

**SAW Filter 3540.0MHz**

**Model: TA2216A**

**Part No: MP09834**

**Rev No: 1**

**A. MAXIMUM RATING:**

**Electrostatic Sensitive Device (ESD)**

1. Input Power Level: 23dBm, 2h, 95°C
2. DC voltage: 3V
3. Operating Temperature: -40°C to +95°C
4. Storage Temperature: -40°C to +95°C
5. Moisture Sensitivity Level: Level 1 (MSL1)

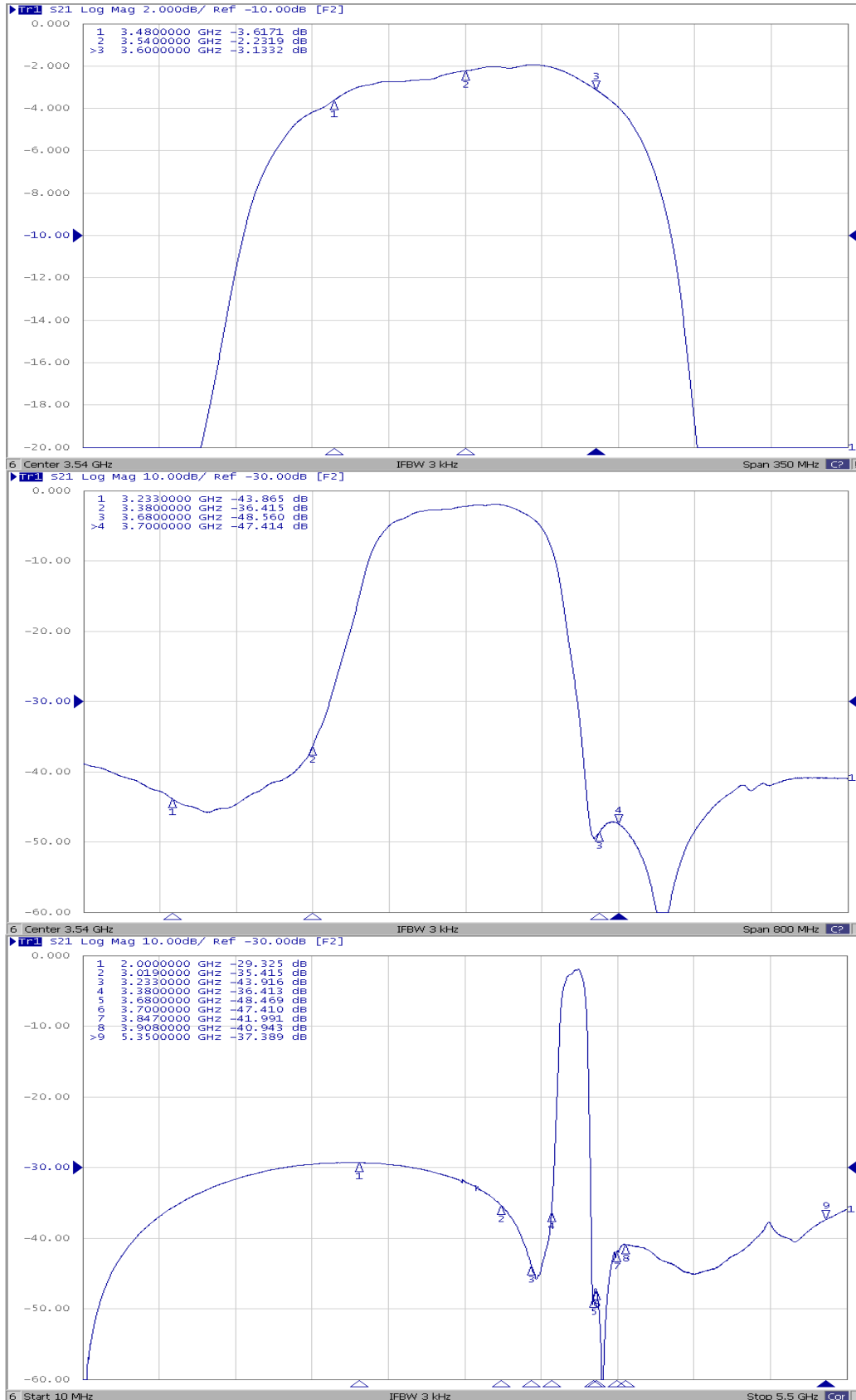
**B. ELECTRICAL CHARACTERISTICS:**

| Item  | Unit   | Min. | Typ. | Max. |
|---|--------|------|------|------|
| Center frequency Fc                                     | MHz    | -    | 3540 | -    |
| Insertion Loss (3480 ~ 3600MHz) IL                      | dB     | -    | 3.6  | 4.6  |
| Amplitude ripple (3480 ~ 3600)                          | dB p-p | -    | 0.8  | 2.5  |
| Amplitude Ripple (3480 ~ 3600MHz) (over any 20MHz span) | dB     | -    | 1.1  | 1.8  |
| VSWR (3480 ~ 3600MHz)                                   | -      | -    | 1.9  | 2.4  |
| Absolute group delay (3480 ~ 3600MHz)                   | ns     | -    | 5    | 20   |
| Group delay ripple (3480 ~ 3600MHz)                     | ns p-p | -    | 5    | 15   |
| Attenuation (Reference level from 0dB)                  |        |      |      |      |
| 10 ~ 2000MHz  | dB     | 27   | 29   | -    |
| 2000 ~ 3019MHz  | dB     | 20   | 29   | -    |
| 3019 ~ 3233MHz  | dB     | 22   | 35   | -    |
| 3233 ~ 3380MHz  | dB     | 10   | 36   | -    |
| 3680 ~ 3700MHz  | dB     | 8    | 47   | -    |
| 3700 ~ 3847MHz  | dB     | 15   | 41   | -    |
| 3847 ~ 3908MHz  | dB     | 20   | 40   | -    |
| 3908 ~ 5350MHz  | dB     | 15   | 37   | -    |
| 5350 ~ 5500MHz  | dB     | 10   | 35   | -    |
| Temperature coefficient of frequency                    | ppm/k  | -    | -36  | -    |

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**C. FREQUENCY CHARACTERISTICS:**

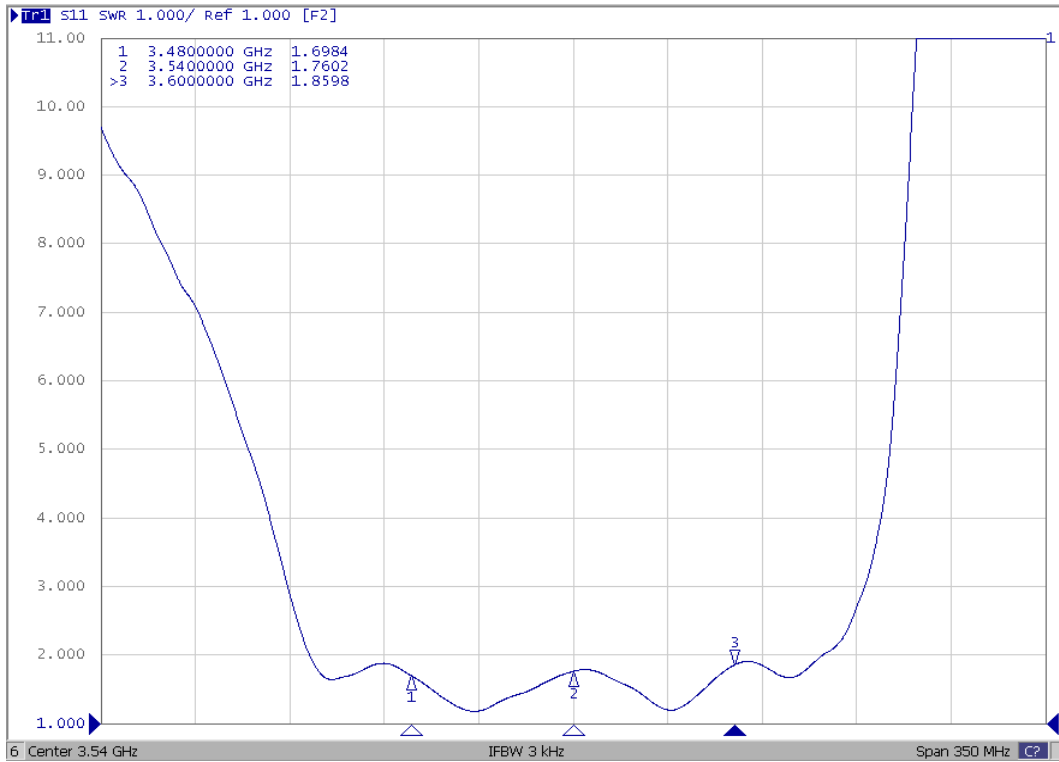


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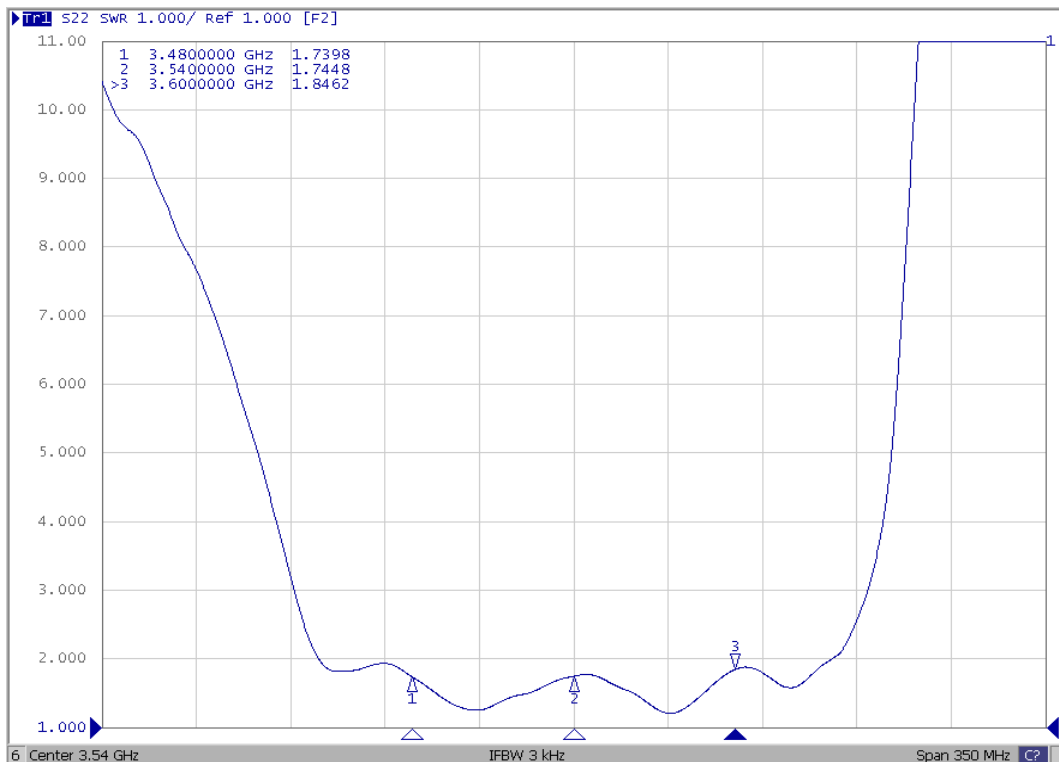
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Reflection Functions

S11



S22

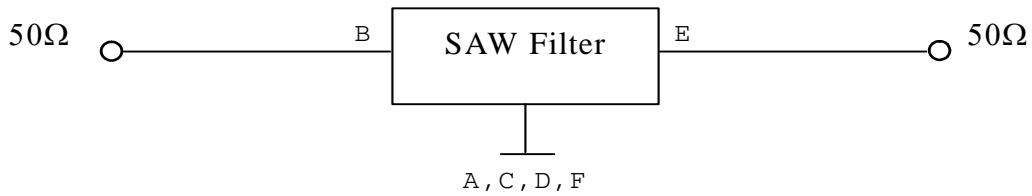


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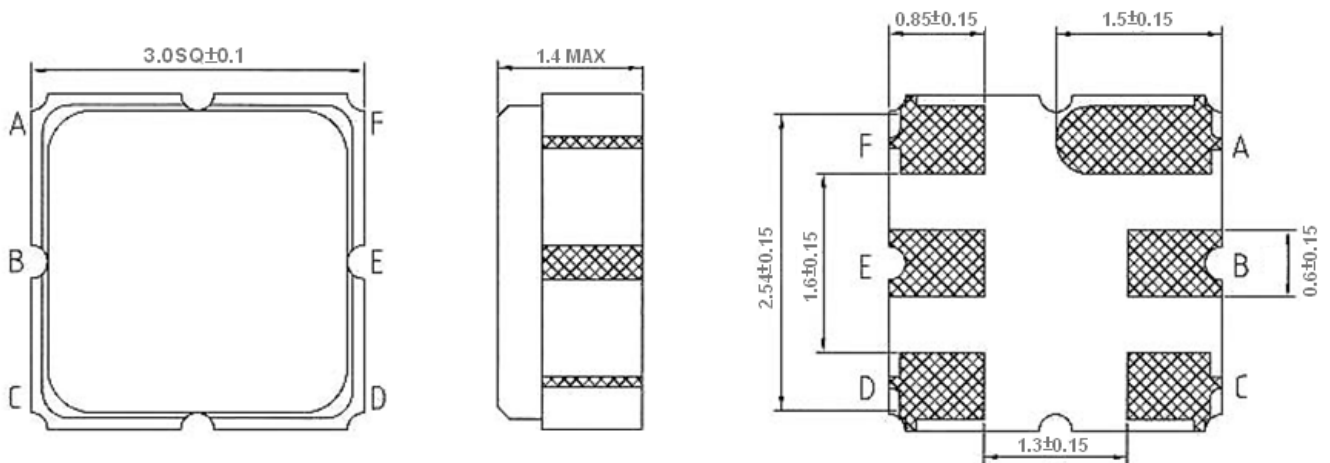
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**D. MEASUREMENT CIRCUIT:**

HP Network analyzer

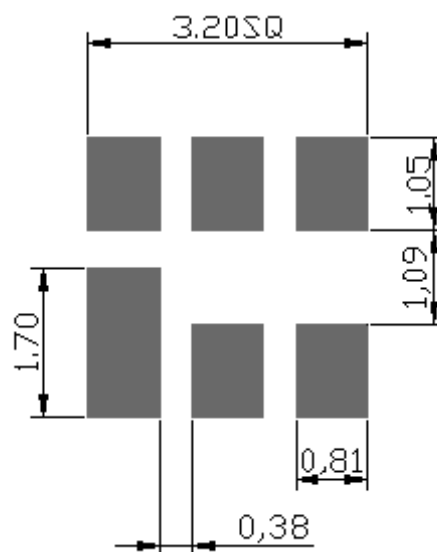


**E. OUTLINE DRAWING:**



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

**F. PCB FOOTPRINT:**

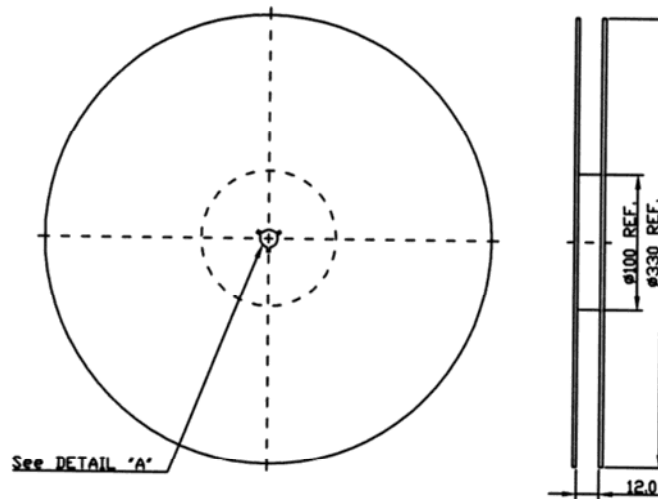


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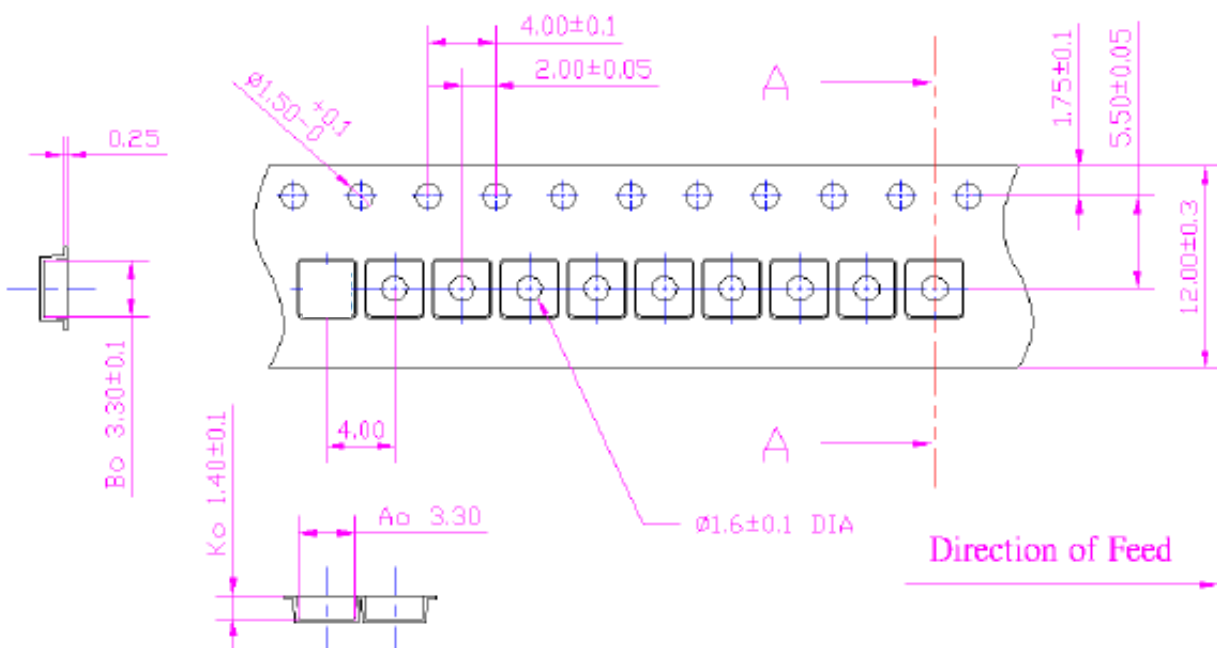
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**G. PACKING:**

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.

