

SAW Filter 1790.480MHz
Part No: MP01169

Model: TA0728A
Rev No: 2

A. MAXIMUM RATING:

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): $Z_S = 150\Omega // 22nH$
2. Terminating load impedance (differential): $Z_L = 150\Omega // 22nH$

| Item | Unit | Min. | Typ. | Max. | Note |
|---|------|------|---------|------|------|
| Center Frequency Fc | MHz | - | 1790.48 | - | - |
| Bandwidth at -2 dB | MHz | 40 | 60 | - | - |
| Insertion Loss in 1770.48 ~ 1810.48MHz | dB | - | 2.8 | 5 | - |
| Amplitude ripple (1770.48 ~ 1810.48MHz) | dB | - | 0.8 | 2 | - |
| Phase error (1770.48 ~ 1810.48MHz) ⁽³⁾ | deg | - | 1.2 | 5 | - |
| Group Delay ripple(1770.48 MHz ~ 1810.48MHz) | ns | - | 8 | 25 | - |
| I/O VSWR (1770.48 ~ 1810.48 MHz) | | - | 1.8 | 2.5 | - |
| Attenuation ⁽¹⁾ | | | | | |
| 50 ~ 1708.42MHz | dB | 44 | 49 | - | - |
| 1872.54 ~ 1912.5MHz | dB | 44 | 56 | - | - |
| 1912.5 ~ 4250MHz | dB | 38 | 41 | - | - |
| 4250 ~ 6000MHz | dB | 30 | 38 | - | - |

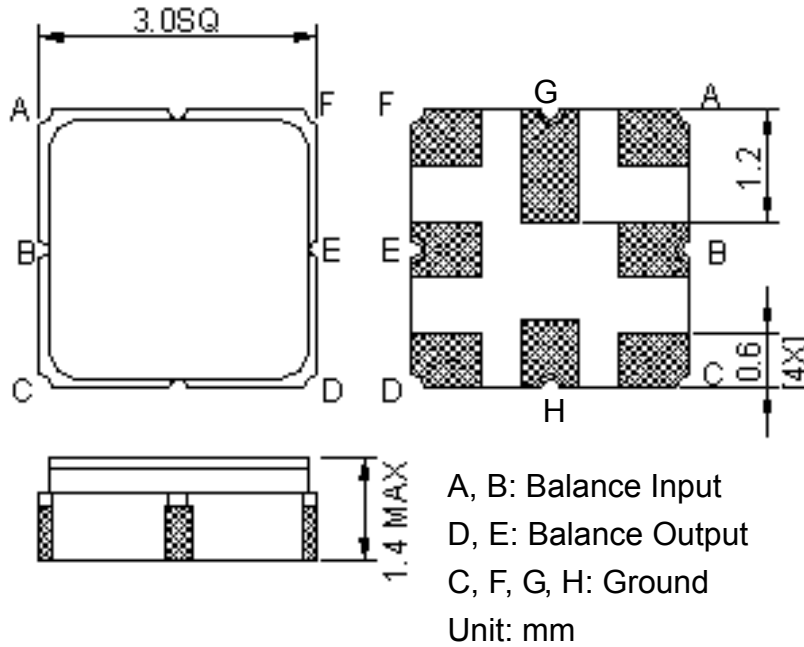
Notes:

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.

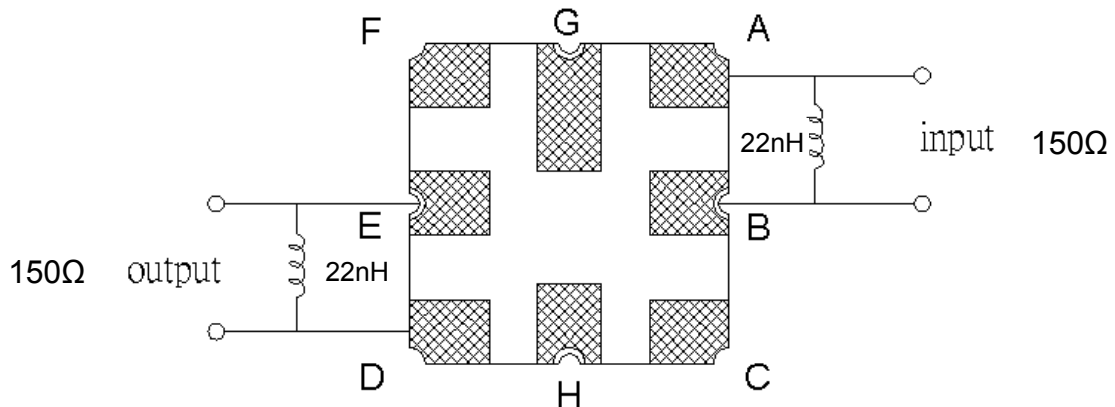
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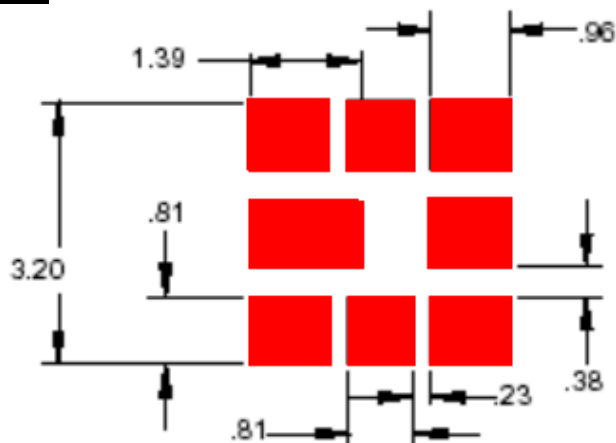
C. OUTLINE DRAWING:



D. MEASUREMENT CIRCUIT:



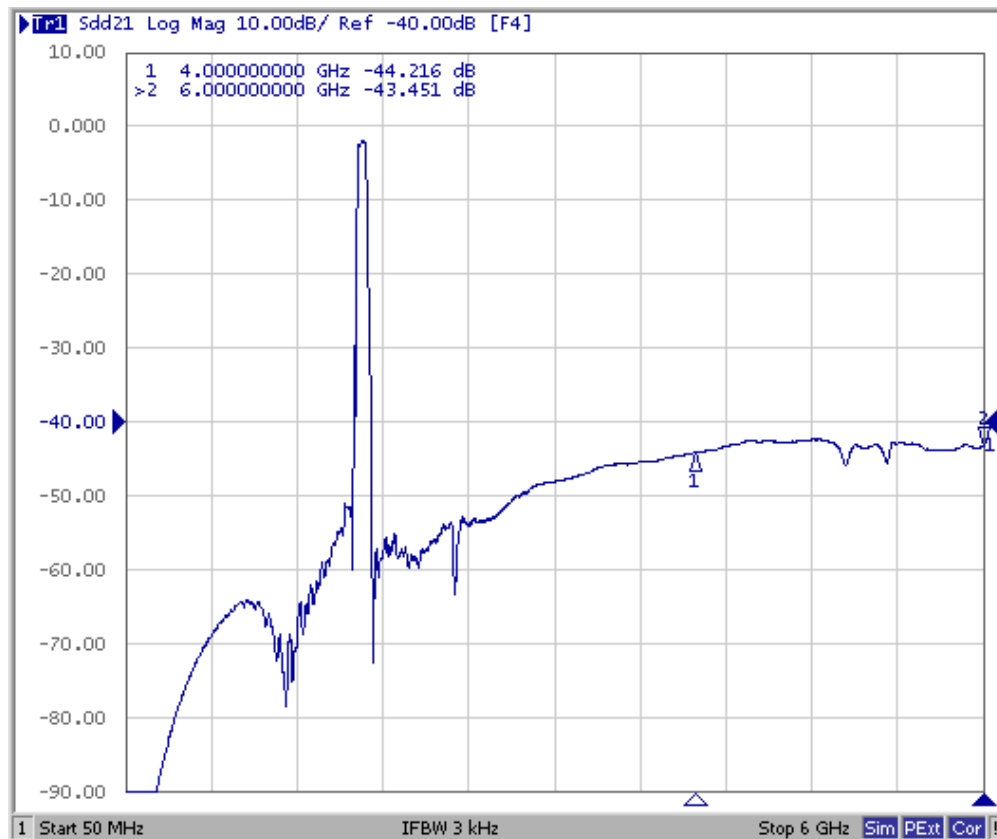
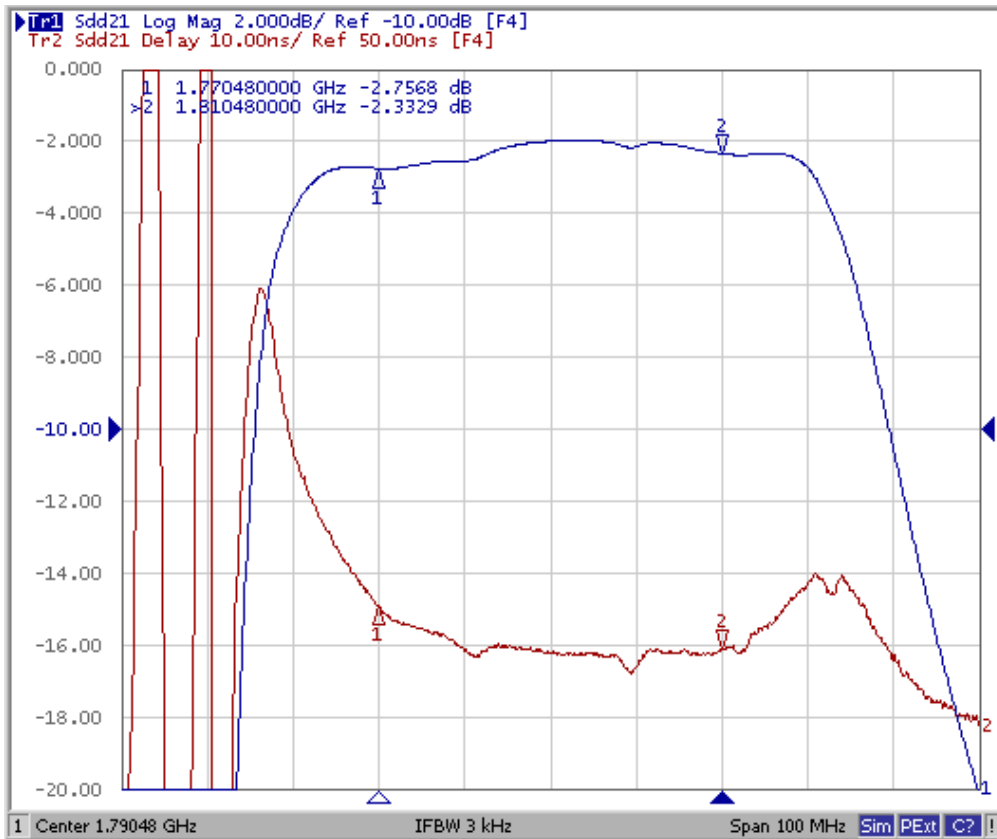
E. PCB FOOTPRINT:



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F. FREQUENCY CHARACTERISTICS:

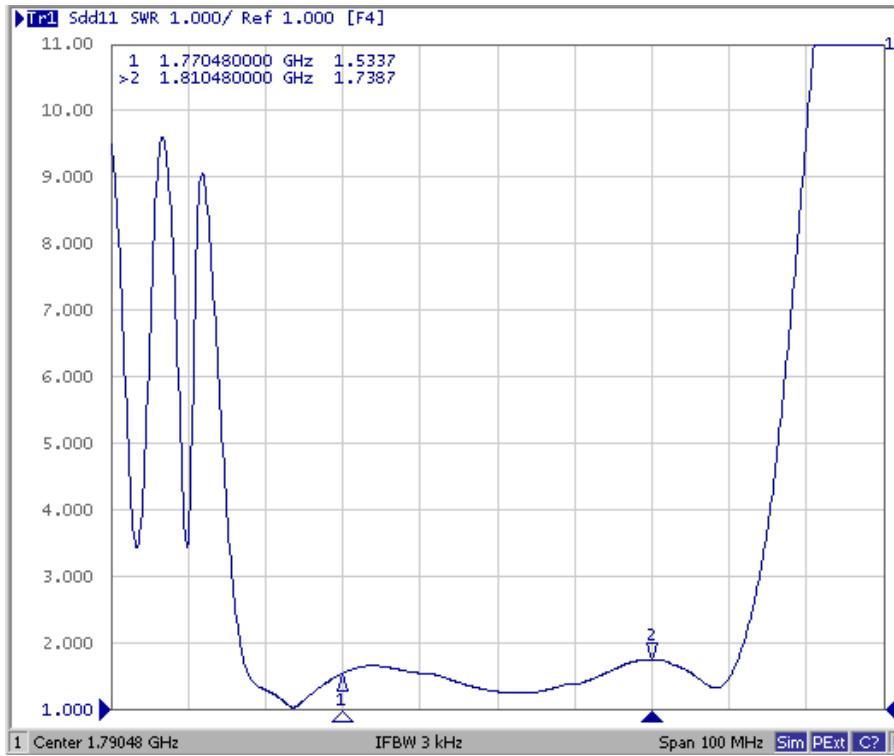


SAW Filter 1790.480MHz
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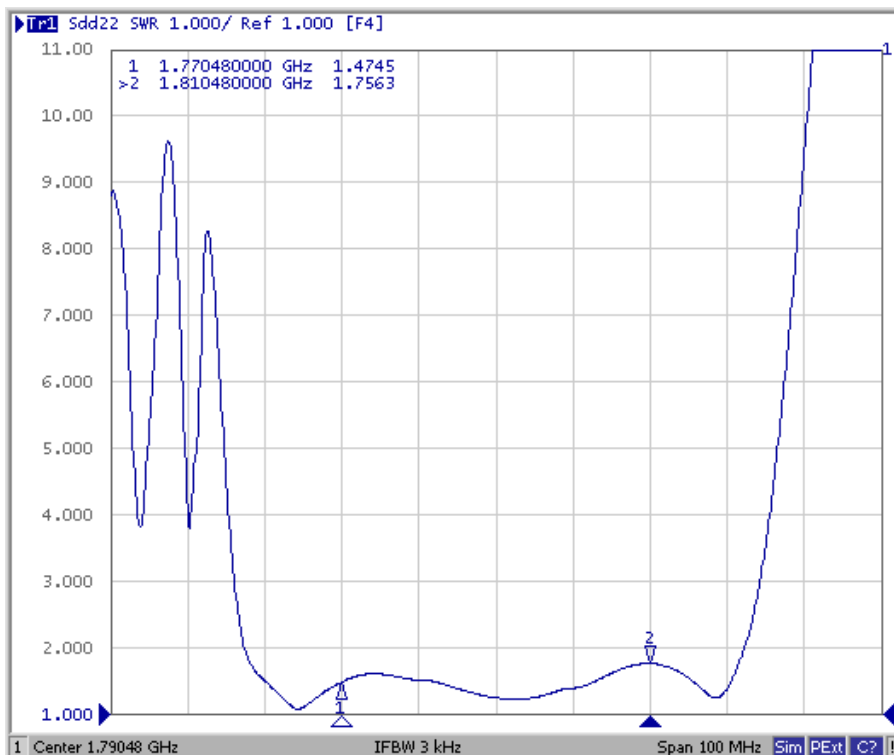
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Reflection Functions

S11



S22

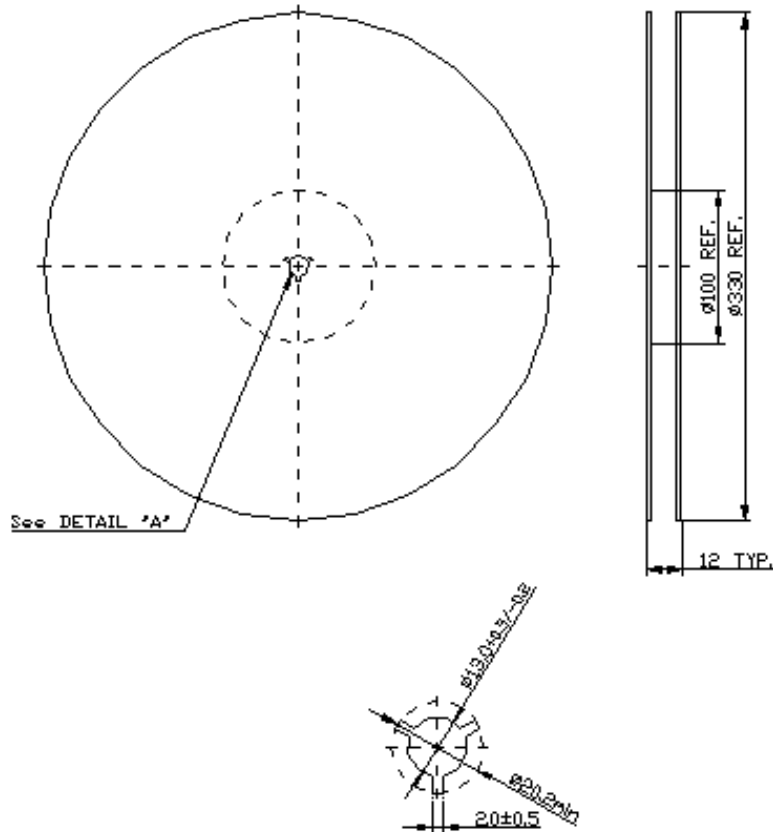


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Part No: MP01169

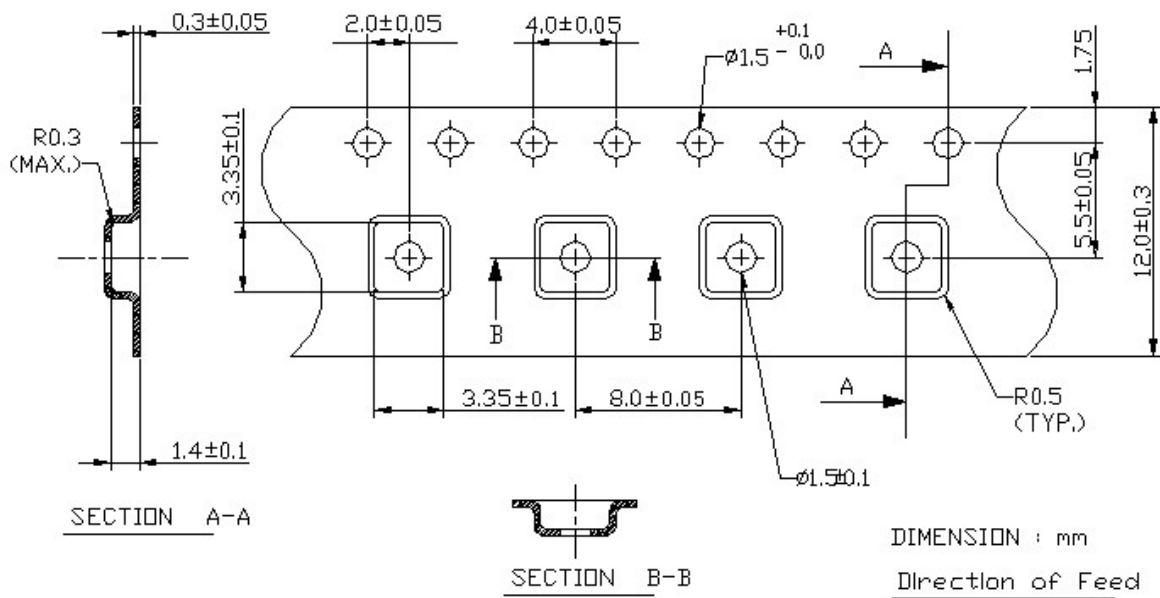
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G. PACKING:

1. Reel Dimension (Reel Count: 7" = 1000; 13" = 3000)



2. Tape Dimension



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H. RECOMMENDED REFLOW PROFILE:

