

SAW Filter 868.0MHz

Model: TA1972A

Part No: MP08636

Rev No: 2

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

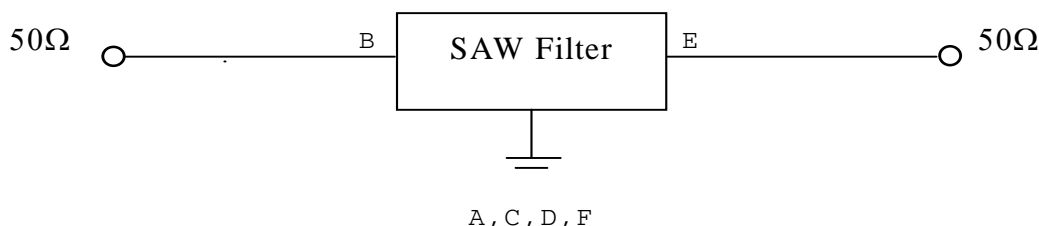
1. Input Power Level: +27dBm
2. DC Voltage: 5V
3. Operating Temperature: -40°C to +95°C
4. Storage Temperature: -40°C to +105°C
5. Moisture Sensitivity Level: Level 1 (MSL1)

B. ELECTRICAL CHARACTERISTICS:

| Item | Unit | Min. | Typ. | Max. |
|--|--------|------|------|------|
| Center frequency Fc | MHz | - | 868 | - |
| Insertion loss (867 ~ 869MHz) IL | dB | - | 3.0 | 4.2 |
| Amplitude Ripple (867 ~ 869MHz) | dB | - | 0.1 | 1.5 |
| Group Delay Ripple (867 ~ 869MHz) | ns | - | 4 | 35 |
| Attenuation (Reference level from 0dB) | | | | |
| DC ~ 800MHz | dB | 37 | 43 | - |
| 800 ~ 838MHz | dB | 35 | 42 | - |
| 880 ~ 905MHz | dB | 10 | 31 | - |
| 905 ~ 915MHz | dB | 35 | 57 | - |
| 915 ~ 970MHz | dB | 38 | 54 | - |
| Temperature Coefficient of Frequency | ppm/°C | - | -36 | - |

C. MEASUREMENT CIRCUIT:

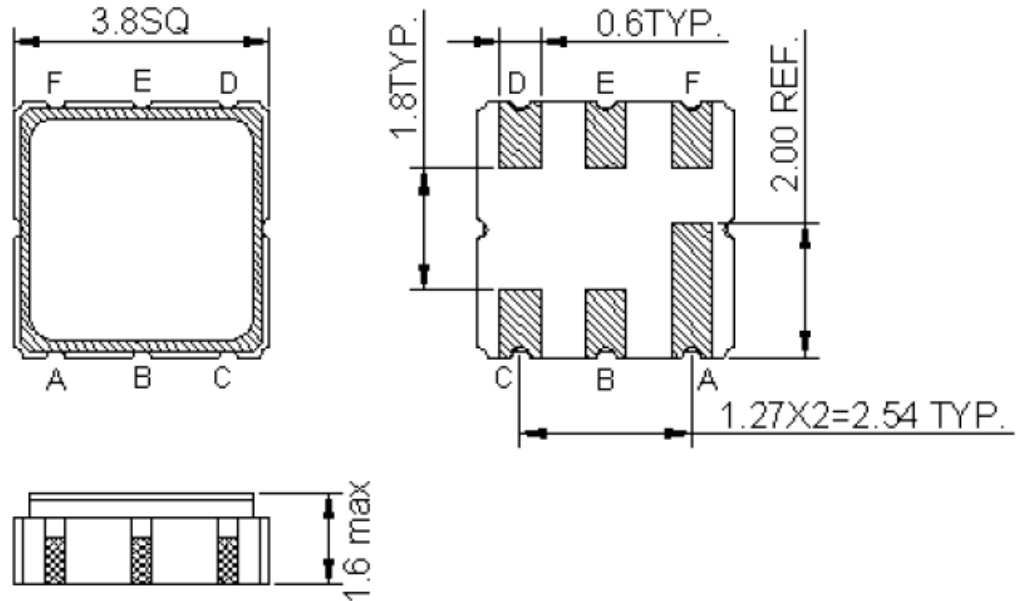
HP Network analyzer



SAW Filter 868.0MHz
Part No: MP08636

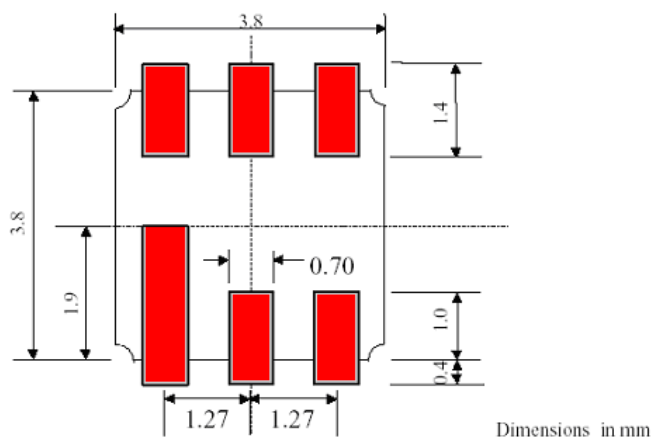
Model: TA1972A
Rev No: 2

D. OUTLINE DRAWING:



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

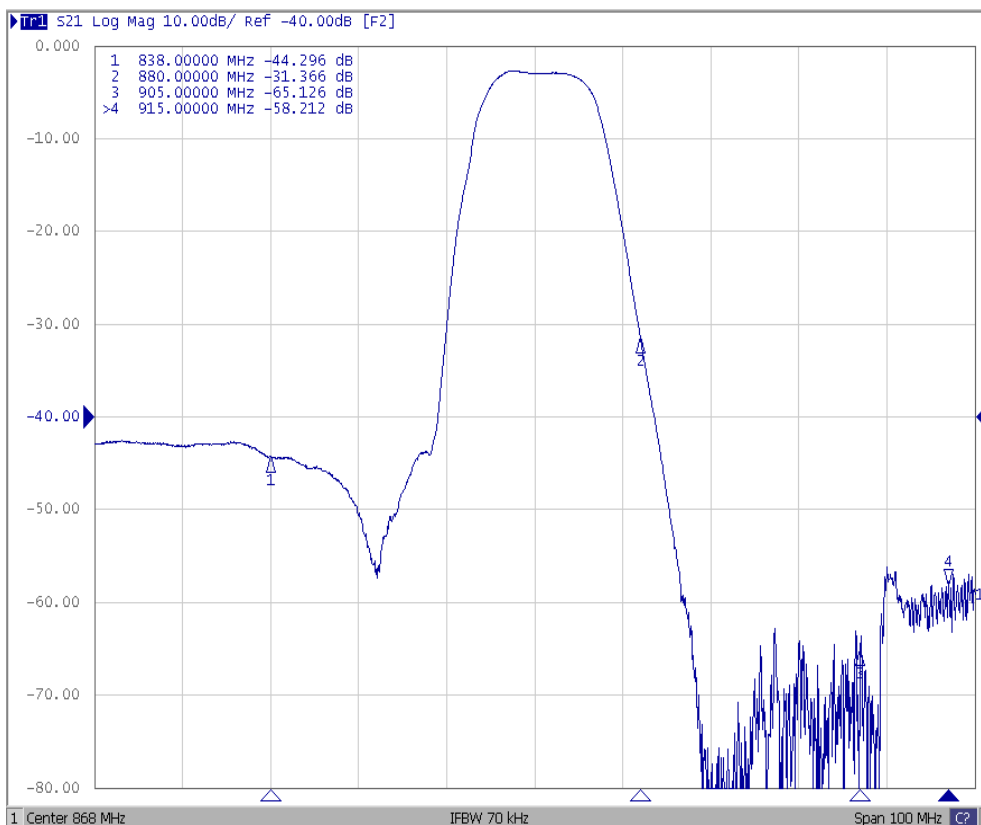
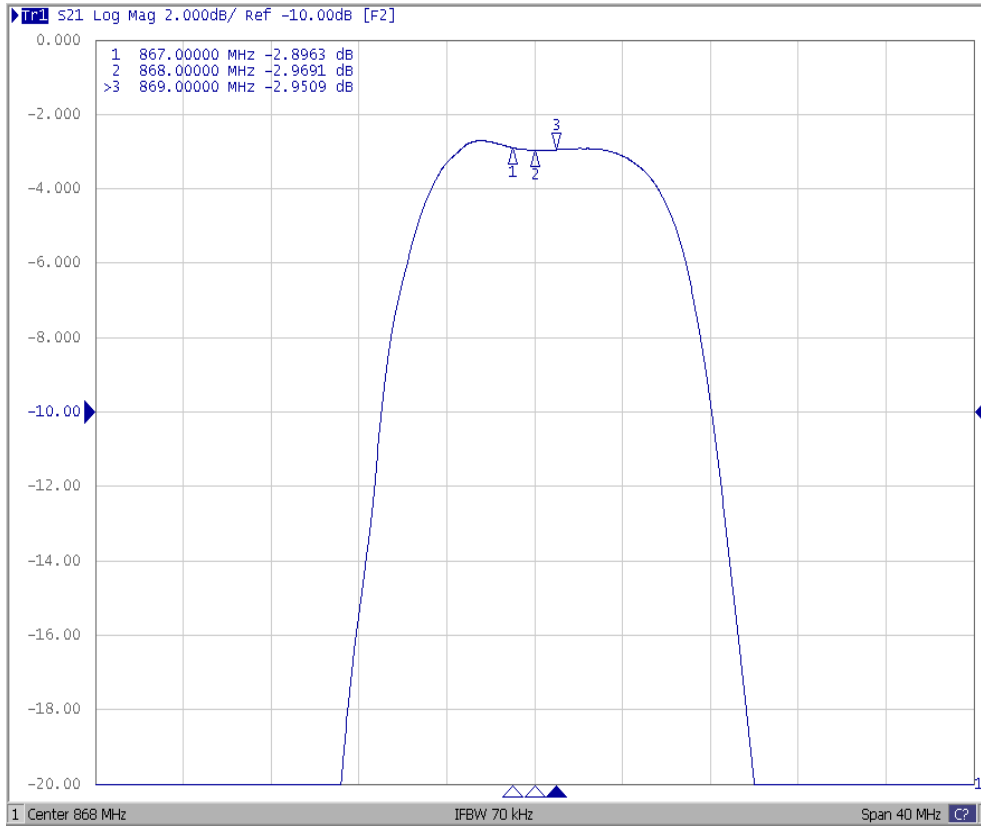
E. PCB FOOTPRINT:



SAW Filter 868.0MHz
Part No: MP08636

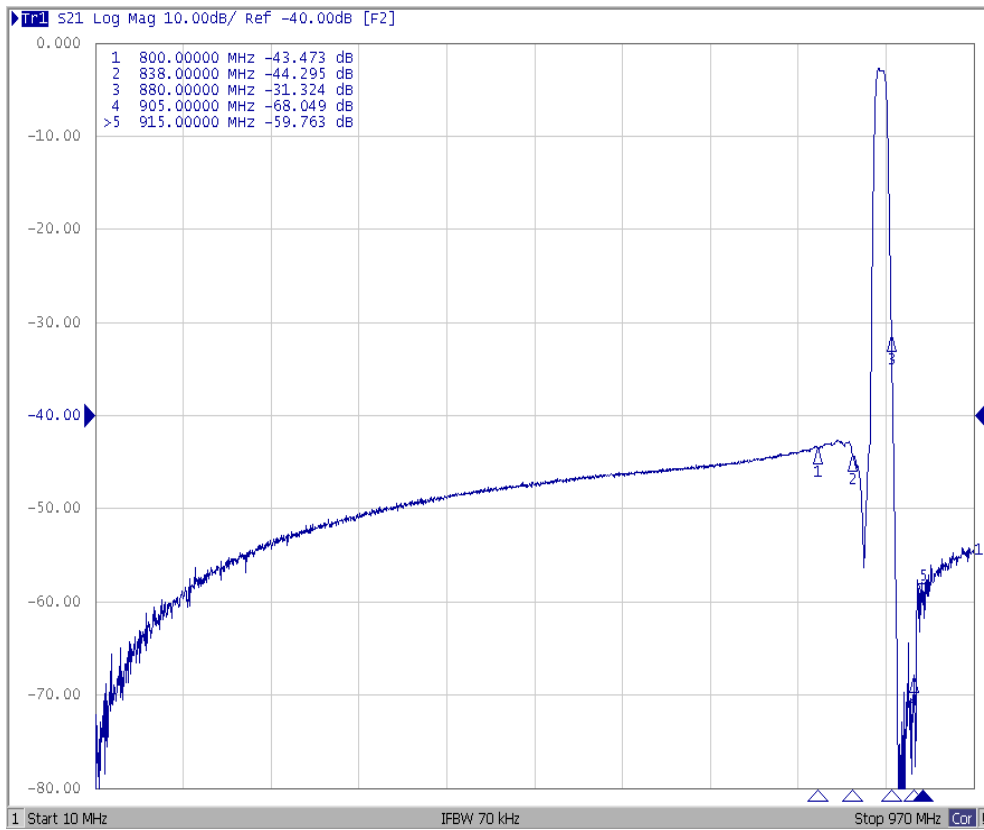
Model: TA1972A
Rev No: 2

F. FREQUENCY CHARACTERISTICS:

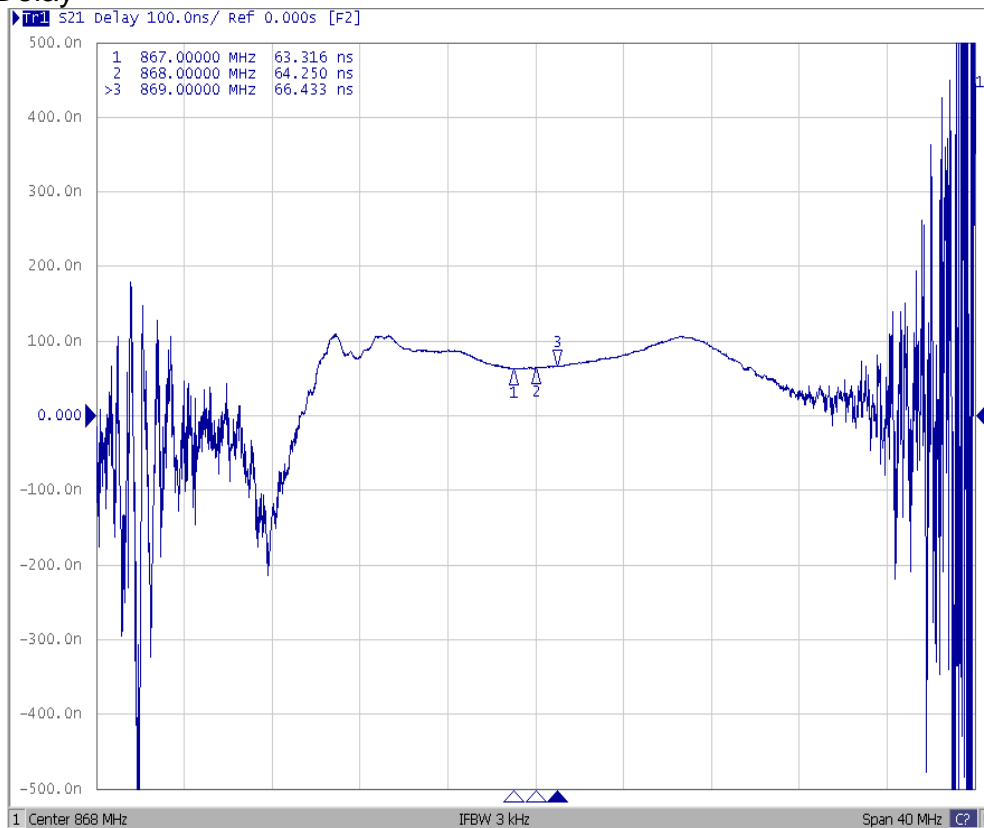


SAW Filter 868.0MHz
Part No: MP08636

Model: TA1972A
Rev No: 2



Group Delay

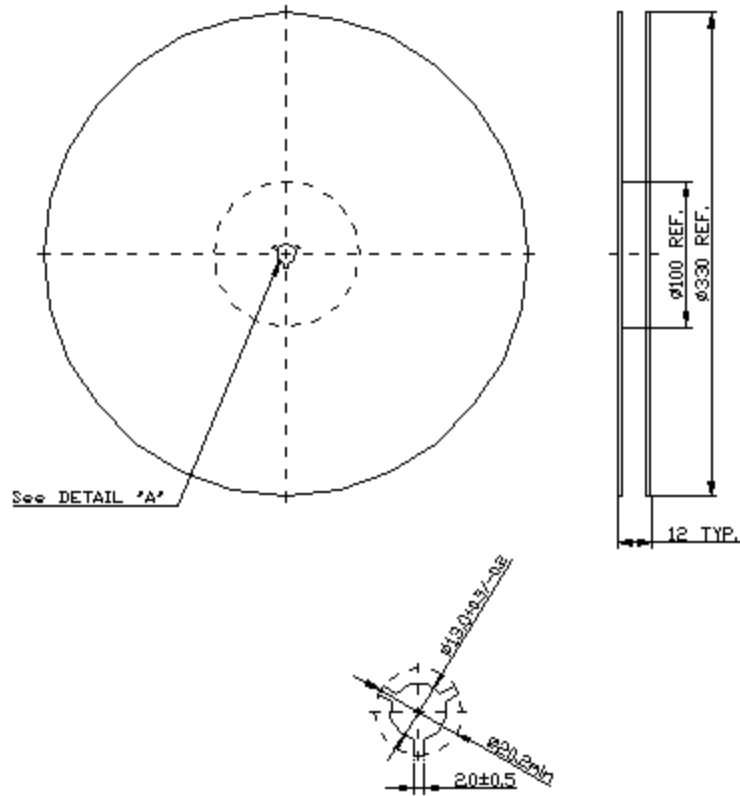


SAW Filter 868.0MHz
Part No: MP08636

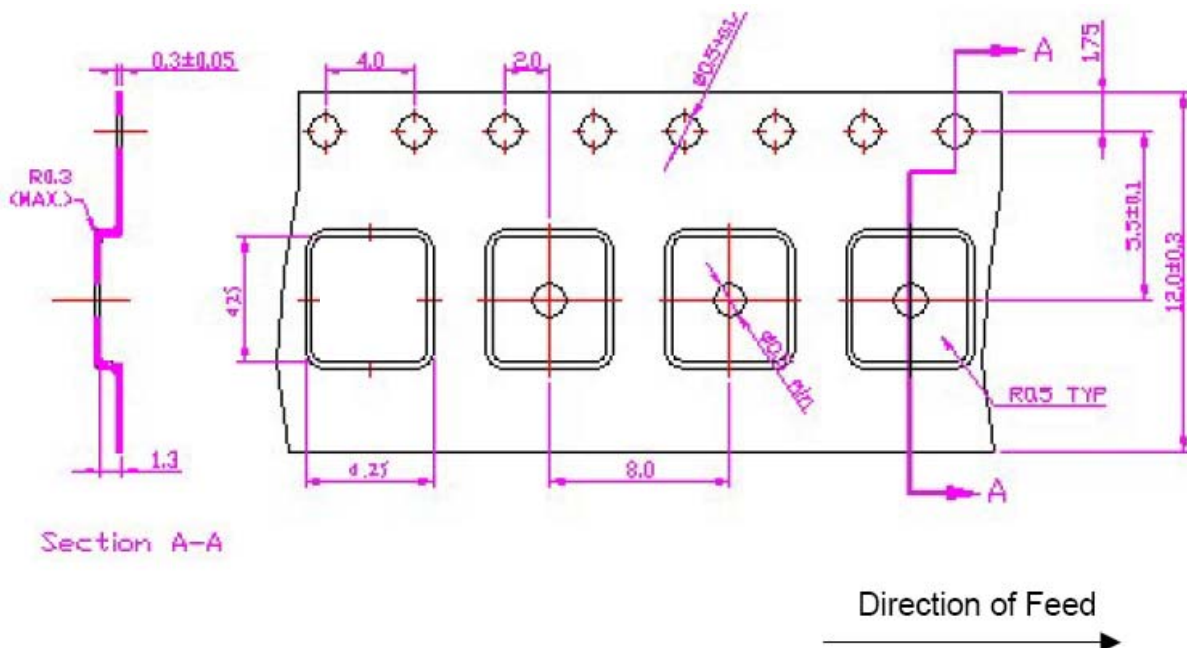
Model: TA1972A
Rev No: 2

G. PACKING:

1. Reel Dimension



2. Tape Dimension



SAW Filter 868.0MHz
Part No: MP08636

Model: TA1972A
Rev No: 2

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.

