

**SAW Filter 1090.0MHz**  
**Part No: MP09321**

**Model: TA2003A**  
**Rev No: 1**

**A. MAXIMUM RATING:**

**Electrostatic Sensitive Device (ESD)**

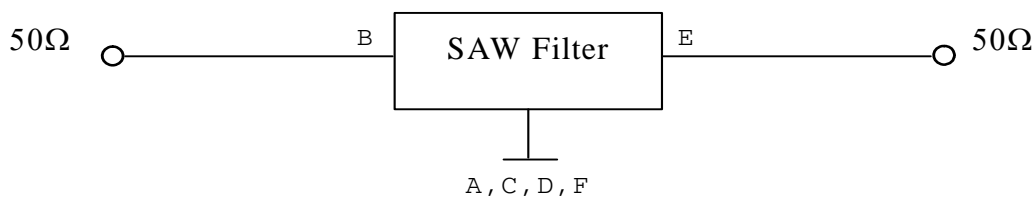
1. Input Power Level: 20dBm
2. DC voltage: 0V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

**B. ELECTRICAL CHARACTERISTICS:**

| Item                                   | Unit  | Min. | Typ. | Max. |
|--|-------|------|------|------|
| Center frequency Fc                    | MHz   | -    | 1090 | -    |
| Insertion Loss (1087 ~ 1093MHz) IL     | dB    | -    | 3.2  | 4.0  |
| Amplitude ripple (1087 ~ 1093MHz)      | dB    | -    | 0.5  | 2.2  |
| VSWR (1087 ~ 1093MHz)                  | -     | -    | 1.7  | 2.4  |
| Attenuation (Reference level from 0dB) |       |      |      |      |
| DC ~ 970MHz                            | dB    | 45   | 56   | -    |
| 1046MHz                                | dB    | 40   | 57   | -    |
| 1150 ~ 1300MHz                         | dB    | 45   | 62   | -    |
| Temperature coefficient of frequency   | ppm/k | -    | -36  | -    |

**C. MEASUREMENT CIRCUIT:**

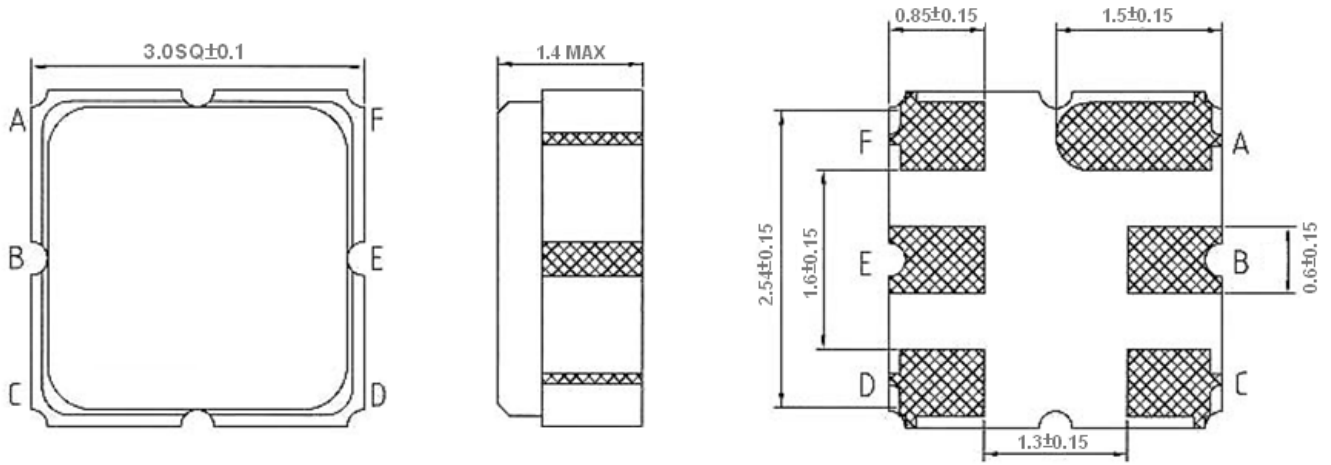
HP Network analyzer



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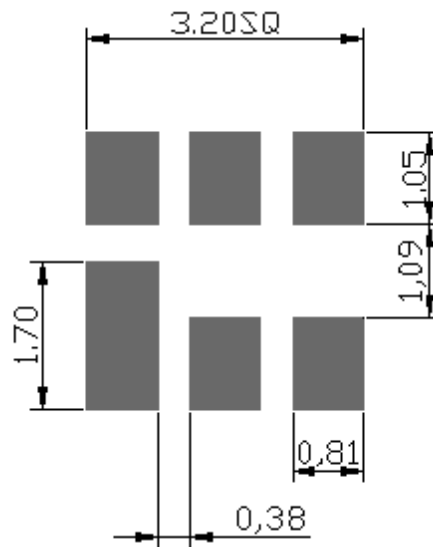
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**D. OUTLINE DRAWING:**



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

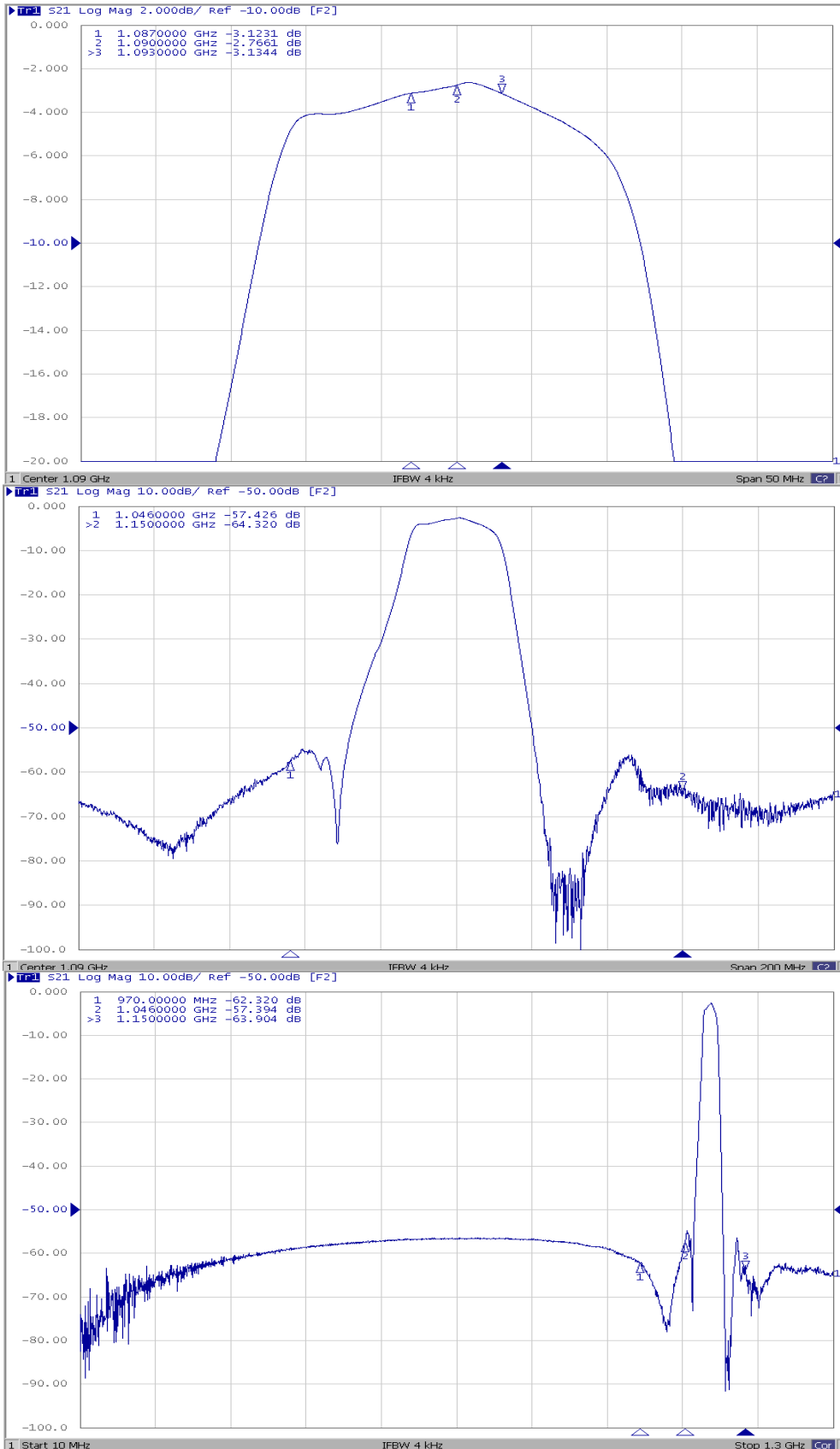
**E. PCB FOOTPRINT:**



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**F. FREQUENCY CHARACTERISTICS:**

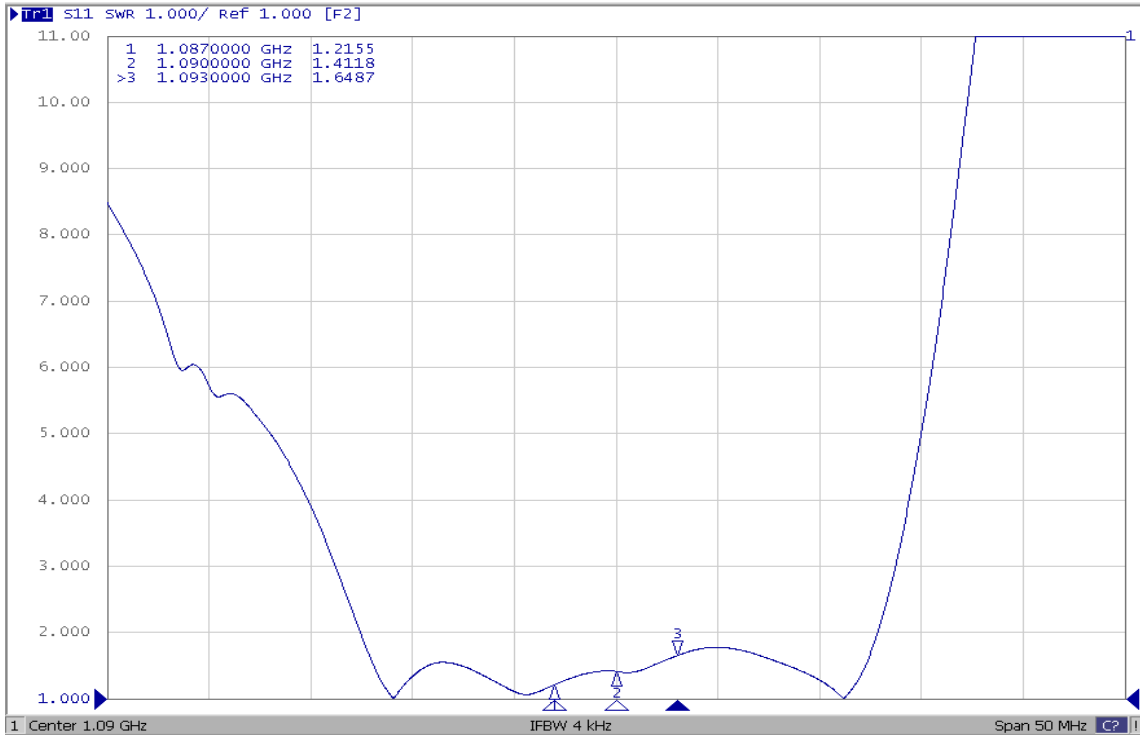


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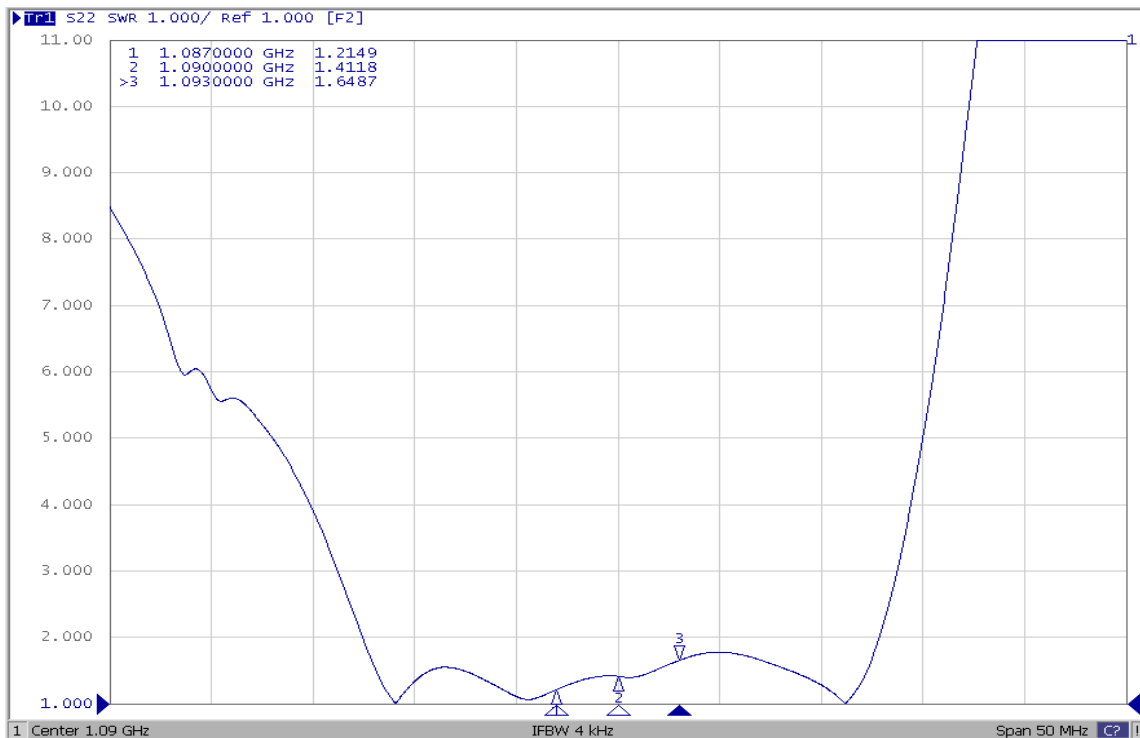
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Reflection Functions

S11



S22

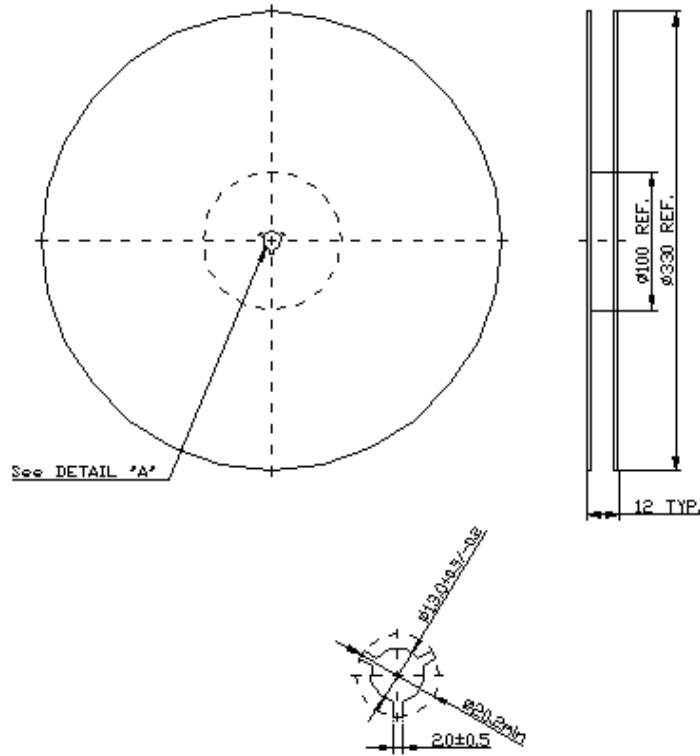


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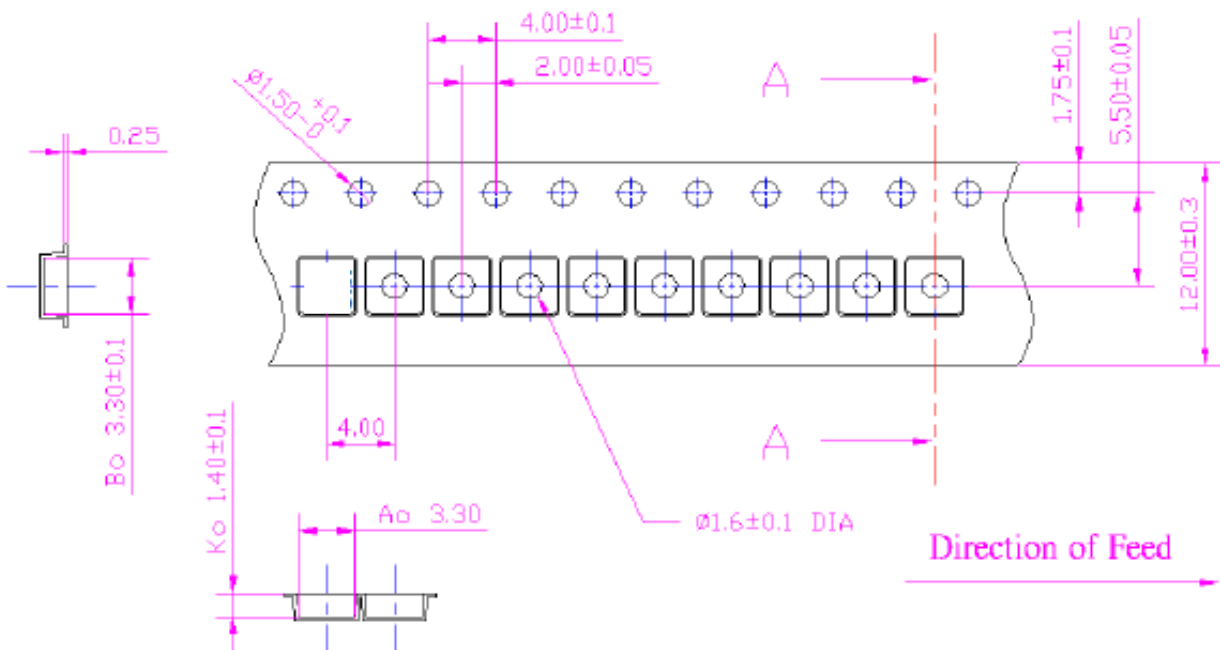
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**G. PACKING:**

1. Reel Dimension



2. Tape Dimension



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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.

