

435.0MHz SAW Filter

Model: TA2325A

Part No: MP11205

Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

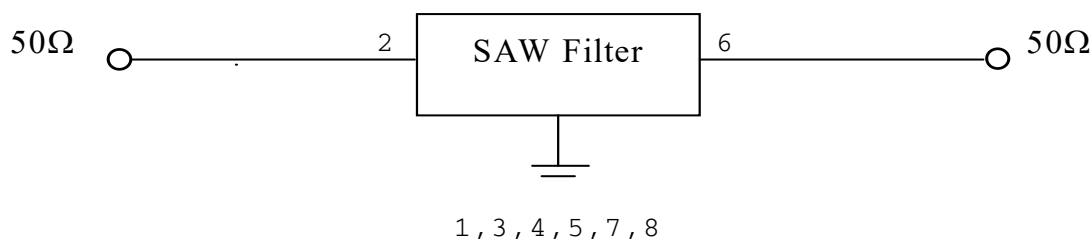
1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 1 (MSL1)

B. ELECTRICAL CHARACTERISTICS:

| Item | Unit | Min. | Typ. | Max. |
|--|-------|------|------|------|
| Center frequency Fc | MHz | - | 435 | - |
| Insertion Loss (432~438MHz) IL | dB | - | 1.9 | 3.8 |
| Amplitude Variation (432~438MHz) | dB | - | 0.4 | 2.5 |
| Bandwidth BW -3dB | MHz | 9.5 | 10 | 12.5 |
| Group delay variation (432~438MHz) | ns | - | 65 | 150 |
| Return Loss (432~438MHz) | dB | 6.5 | 8.5 | - |
| Attenuation (Reference level from 0dB) | | | | |
| 10 ~ 400MHz | dB | 45 | 68 | - |
| 400 ~ 420MHz | dB | 10 | 33 | - |
| 445 ~ 480MHz | dB | 10 | 26 | - |
| 480 ~ 680MHz | dB | 45 | 58 | - |
| 680 ~ 1000MHz | dB | 35 | 61 | - |
| Temperature coefficient of frequency | ppm/k | - | -36 | - |

C. MEASUREMENT CIRCUIT:

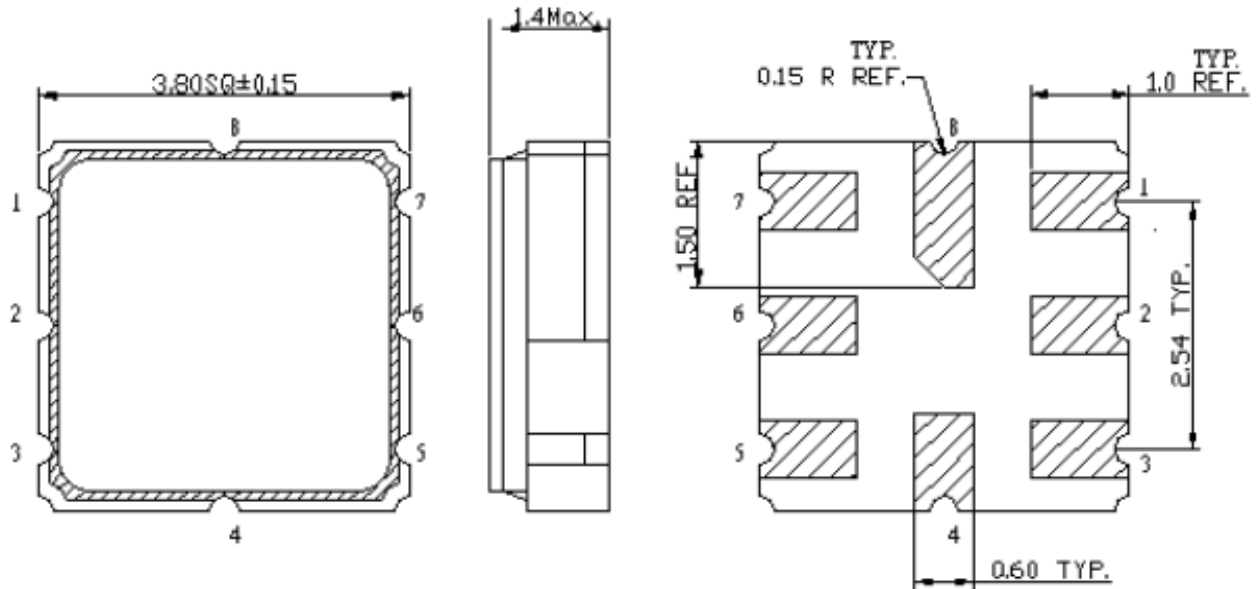
HP Network analyzer



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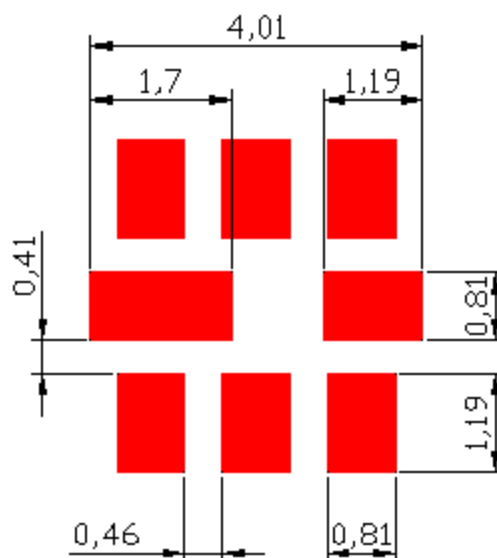
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D. OUTLINE DRAWING:



- 1: Input
- 5: Output
- 2, 3, 4, 6, 7, 8: Ground
- Unit: mm

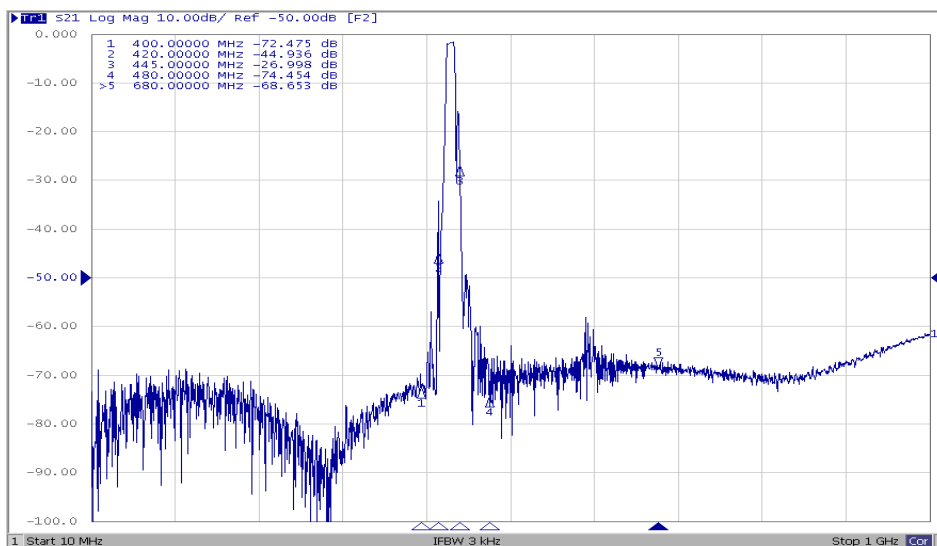
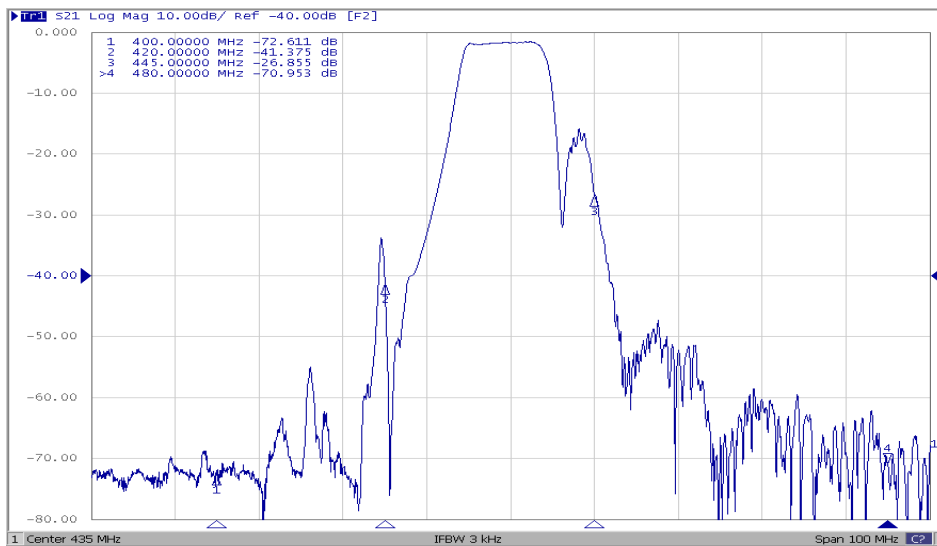
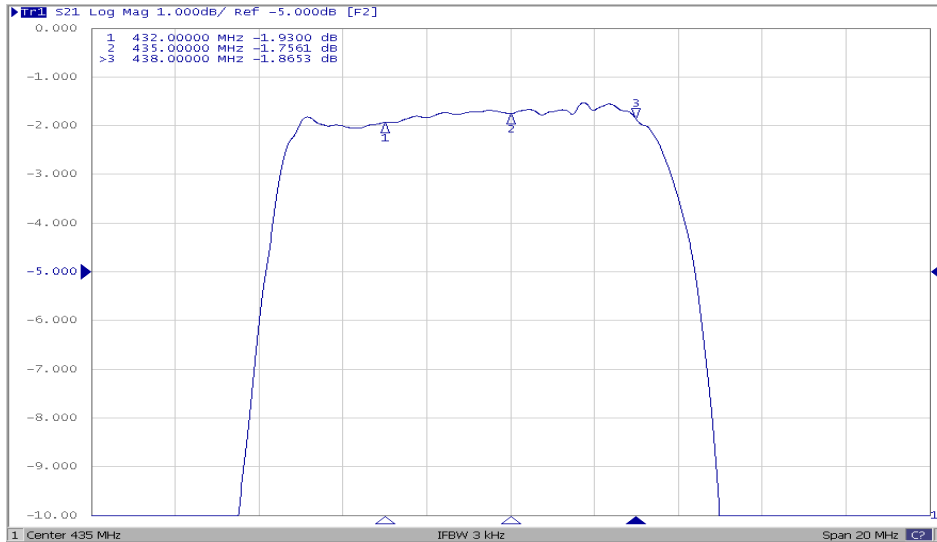
E. PCB FOOTPRINT:



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F. FREQUENCY CHARACTERISTICS:

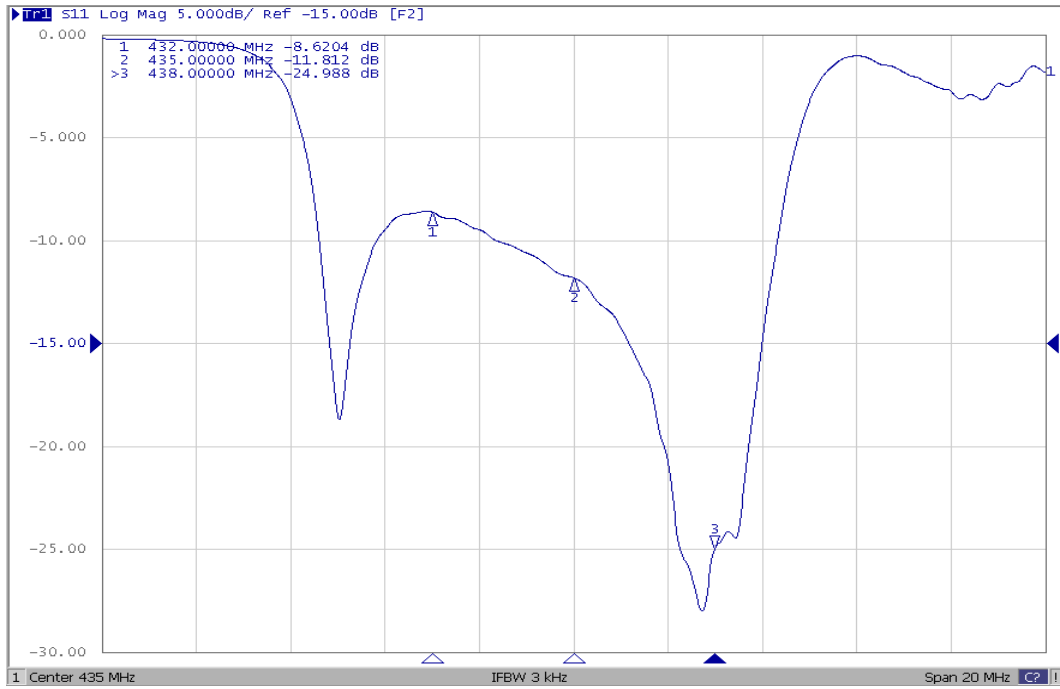


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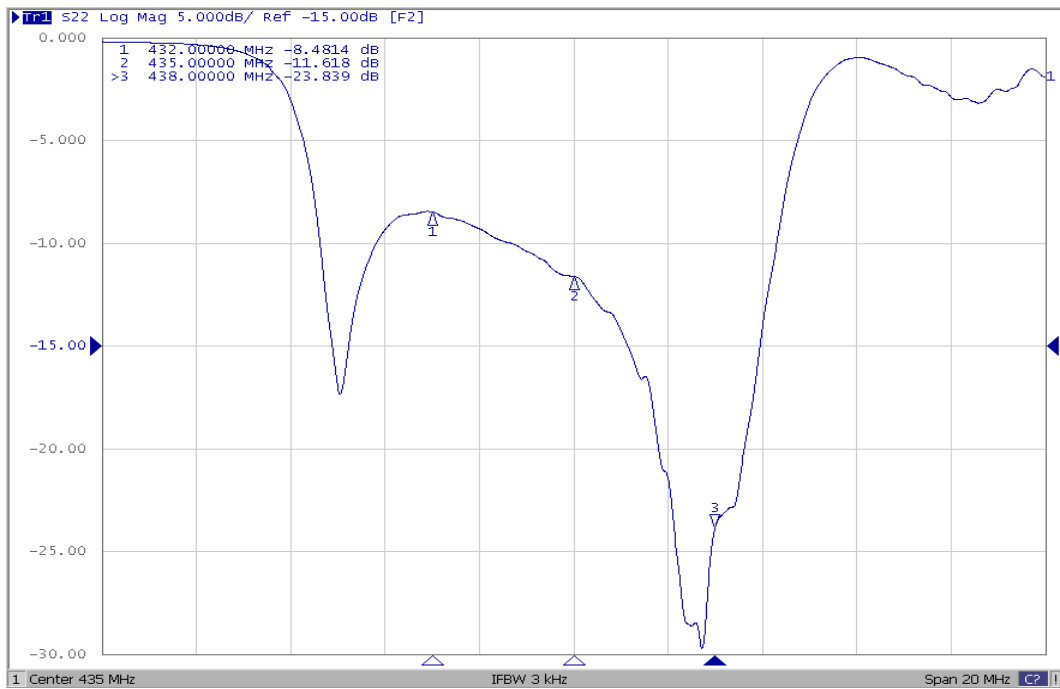
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Reflection Functions:

S11



S22



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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 260°C +0/-5°C peak (20~40 sec).
4. Time: 2 times.

