

SAW Filter 1227.0MHz

Model: TA1227BB

Part No: MP01601

Rev. No: 3

A. MAXIMUM RATING:

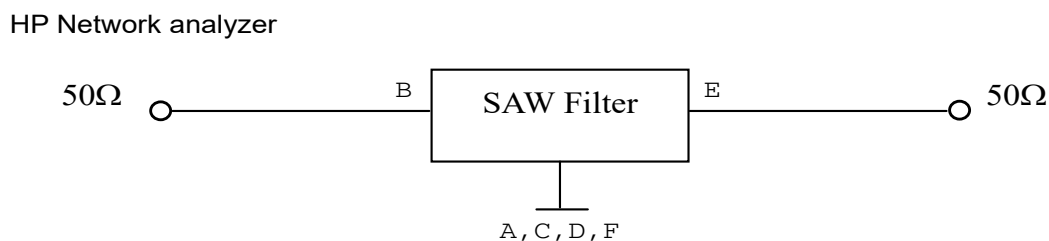
Electrostatic Sensitive Device (ESD)

1. Input Power Level: 20dBm
2. DC Voltage: 3V
3. Operating Temperature: -20°C to +70°C
4. Storage Temperature: -30°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

| Item | Unit | Min. | Typ. | Max. | Note |
|--|------|------|------|------|------|
| Center Frequency Fc | MHz | - | 1227 | - | - |
| Insertion Loss (1217 ~ 1237MHz) IL | dB | - | 1.3 | 2.2 | - |
| Amplitude Ripple (1217 ~ 1237MHz) | dB | - | 0.4 | 2 | - |
| VSWR (1217 ~ 1237MHz) | | - | 1.3 | 2 | - |
| Relative Attenuation (relative to 0dB) | | | | | |
| D.C. ~ 450MHz | dB | 28 | 32 | - | - |
| 450 ~ 1150MHz | dB | 24 | 27 | - | - |
| 1150 ~ 1177MHz | dB | 20 | 37 | - | - |
| 1277 ~ 1300MHz | dB | 20 | 35 | - | - |
| 1300 ~ 2000MHz | dB | 27 | 31 | - | - |

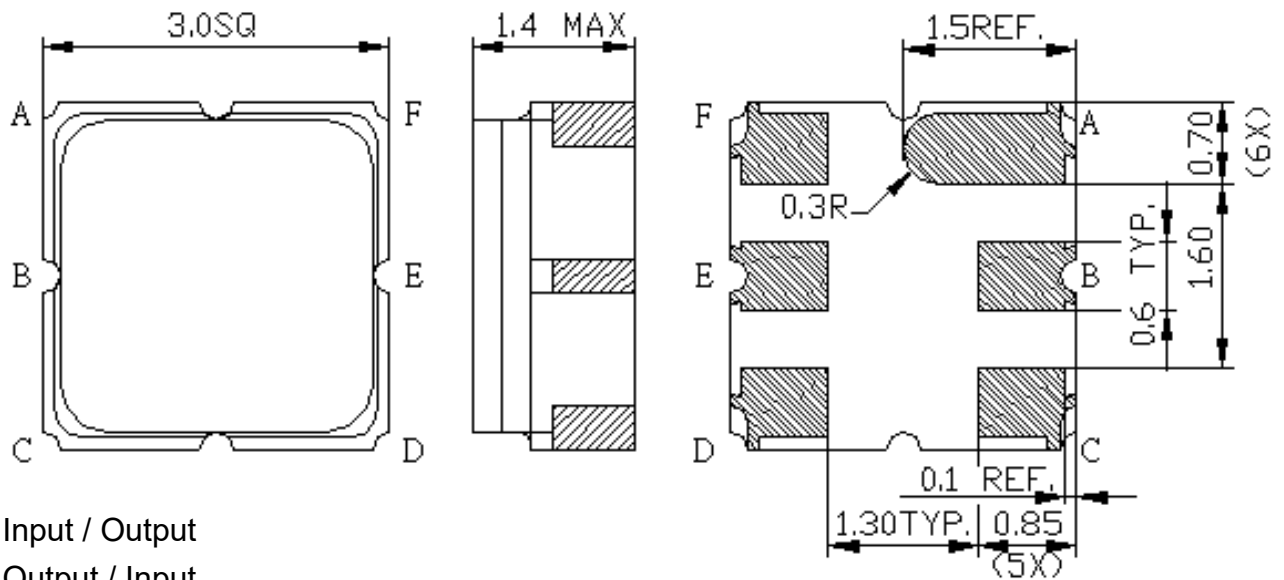
C. MEASUREMENT CIRCUIT:



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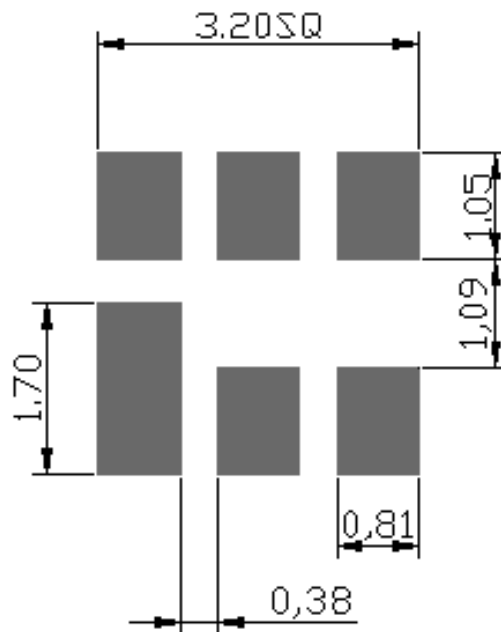
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D. OUTLINE DRAWING:



B: Input / Output
 E: Output / Input
 A, C, D, F: Ground
 Unit: mm

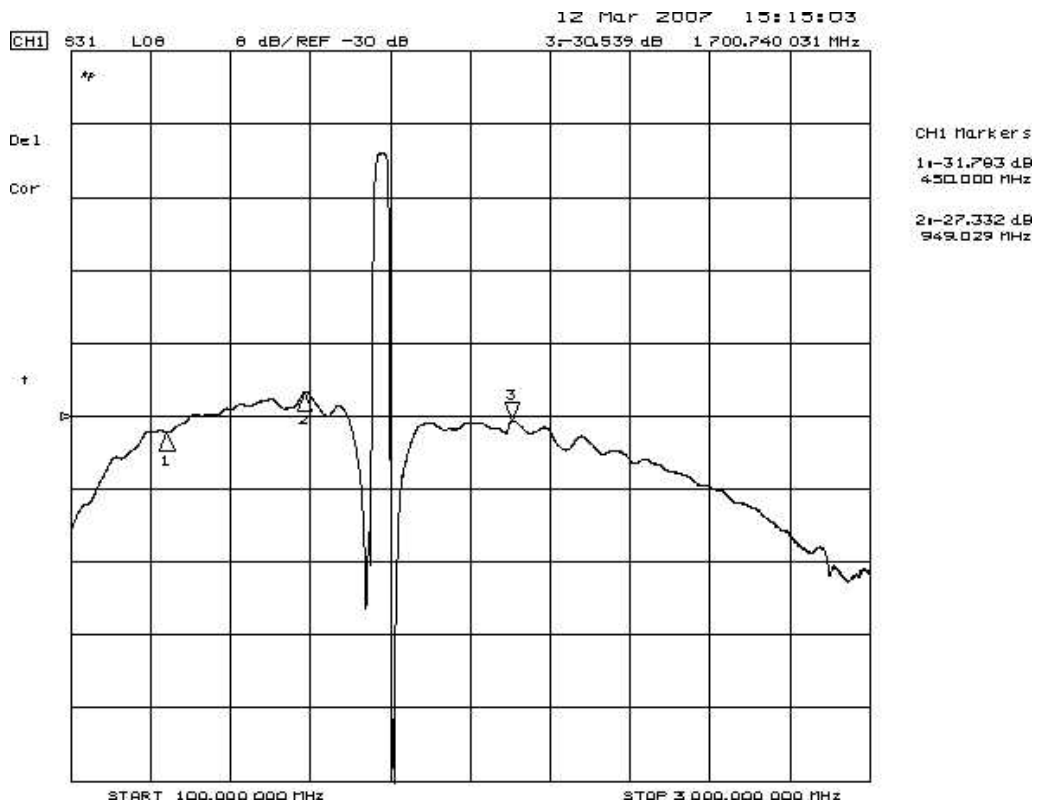
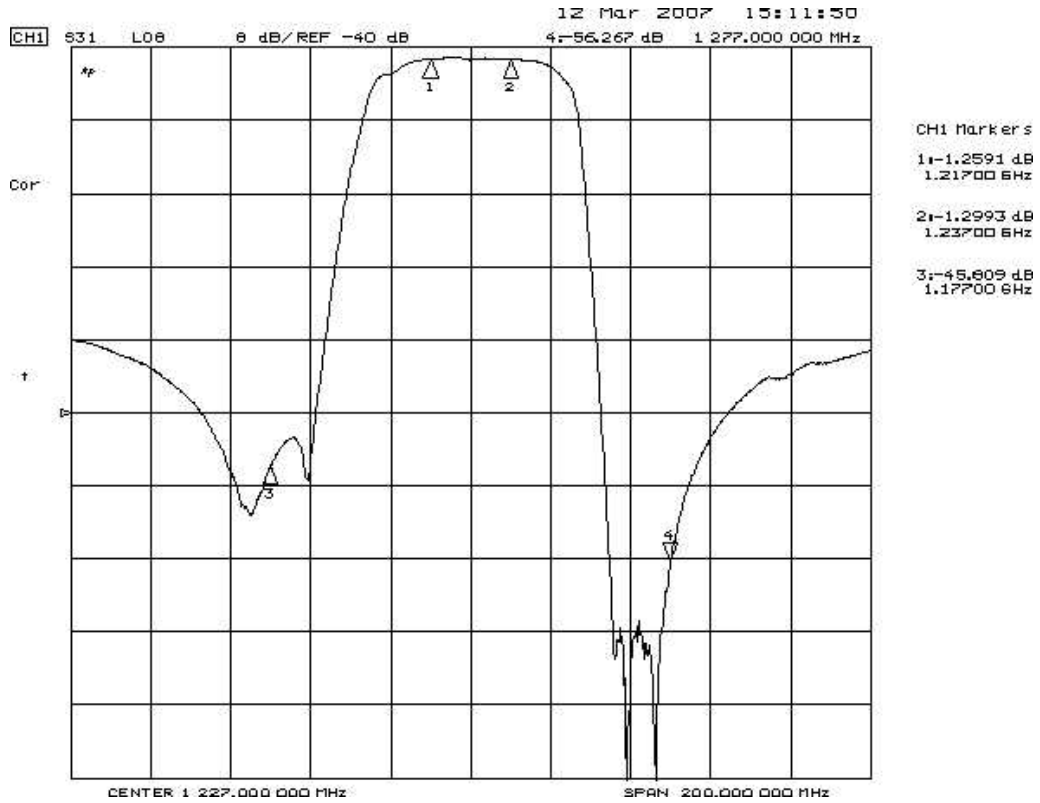
E. PCB FOOTPRINT:



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F. FREQUENCY CHARACTERISTICS:

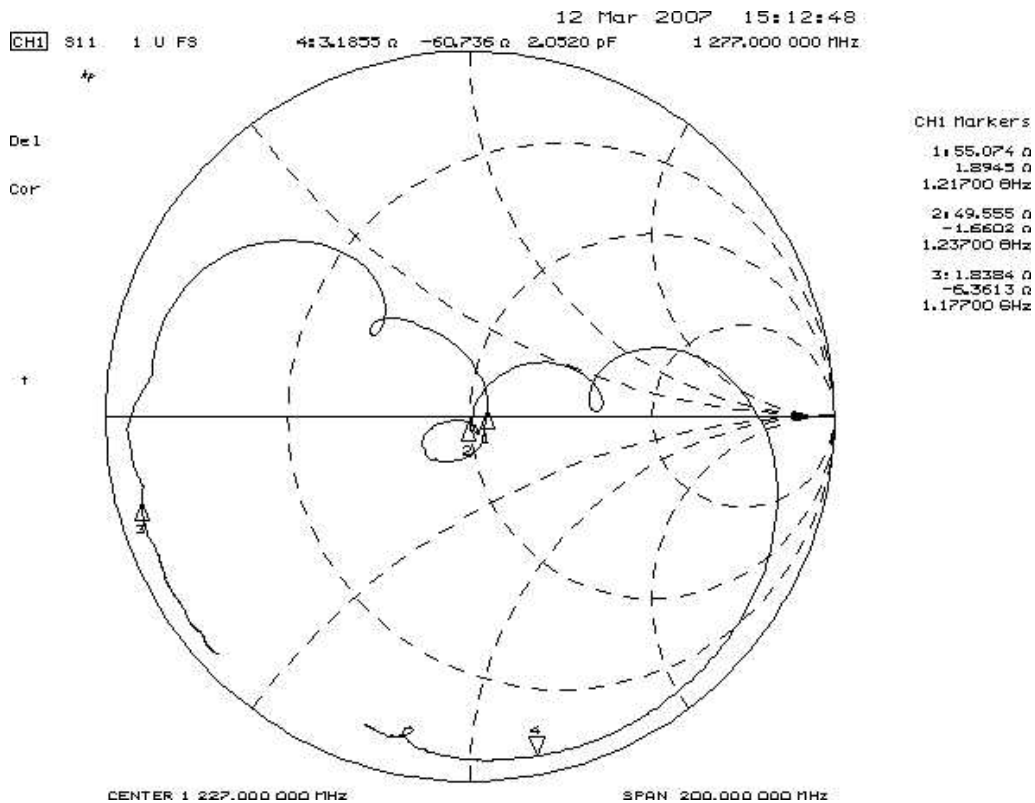
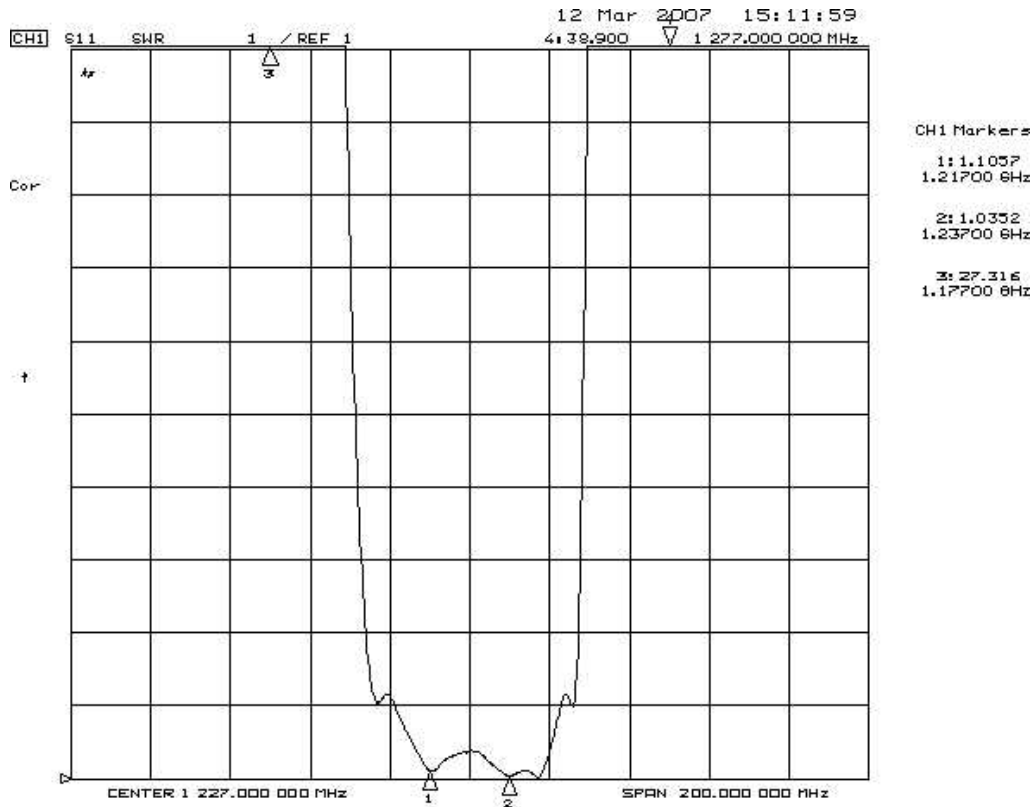


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Reflections Functions

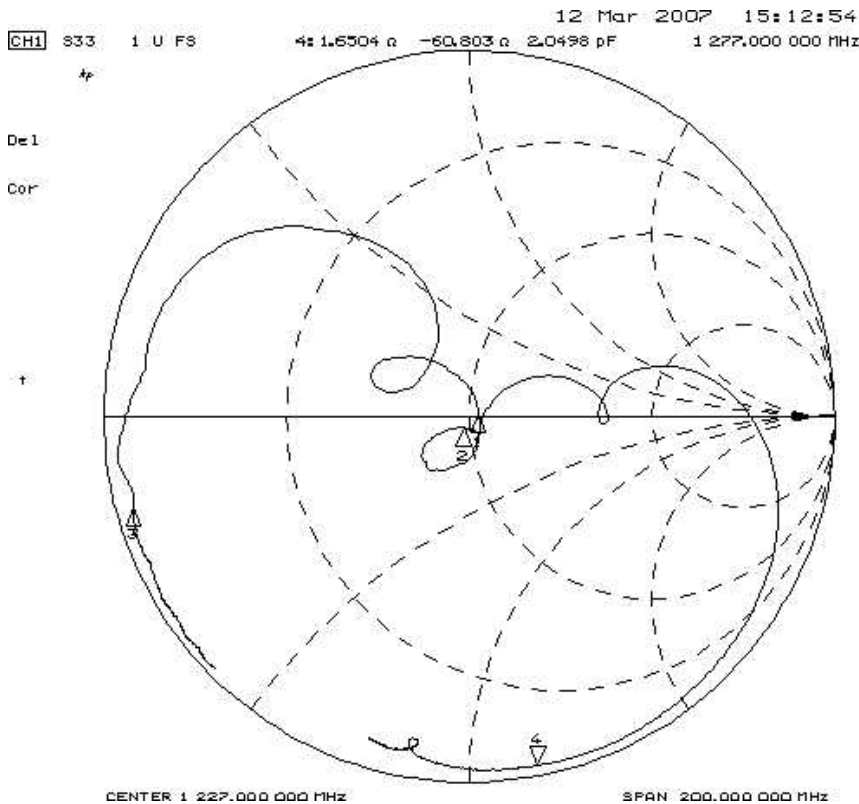
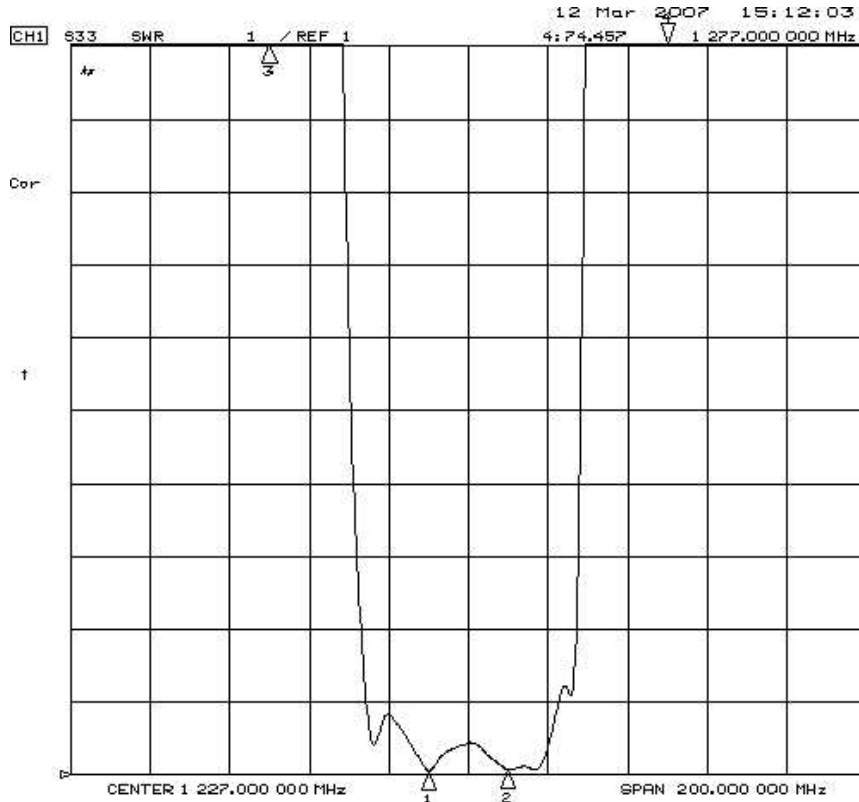
S11 VSWR



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S22 VSWR



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H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50~80 seconds and at 245~260°C peak (min. 10 sec).
4. Time: 2 times.

