

SAW Filter 80.0MHz
Part No: MA07632

Model: TB0292A
Rev No: 6

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 10dBm
2. Operating Temperature: -40°C to +65°C
3. Storage Temperature: -40°C to +85°C
4. Moisture Sensitive Level: Level 1 (MSL1)

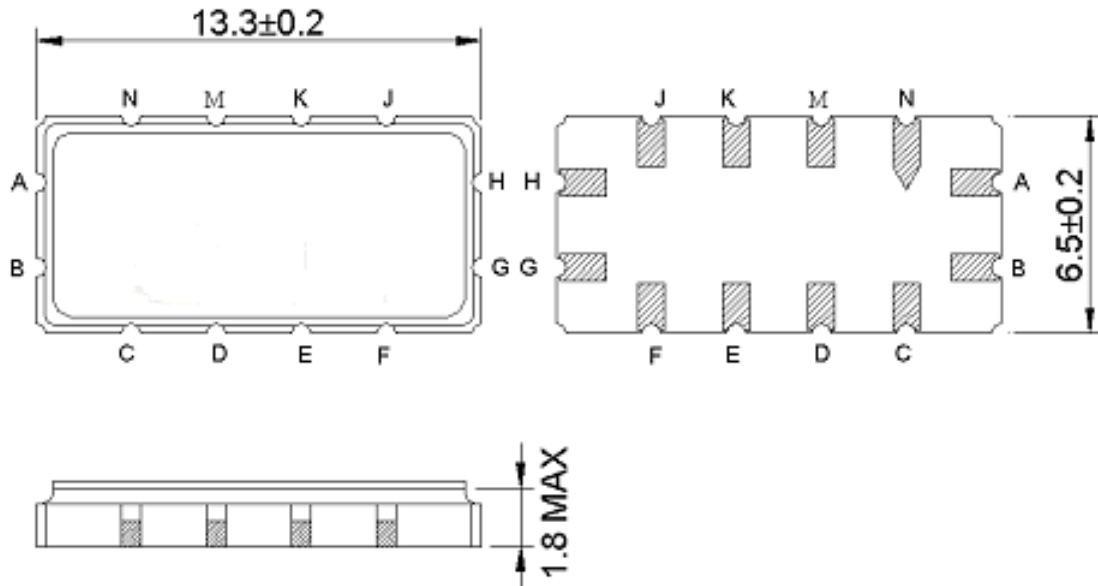
B. ELECTRICAL CHARACTERISTICS:

| Item | Unit | Min. | Typ. | Max. |
|---------------------------------------|--------|------|------|------|
| Center Frequency Fc | MHz | | 80 | - |
| Insertion Loss at Fc IL | dB | | 9.89 | 11.5 |
| 1dB Bandwidth | MHz | 8.4 | 11 | - |
| 3dB Bandwidth | MHz | 9.0 | 11.7 | - |
| 35dB Bandwidth | MHz | - | 14.2 | - |
| Amplitude Ripple (Fc ± 3.7MHz) | dB | - | 0.6 | 1.0 |
| Group Delay Ripple (Fc ± 3.7MHz) | ns | - | 110 | 160 |
| Phase Delay (Fc ± 3.7MHz) | deg | - | 3.5 | - |
| Attenuation (Reference level from IL) | | | | |
| 10 ~ 71MHz | dB | 40 | 43 | - |
| 89 ~ 140MHz | dB | 40 | 44 | - |
| Substrate Material | YZ-LN | | | |
| Temperature Coefficient of Frequency | ppm/°C | - | -94 | - |

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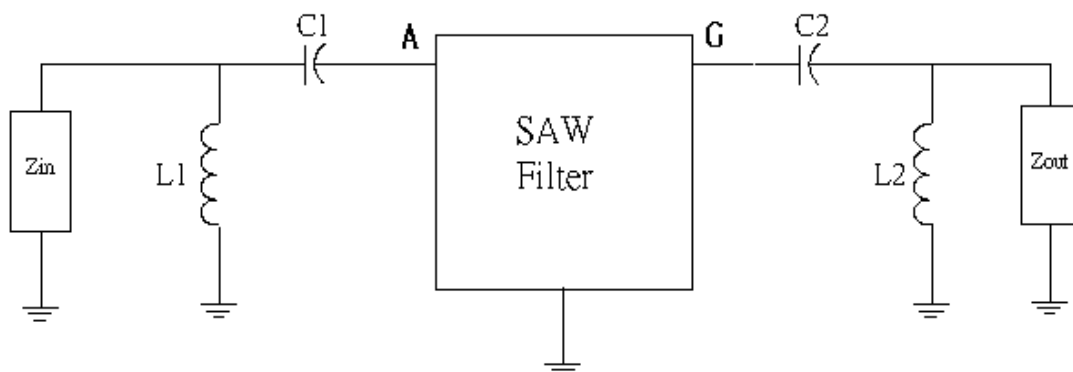
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C. OUTLINE DRAWING:



- A: RF Input or balanced input+
- B: RF Input ground or balanced input-
- G: RF Output or balanced output+
- H: RF Output ground or balanced output-
- C, D, E, F, J, K, M, N: To be ground

D. MEASUREMENT CIRCUIT:



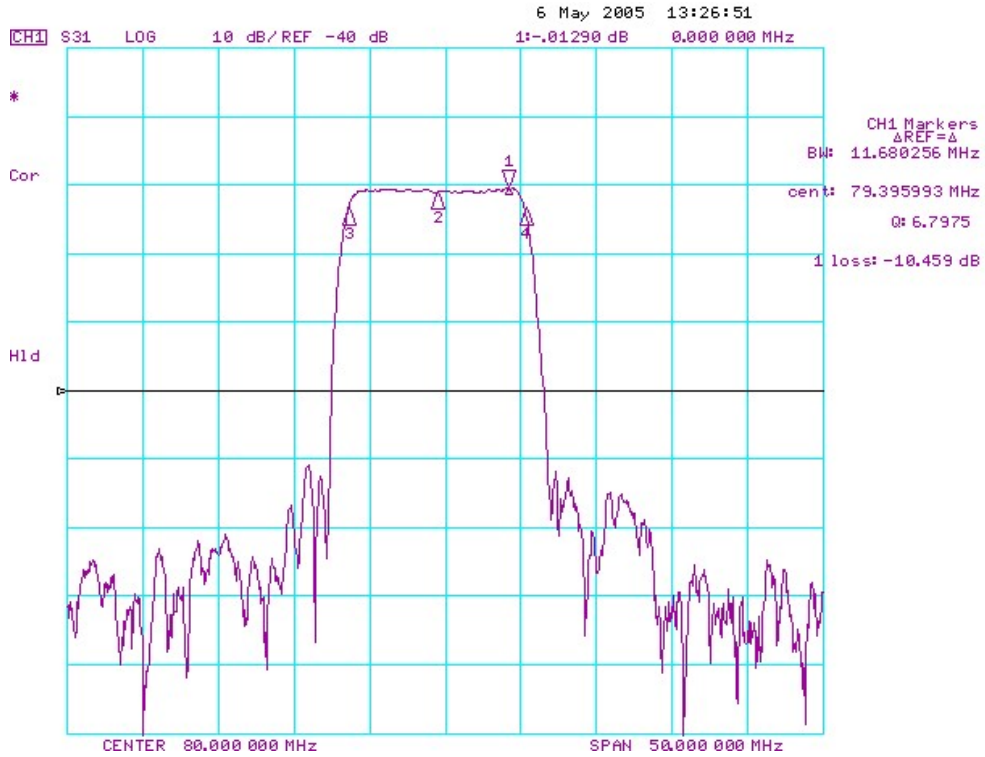
C1 = 68pF, L1 = 270nH
 C2 = 72pF, L2 = 150nH

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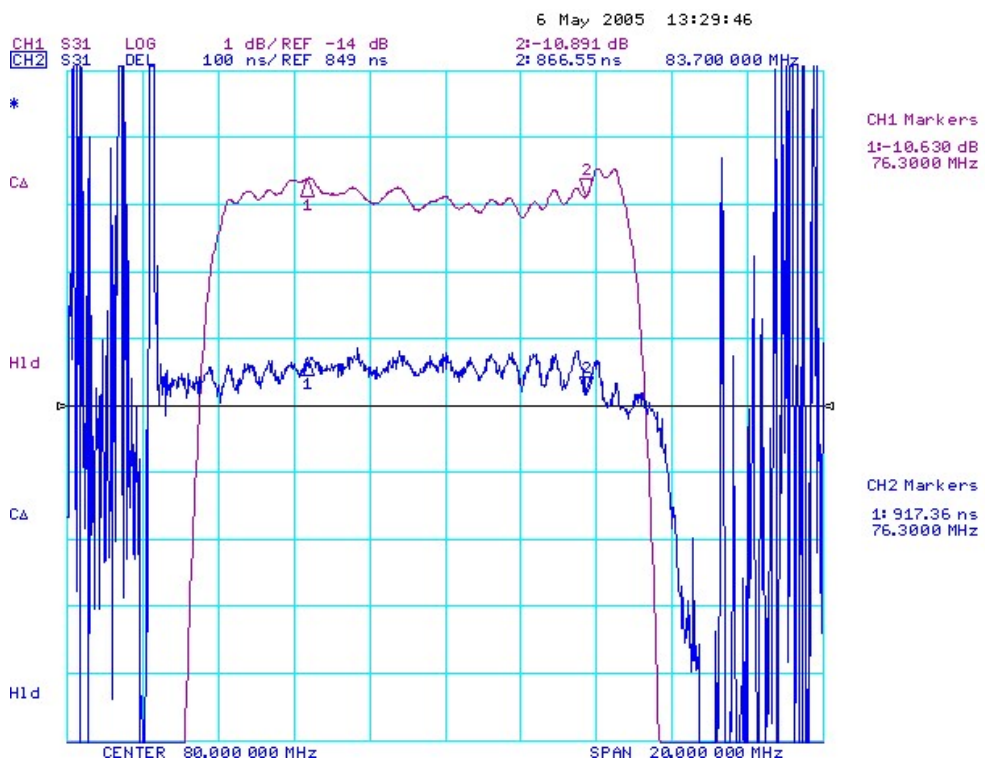
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E. FREQUENCY CHARACTERISTICS:

1. S21 Response:



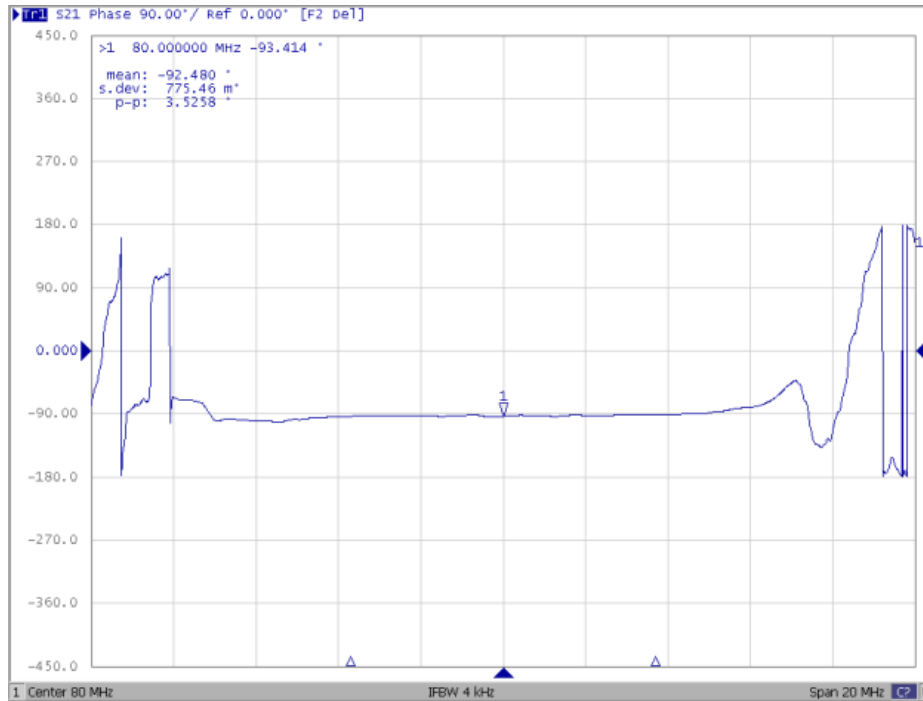
2. Group delay:



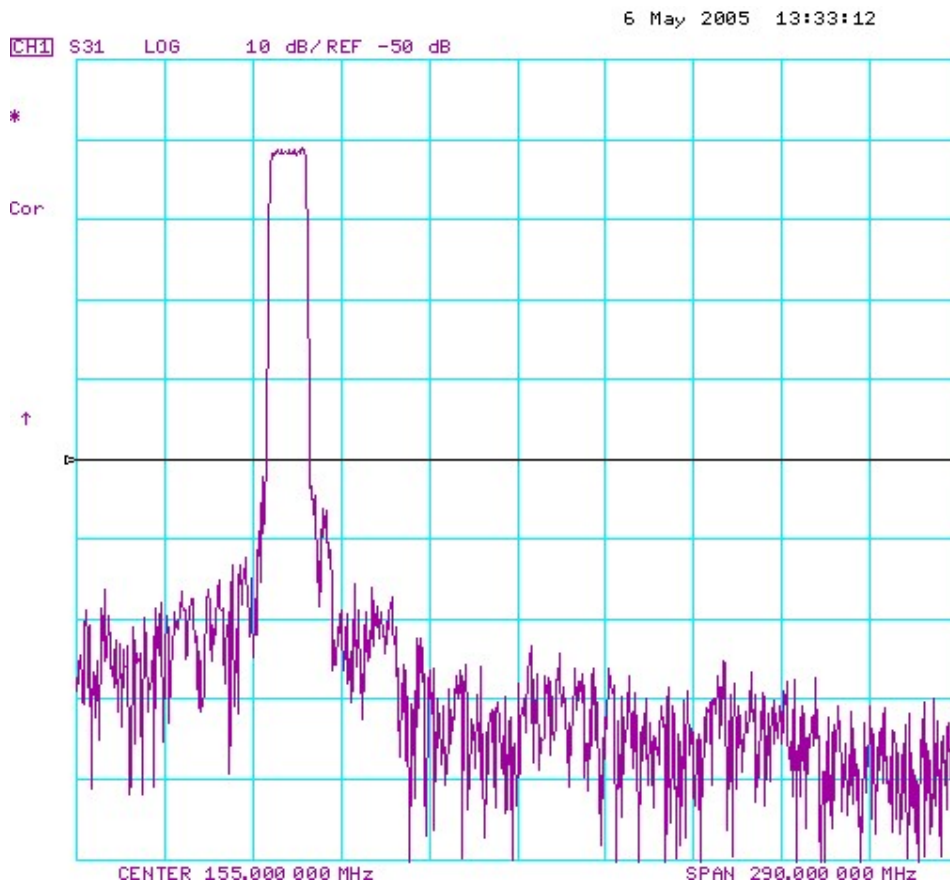
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3. Phase delay:



4. Wideband Response:

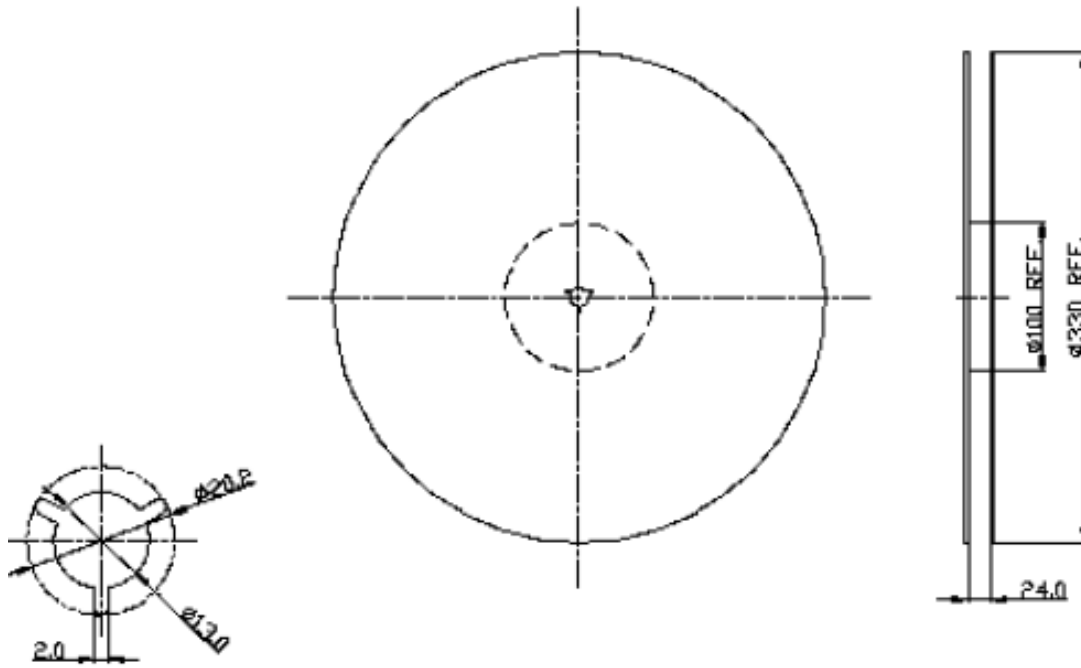


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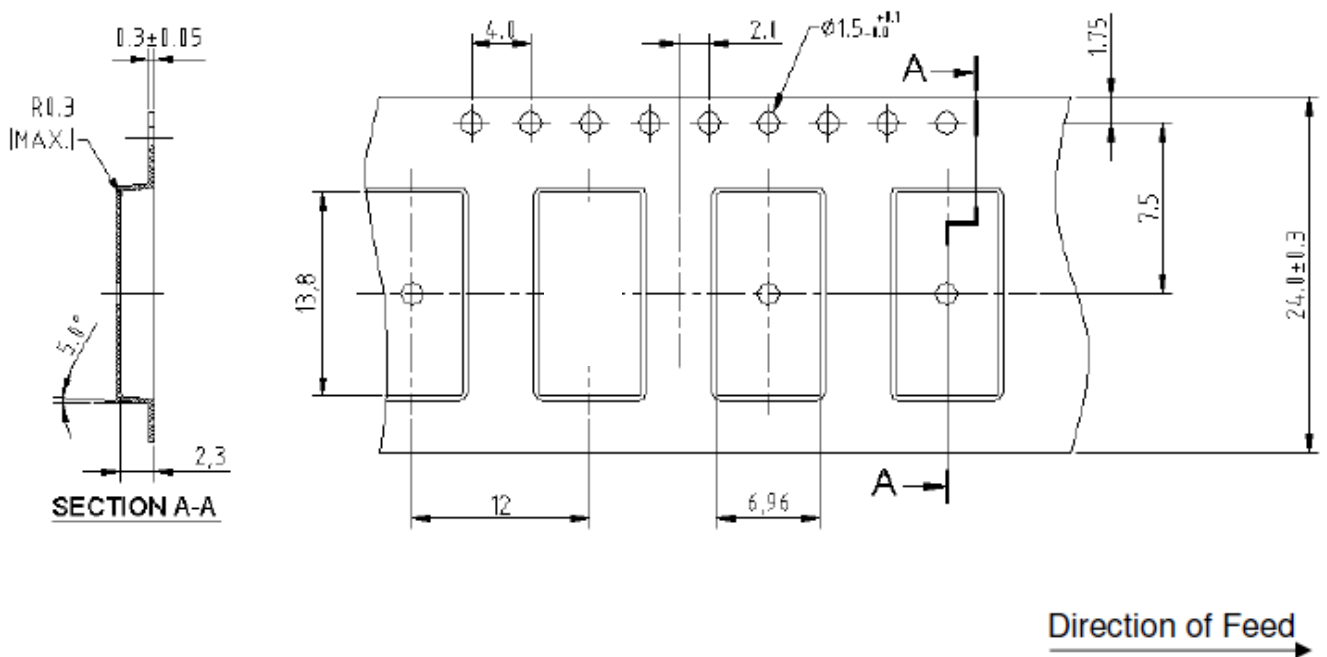
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F. PACKING:

1. Reel Dimension



2. Tape Dimension



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G. 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.

