

SAW Filter 1178.120MHz

Model: TA0844B

Part No: MP06166

Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -50°C to +95°C

B. ELECTRICAL CHARACTERISTICS:

1. Terminating source impedance (differential): $Z_S = 150\Omega // 27nH$
2. Terminating load impedance (differential): $Z_L = 150\Omega // 27nH$

| Item | Unit | Min. | Typ. | Max. | Note |
|--|------|------|---------|------|------|
| Center Frequency Fc | MHz | - | 1178.12 | - | - |
| Bandwidth at -2dB | MHz | 46 | 55 | - | - |
| Insertion Loss in 1155.12 ~ 1201.12MHz | dB | - | 2.5 | 5 | - |
| Amplitude ripple (1155.12MHz ~ 1201.12MHz) | dB | - | 0.9 | 2 | - |
| Phase error (1155.12MHz ~ 1201.12MHz) (3) | deg | - | 3 | 5.5 | - |
| I/O VSWR (1155.12MHz ~ 1201.12MHz) | | - | 1.7 | 2.5 | - |
| CMDR (1155.12MHz ~ 1201.12MHz) | dB | 35 | 39 | - | - |
| Attenuation (1) | | | | | |
| 50 ~ 1096.06MHz | dB | 42 | 55 | - | - |
| 1260.18 ~ 2000MHz | dB | 42 | 50 | - | - |
| 2000 ~ 3500MHz | dB | 35 | 44 | - | - |
| 3500 ~ 6000MHz | dB | 22 | 26 | - | - |

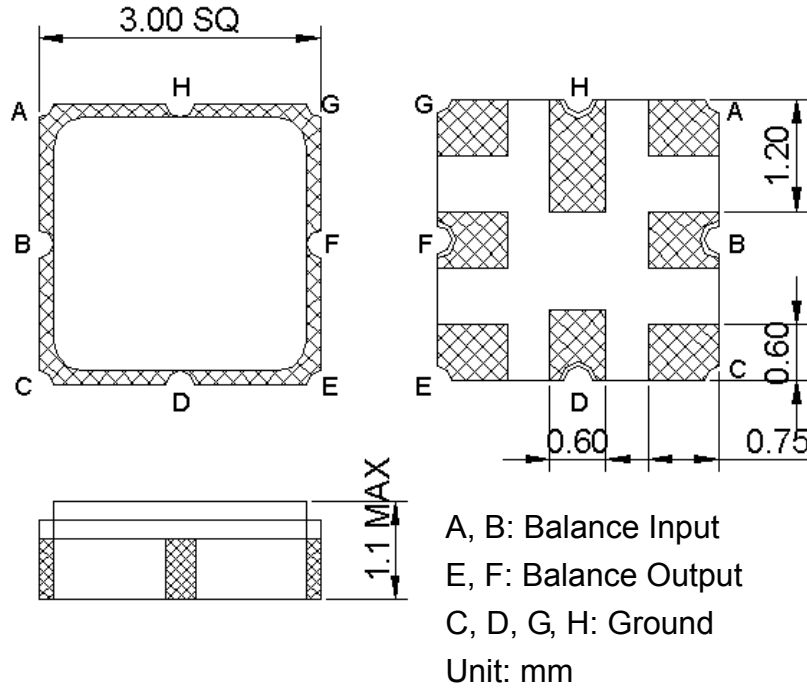
Notes:

1. The amplitude reference is insertion loss at Fc.
2. The amplitude ripple is defined as the max. level - min. level over any 30MHz block of the given bandwidth.
3. The phase error is measured over any 30MHz block of the given bandwidth.

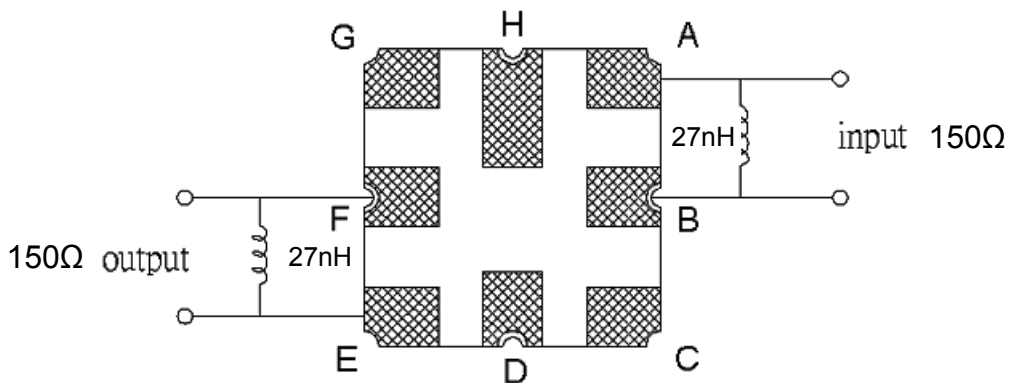
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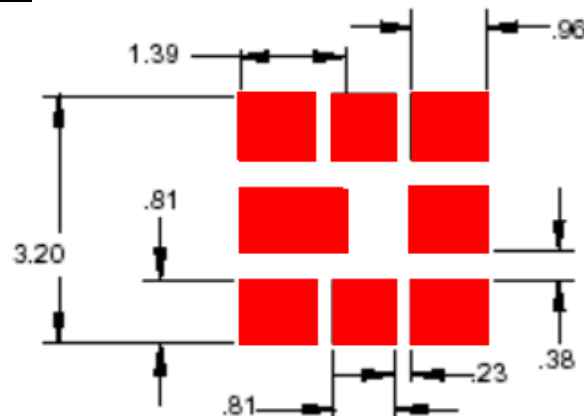
C. OUTLINE DRAWING:



D. MEASUREMENT CIRCUIT:



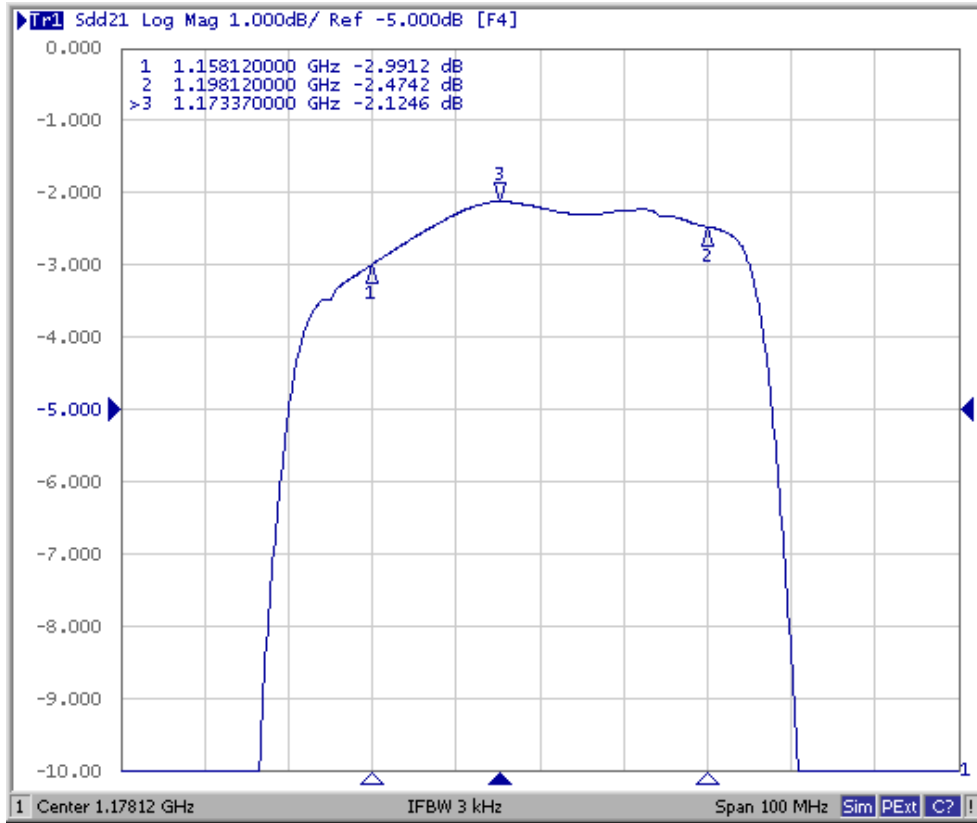
E. PCB FOOTPRINT:



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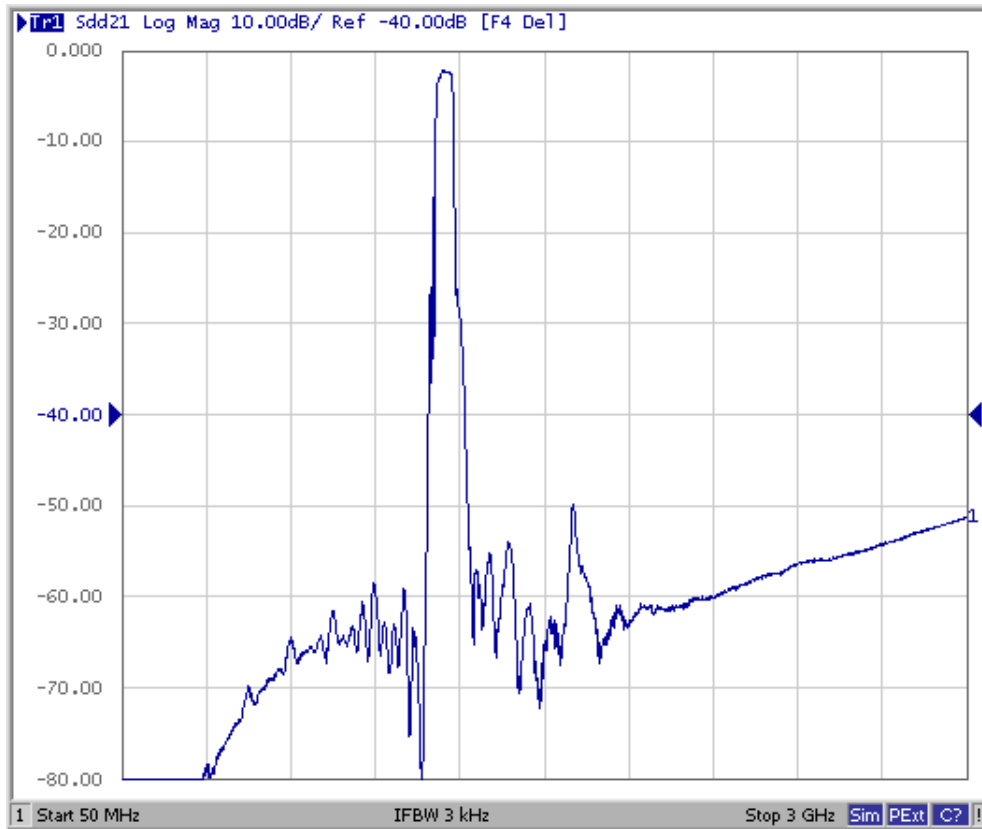
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F. FREQUENCY CHARACTERISTICS:



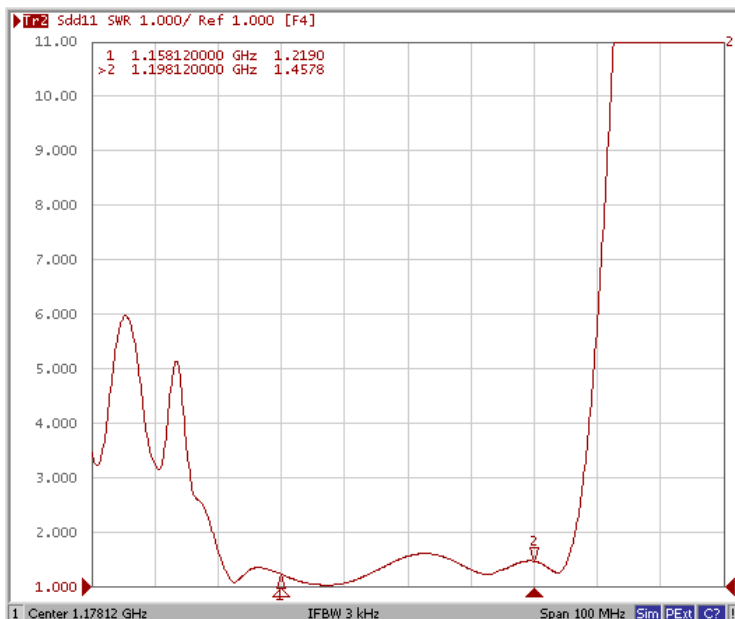
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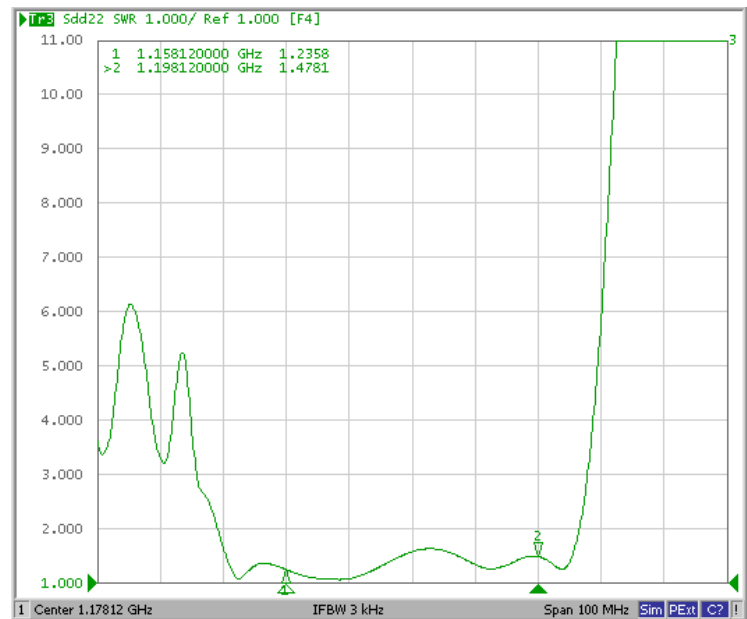


Reflection Functions

S11



S22

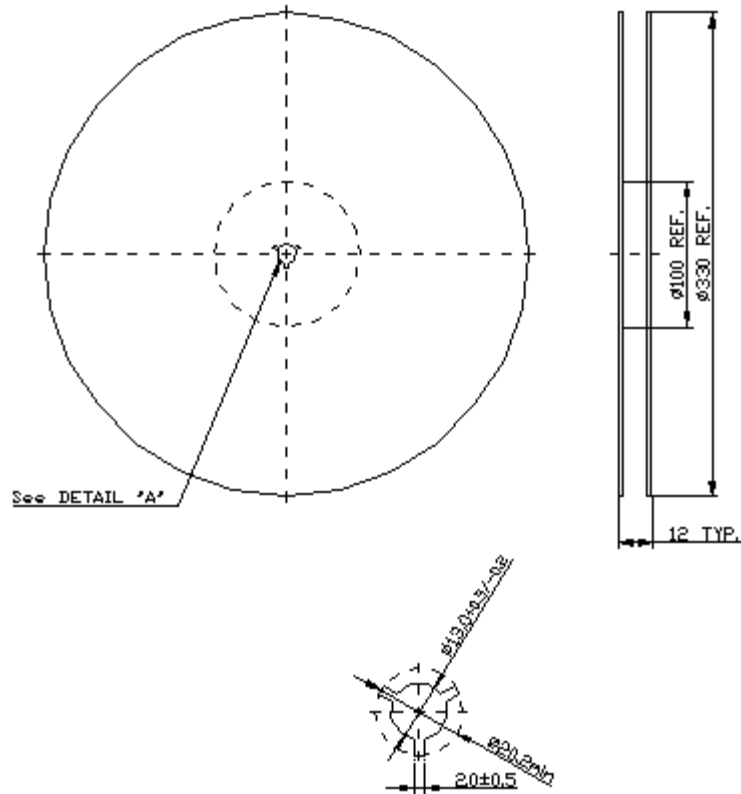


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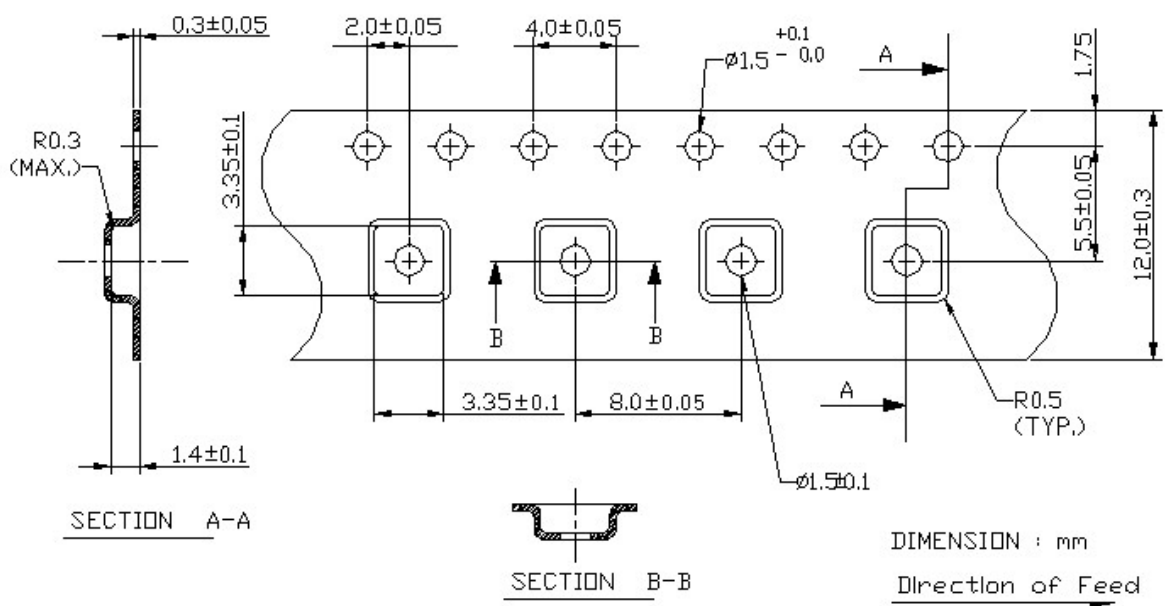
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G. PACKING:

1. Reel dimension (reel count: 7" = 1000; 13" = 3000)



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. 10sec).
4. Time: 2 times.

