

SAW Filter 1530.0MHz

Model: TA1541A

Part No: MP05092

Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -20°C to +70°C
4. Storage Temperature: -30°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

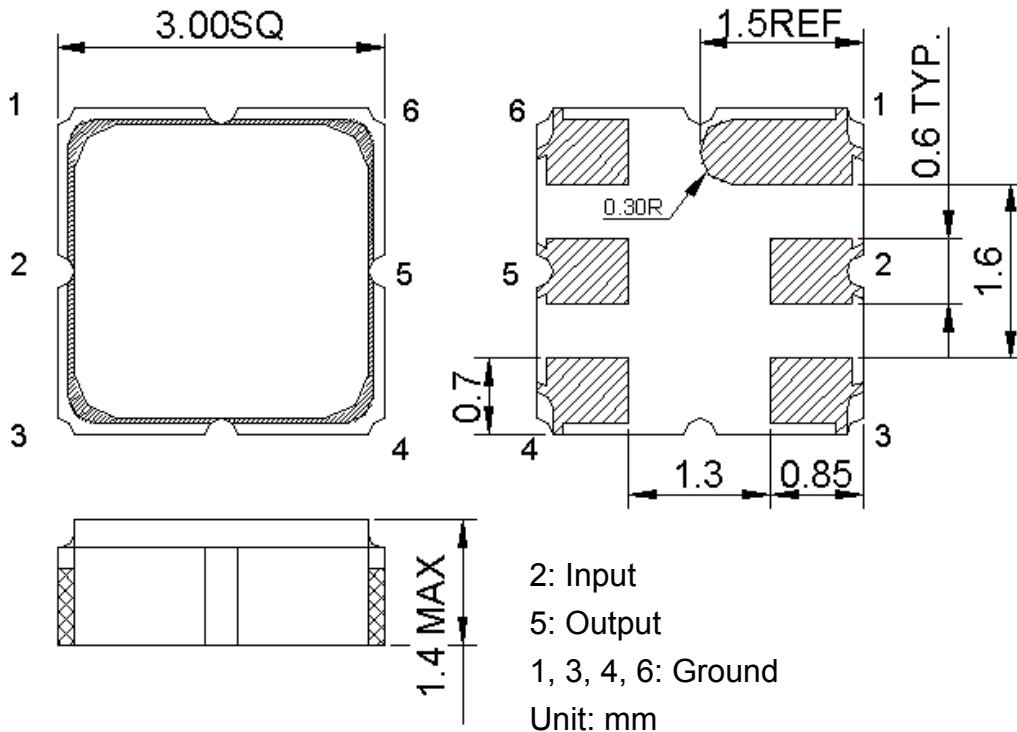
1. Terminating source impedance (single ended): $Z_S = 50\Omega$
2. Terminating load impedance (single ended): $Z_L = 50\Omega$

| Item | Unit | Min. | Typ. | Max. | Note |
|--|--------|------|------|------|------|
| Center frequency F_c | MHz | - | 1530 | - | - |
| Insertion Loss (1512.5 ~ 1547.5MHz) IL | dB | - | 2.1 | 3 | - |
| Amplitude Ripple (1512.5 ~ 1547.5MHz) | dB | - | 0.4 | 1.5 | - |
| VSWR (1512.5 ~ 1547.5MHz) | | - | 1.8 | 2.2 | - |
| Attenuation (reference level from 0dB) | | | | | |
| 1275 ~ 1305MHz | dB | 40 | 44 | - | - |
| 1478MHz | dB | 20 | 23 | - | - |
| 1800 ~ 1900MHz | dB | 40 | 45 | - | - |
| Temperature Coefficient of Frequency | ppm/°C | - | -36 | - | - |

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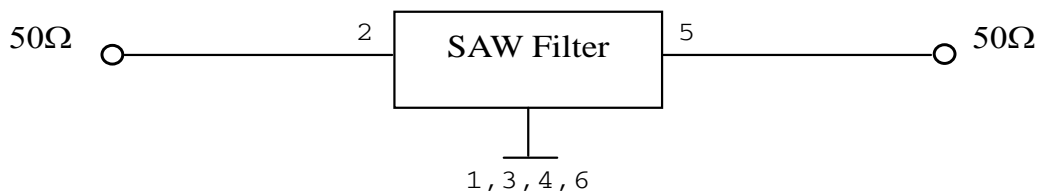
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C. OUTLINE DRAWING:

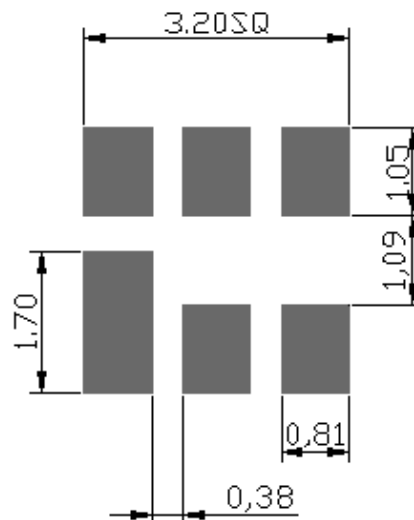


D. MEASUREMENT CIRCUIT:

HP Network analyzer



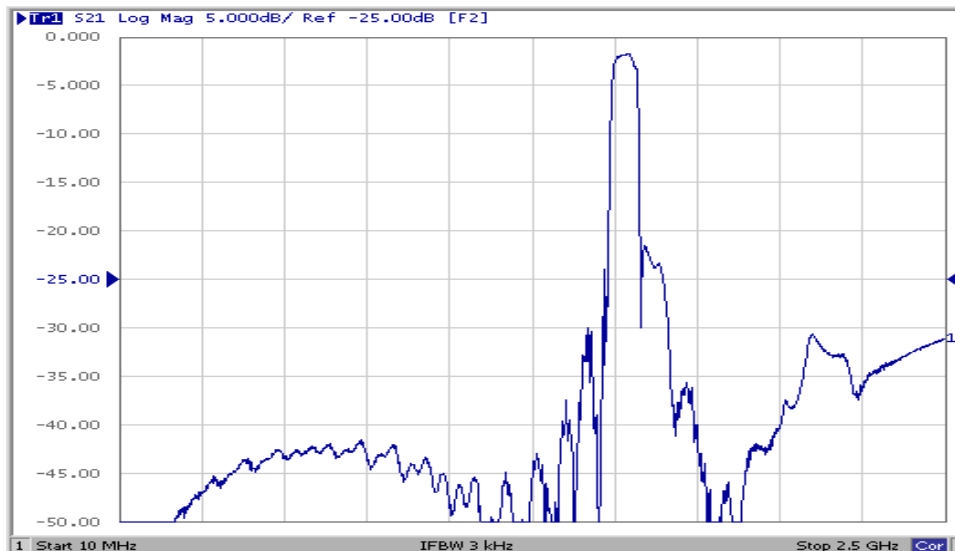
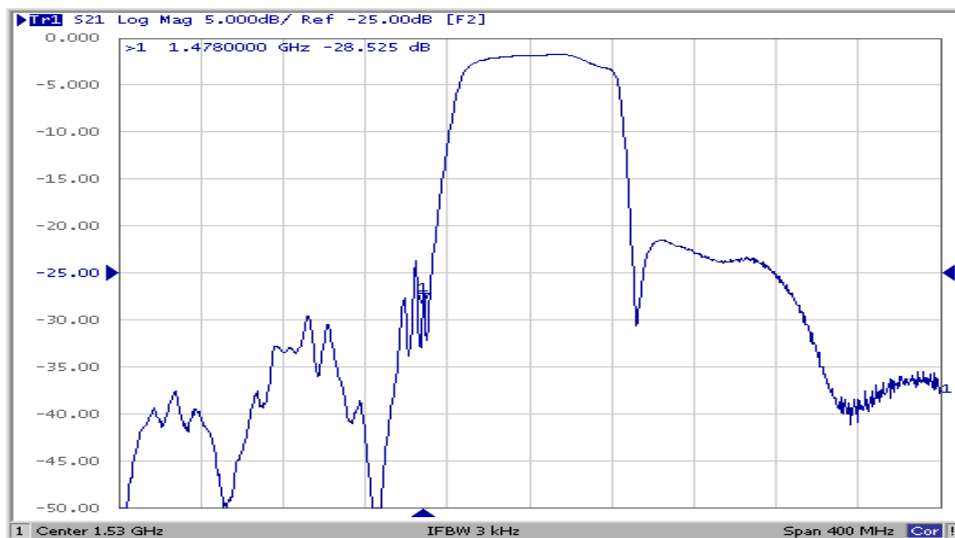
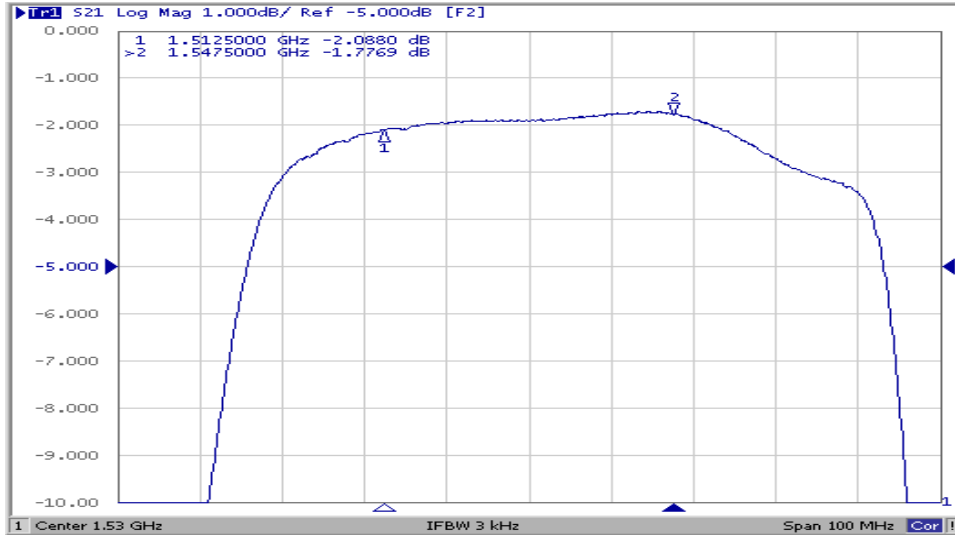
E. PCB FOOTPRINT:



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F. FREQUENCY CHARACTERISTICS:

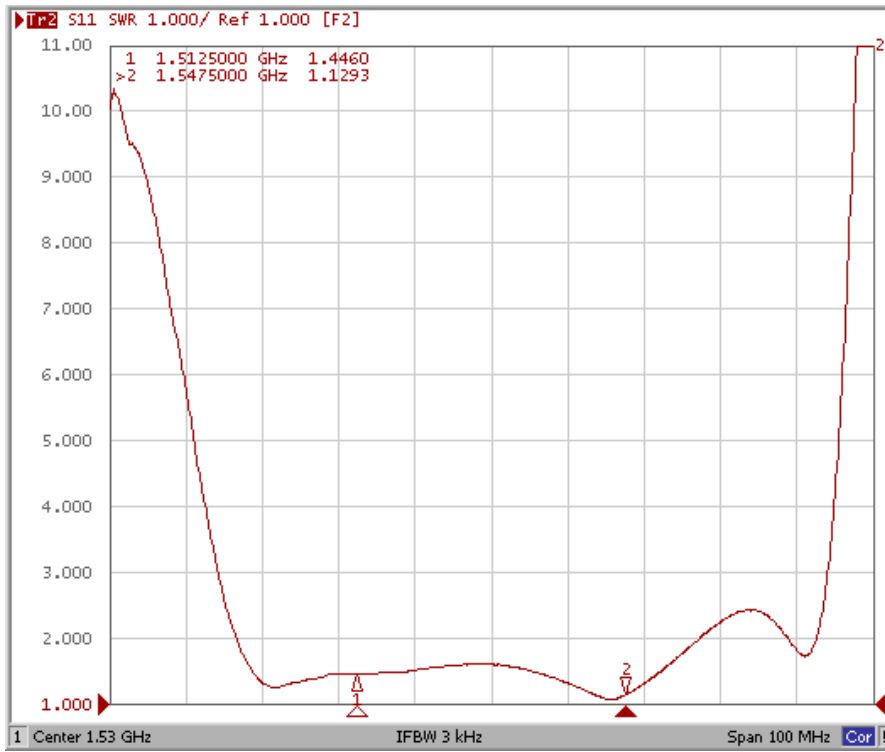


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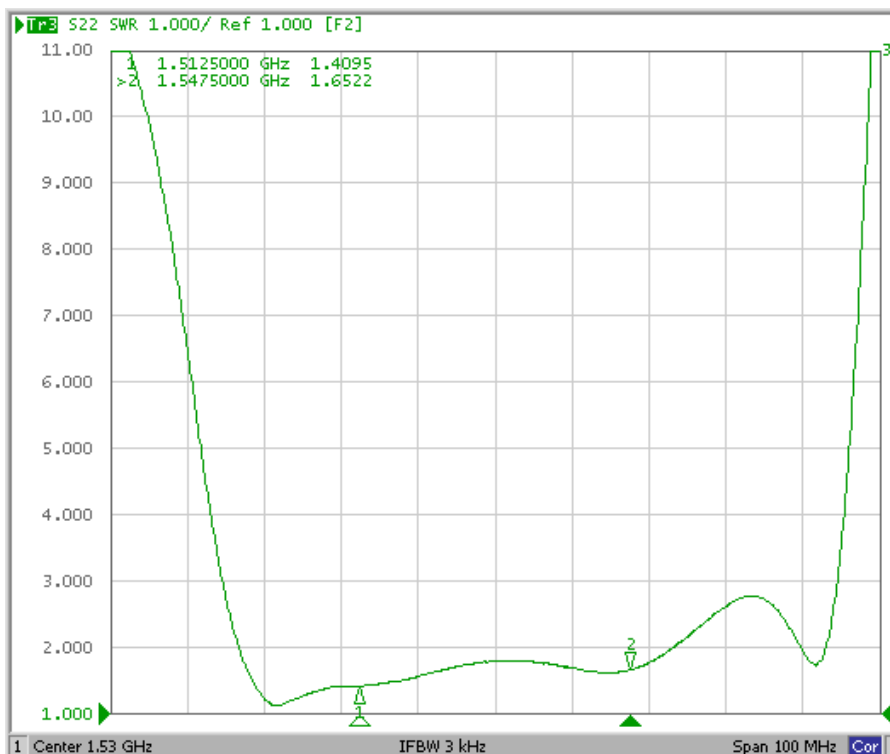
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Reflection Functions

S11



S22



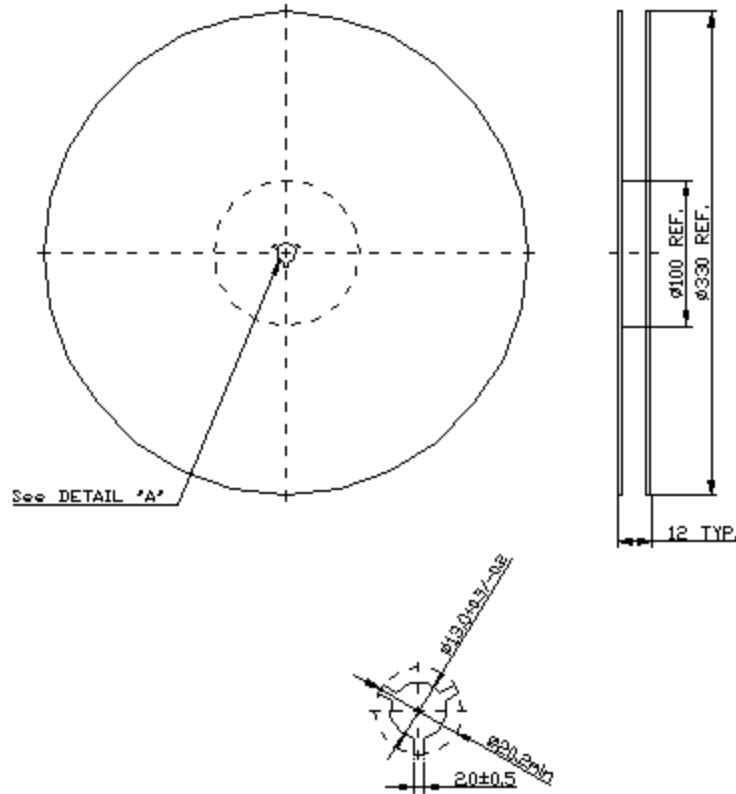
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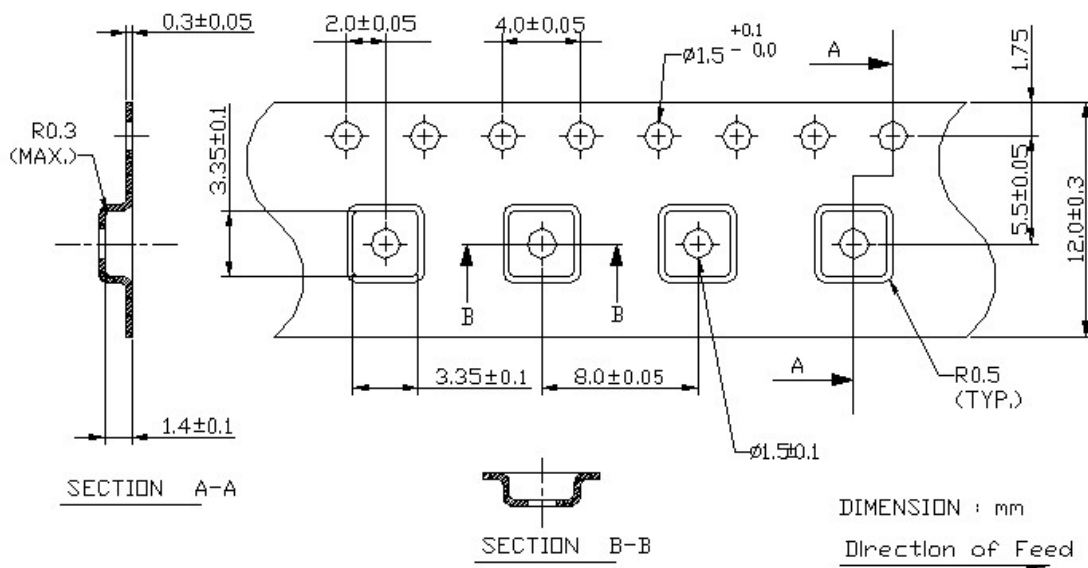
G. PACKING:

1. Reel Dimension

(Please refer to FR-75D10 for packing quantity)



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 245 ~ 260°C peak (min. 10 sec).
4. Time: 2 times.

