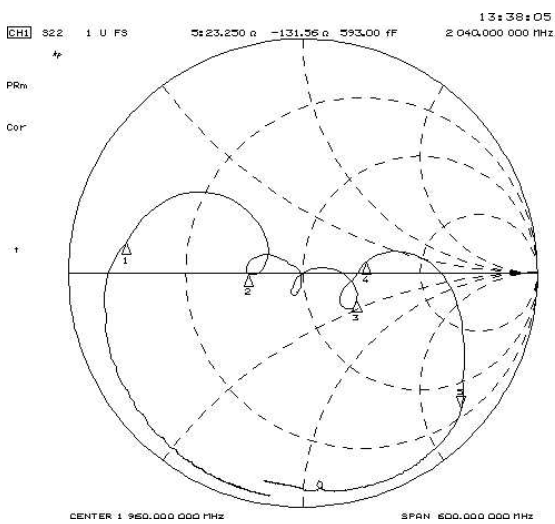
| |
|-------------|
| 1: 6.4773 n |
| 2: 32.911 n |
| 3: 64.304 n |
| 4: 76.259 n |
| 5: 16.436 n |



CHI Markers

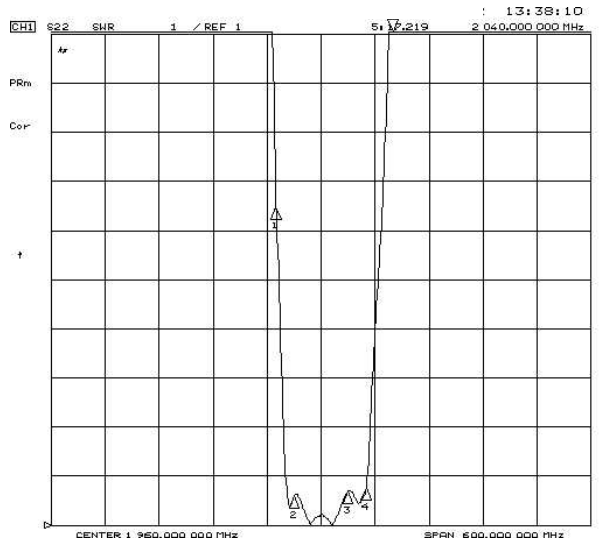
| |
|-------------|
| 1: 7.935 n |
| 2: 1.5651 n |
| 3: 1.6212 n |
| 4: 1.6068 n |

S22 VSWR



CHI Markers

| |
|-------------|
| 1: 6.7395 n |
| 2: 31.166 n |
| 3: 77.234 n |
| 4: 87.004 n |
| 5: 17.219 n |

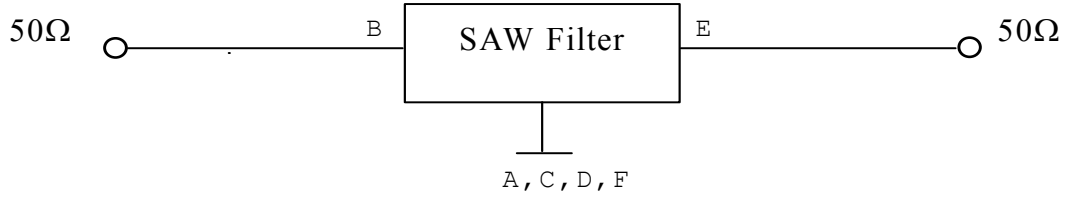


CHI Markers

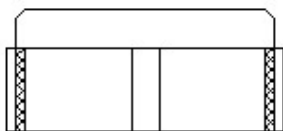
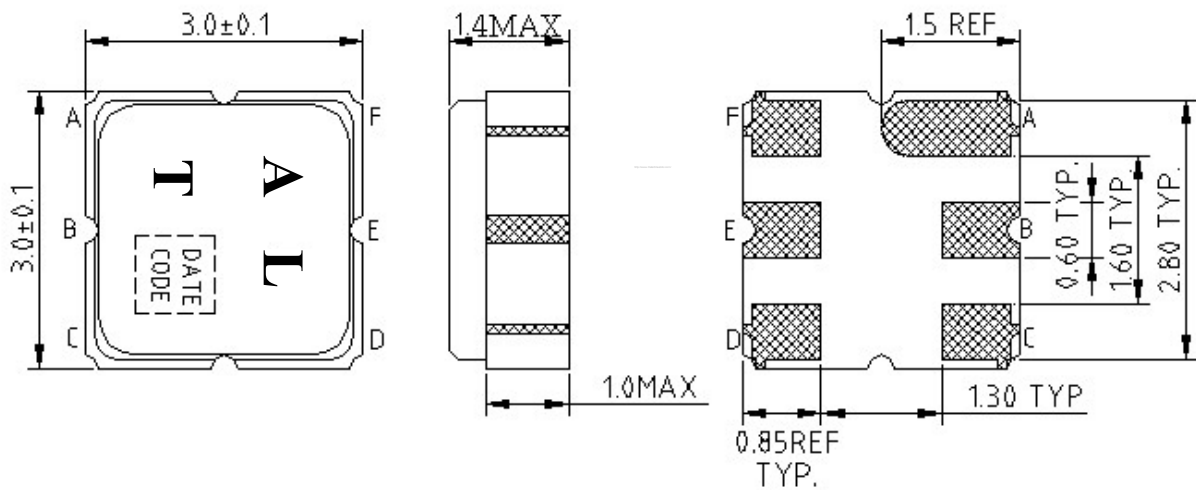
| |
|-------------|
| 1: 7.4889 n |
| 2: 1.6057 n |
| 3: 1.6960 n |
| 4: 1.7704 n |

D. MEASUREMENT CIRCUIT:

HP Network analyzer



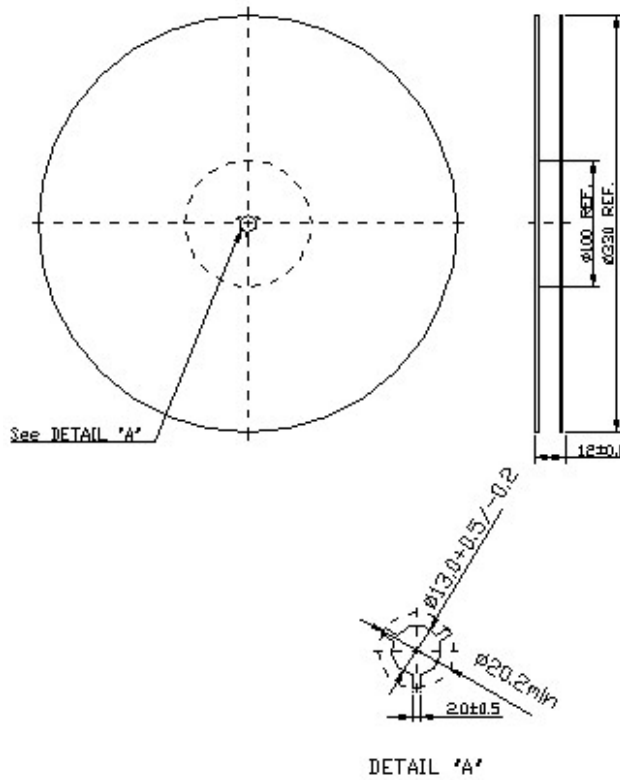
E. OUTLINE DRAWING:



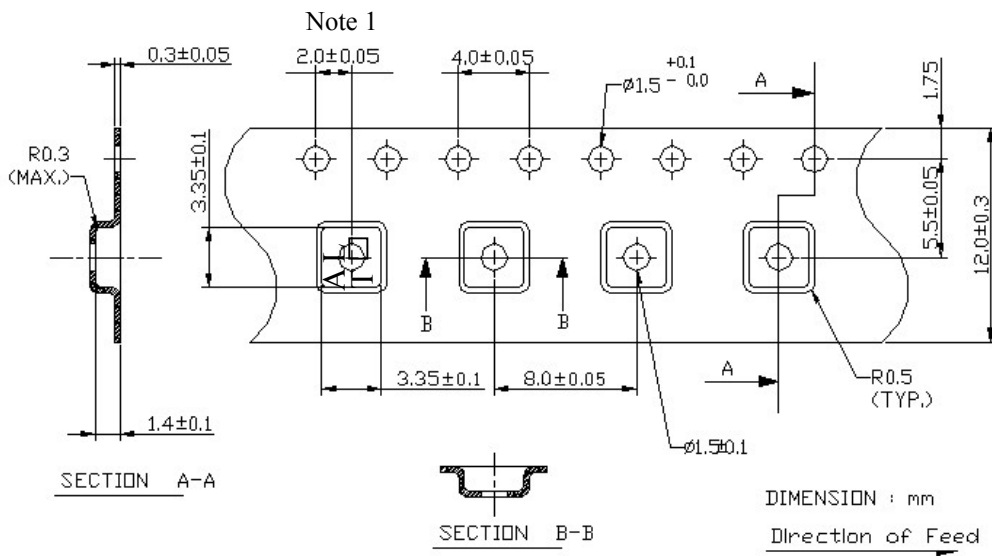
B INPUT
 E OUTPUT
 A,C,D,F GROUND
 DIMENSION : mm

F. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



Note :

1. Pocket position relative to sprocket hole measured as true position of pocket, not pocket hole.