



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.

TEL: 886-3-4690038 FAX: 886-3-4697532

E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Approval Sheet For Product Specification

Issued Date: August, 31, 2005

Product Name: SAW Filter 2140 MHz SMD 3X3 mm

TST Parts No.:TA0174G

Customer Parts No.: _____

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

Checked by: _____ Bob Chau

Approval by: _____ Francis Chen

Date: _____ 8, 31, 2005



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SAW Filter 2140 MHz for Mobile Communication

MODEL NO.: TA0174G

REV. NO.:2

A1. MAXIMUM RATING:

1. Input Power Level: 13 dB_m
2. DC voltage: 3 V
3. Operating Temperature: 25°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

B1. ELECTRICAL CHARACTERISTICS:

| Item | | Min. | Typ. | Max. |
|--|----------------------------|------|------|------|
| Center frequency | F_c (MHz) | - | 2140 | - |
| Insertion loss (2110~2170 MHz) | IL (dB) | - | 2.1 | 3.5 |
| Amplitude ripple (2110~2170 MHz) | (dB) | - | 0.6 | 2.0 |
| Attenuation (Reference level from 0 dB) | | | | |
| D.C. ~ 500 | MHz (dB) | 21 | 33 | - |
| 500 ~ 1900 | MHz (dB) | 20 | 28 | - |
| 1900 ~ 2050 | MHz (dB) | 25 | 30 | - |
| 2215 ~ 2300 | MHz (dB) | 20 | 32 | - |
| 2300 ~ 4500 | MHz (dB) | 25 | 32 | - |
| Input/Output VSWR (2110~2170 MHz) | | - | 1.7 | 1.95 |
| Source impedance | Z _s (Ω) | - | 50 | - |
| Load impedance | Z _L (Ω) | - | 50 | - |

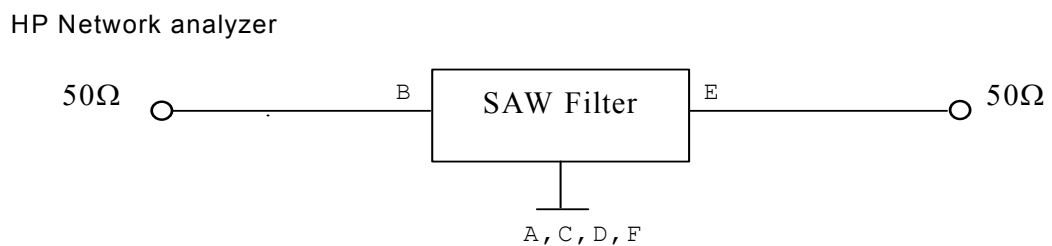
A2. MAXIMUM RATING:

1. Input Power Level: 13 dB_m
2. DC voltage: 3 V
3. Operating Temperature: -25°C to +85°C
4. Storage Temperature: -40°C to +85°C

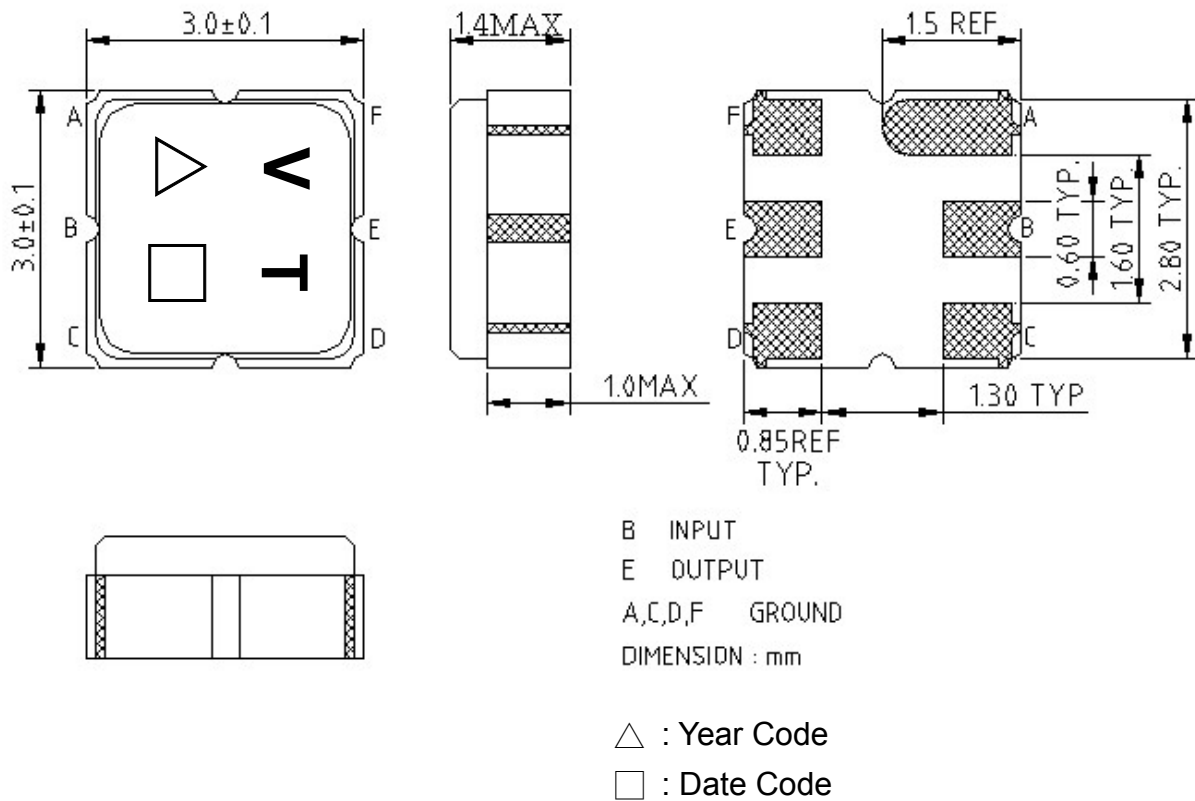
B2. ELECTRICAL CHARACTERISTICS:

| Item | | Min. | Typ. | Max. |
|--|----------------------------|------|------|------|
| Center frequency | F_c (MHz) | - | 2140 | - |
| Insertion loss (2110~2170 MHz) | IL (dB) | - | 2.1 | 3.5 |
| Amplitude ripple (2110~2170 MHz) | (dB) | - | 0.6 | 2.0 |
| Attenuation (Reference level from 0 dB) | | | | |
| D.C. ~ 500 | MHz (dB) | 21 | 33 | - |
| 500 ~ 1900 | MHz (dB) | 20 | 28 | - |
| 1900 ~ 2050 | MHz (dB) | 25 | 30 | - |
| 2215 ~ 2300 | MHz (dB) | 20 | 32 | - |
| 2300 ~ 4500 | MHz (dB) | 25 | 32 | - |
| Input/Output VSWR (2110~2170 MHz) | | - | 1.9 | 2.15 |
| Source impedance | Z_s (Ω) | - | 50 | - |
| Load impedance | Z_L (Ω) | - | 50 | - |

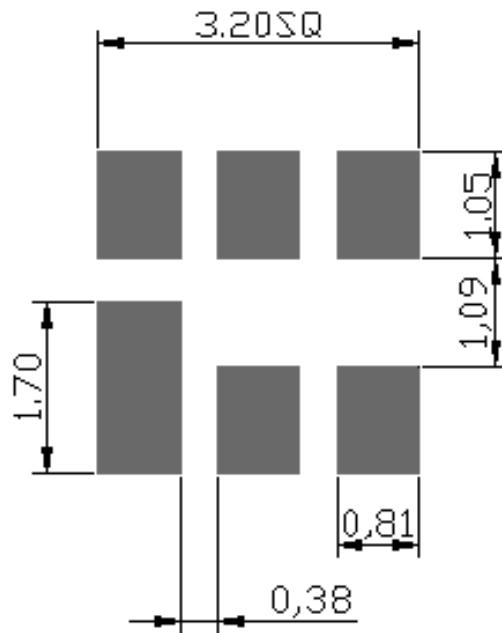
C. MEASUREMENT CIRCUIT:



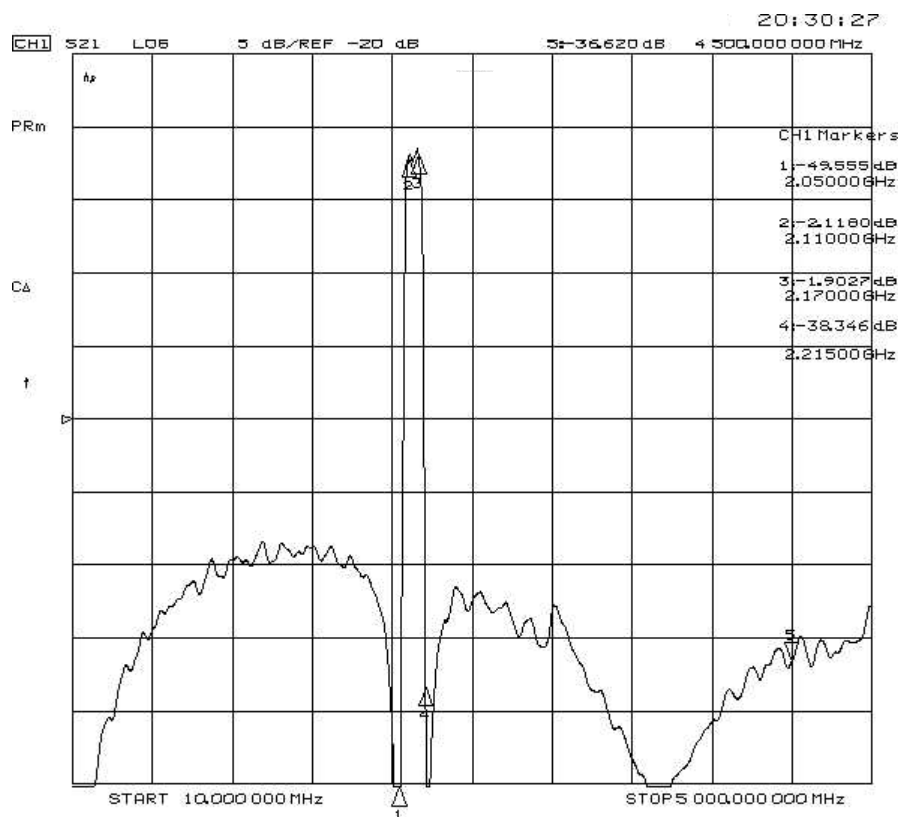
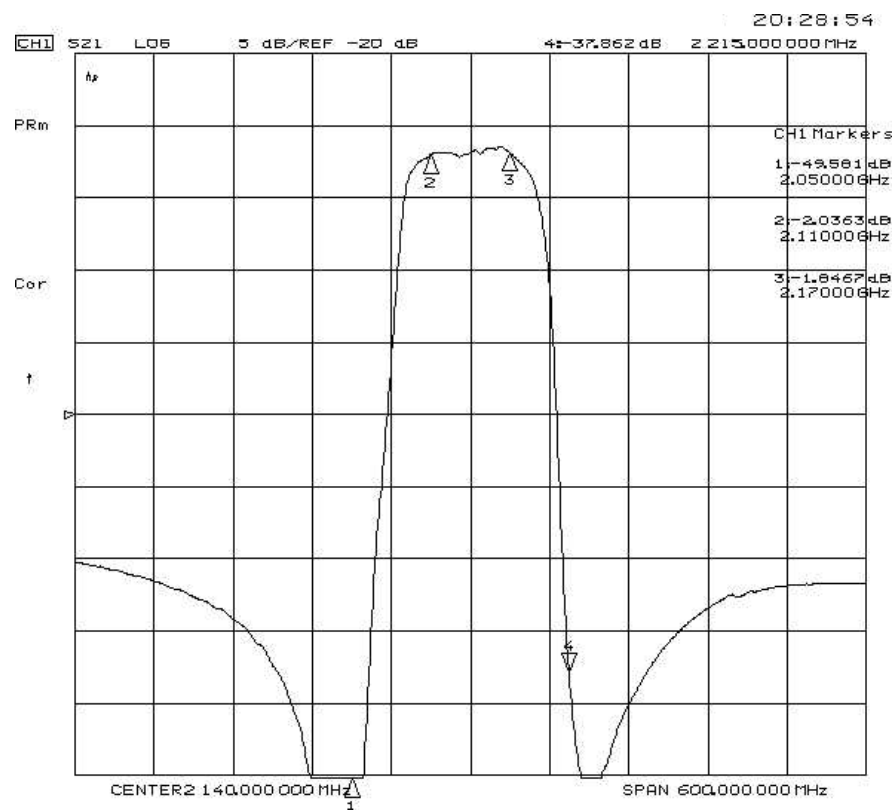
D. OUTLINE DRAWING:



E. PCB Footprint:

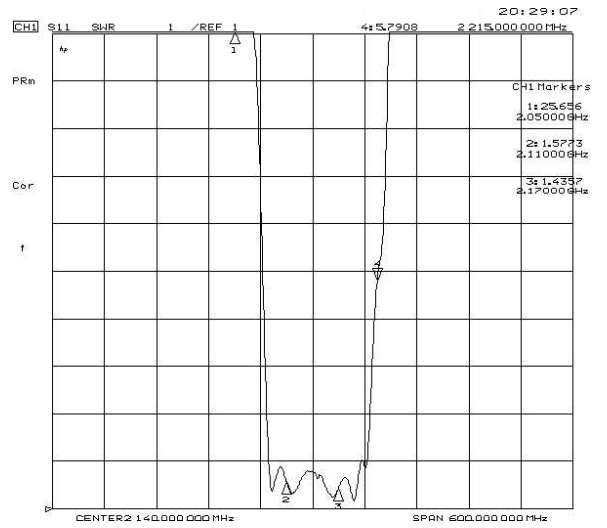
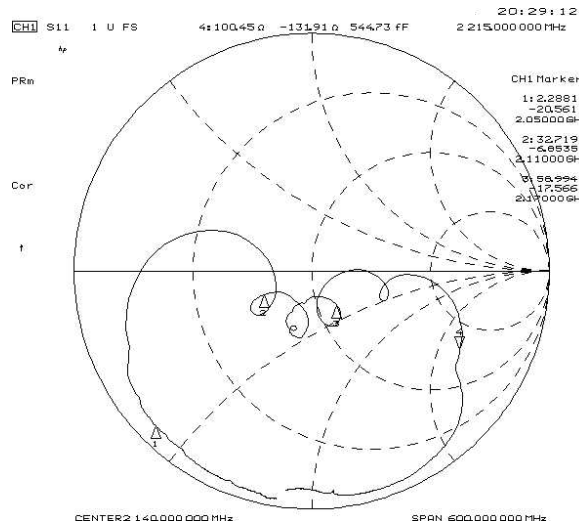


F. Frequency Characteristics : Transfer function

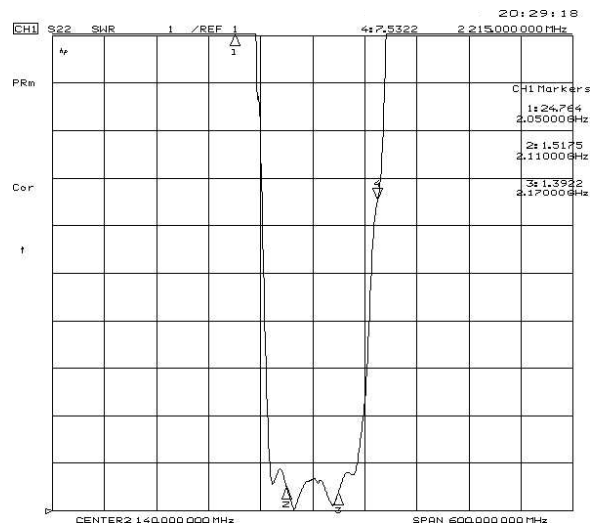
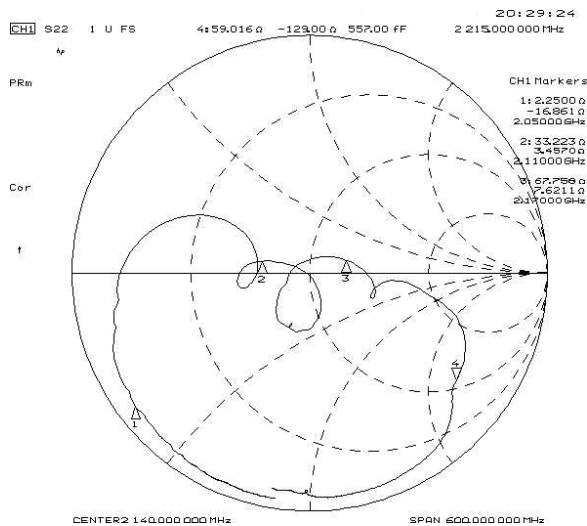


Reflections Functions :

S11

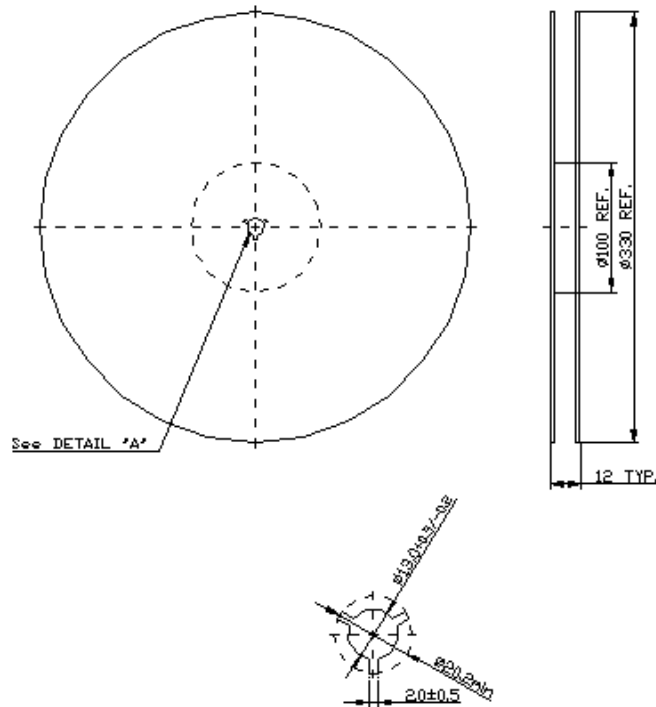


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G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

