

SAW Filter 1747.50MHz
Part No: MA07865

Model: TA0391A
Rev. No: 1

A. MAXIMUM RATING:

1. Input Power Level: 5dBm
2. DC voltage: 0V
3. Operating Temperature: -20°C to +70°C
4. Storage Temperature: -40°C to +85°C

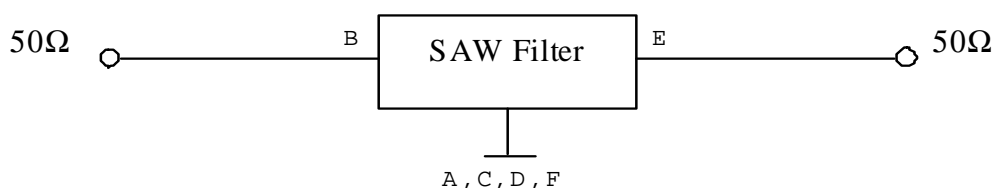
B. ELECTRICAL CHARACTERISTICS:

| Item | Min. | Typ. | Max. |
|---|------|--------|------|
| Center frequency Fc (MHz) | - | 1747.5 | - |
| Insertion loss (1710 ~ 1785MHz) IL (dB) | - | 2.6 | 4.0 |
| Amplitude ripple (1710 ~ 1785MHz) (dB) | - | 1.6 | 2.5 |
| Attenuation (Reference level from 0dB) | | | |
| 10 ~ 1670MHz (dB) | 15 | 23 | - |
| 1670 ~ 1690MHz (dB) | 6 | 23.9 | - |
| 1805 ~ 1880MHz (dB) | 6 | 24 | - |
| 1880 ~ 4500MHz (dB) | 15 | 25 | - |
| 4500 ~ 5000MHz (dB) | 10 | 14 | - |
| Input / Output VSWR (1710 ~ 1785MHz) | - | 1.8 | 2.5 |
| Source impedance Z _S (Ω) | - | 50 | - |
| Load impedance Z _L (Ω) | - | 50 | - |

Note: The standard definitions is in JIS C 6703

C. MEASUREMENT CIRCUIT:

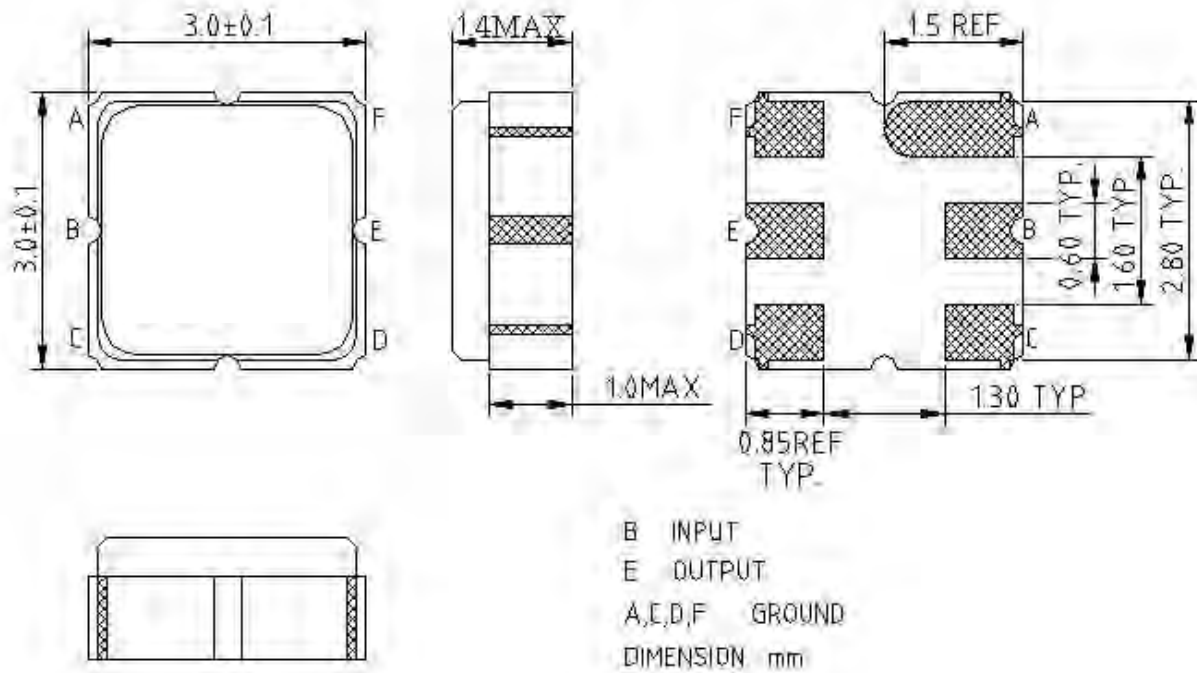
HP Network analyzer



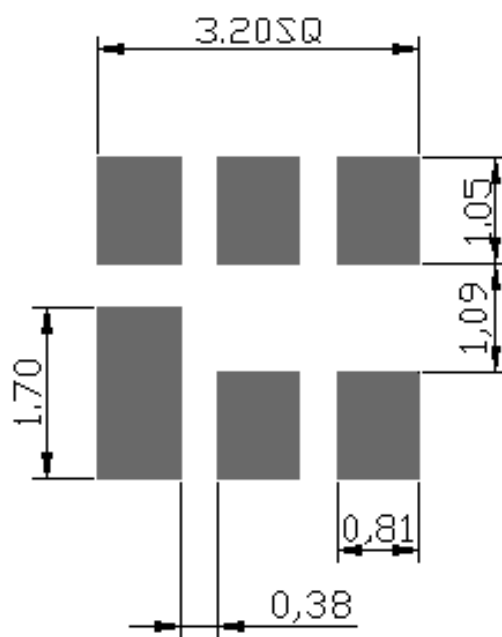
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D. OUTLINE DRAWING:



E. PCB FOOTPRINT:

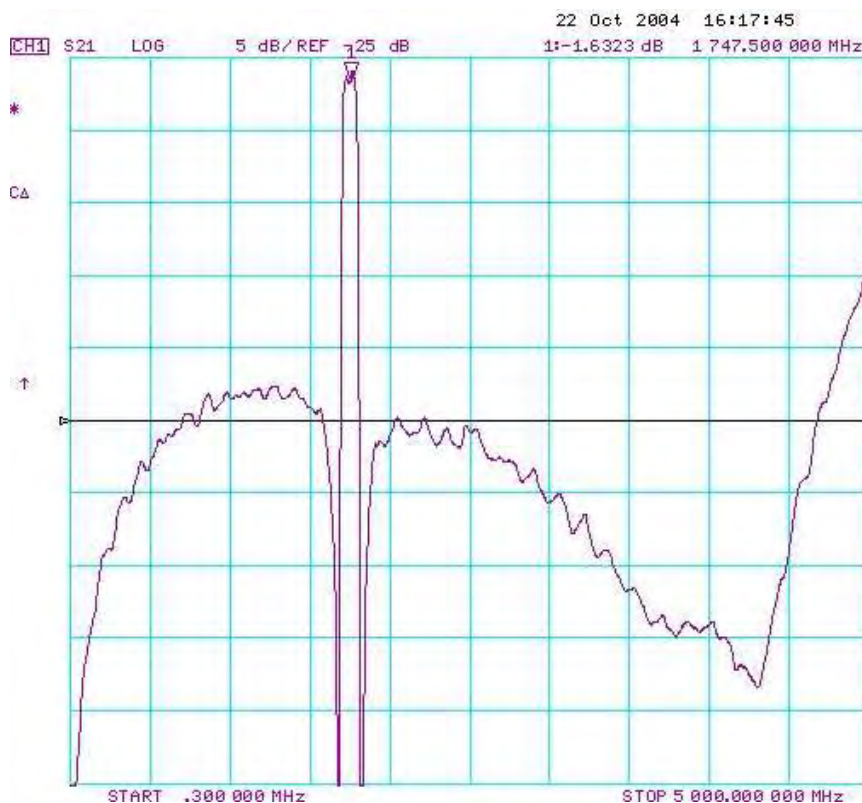
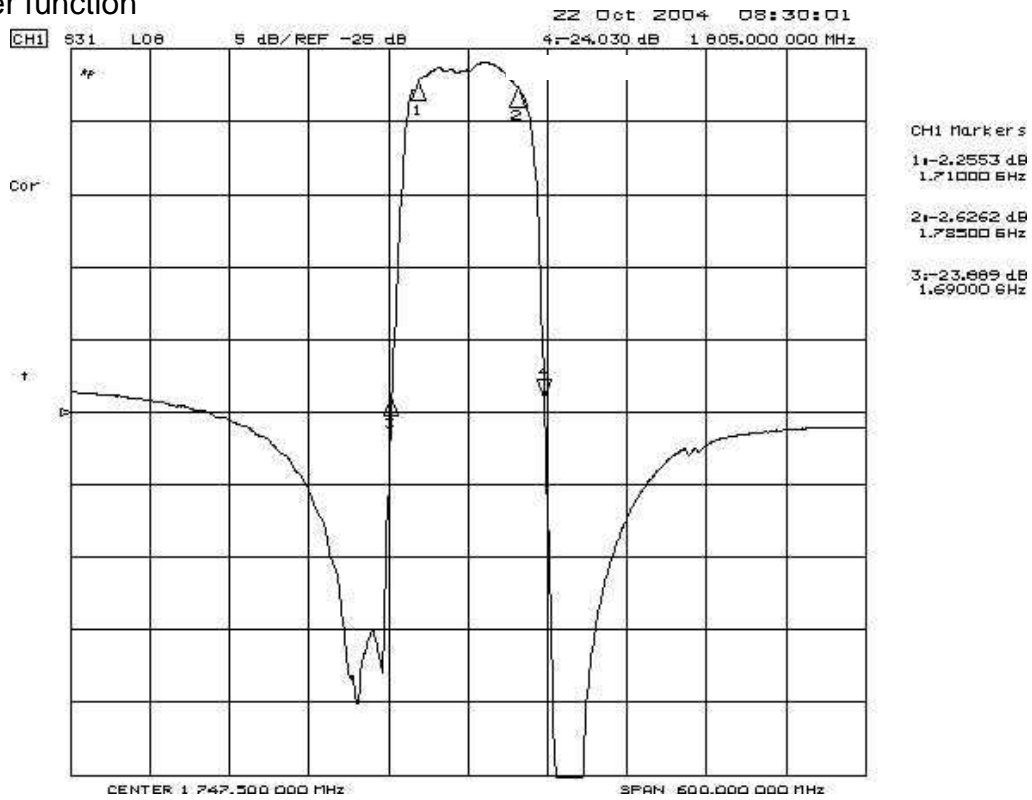


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F. FREQUENCY CHARACTERISTICS:

Transfer function

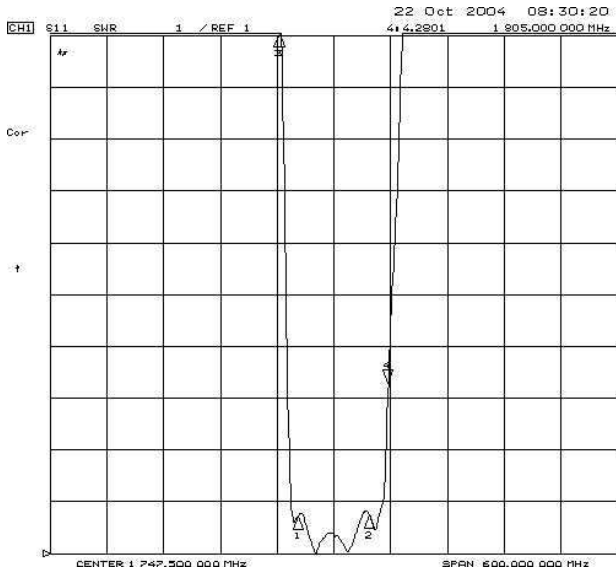


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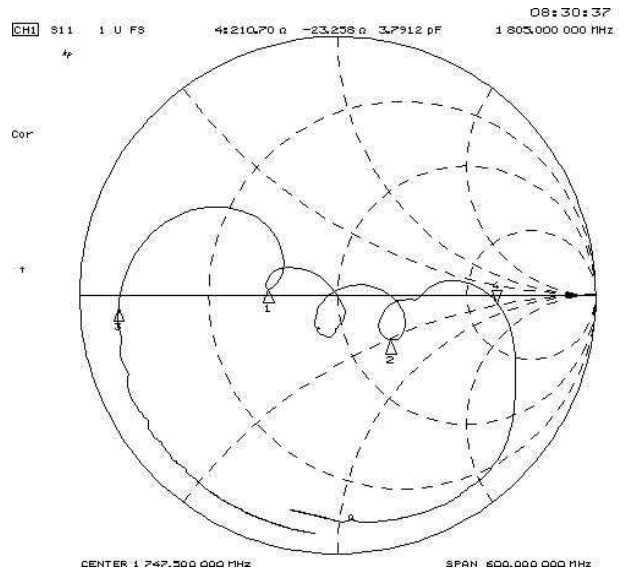
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Reflections Functions

S11

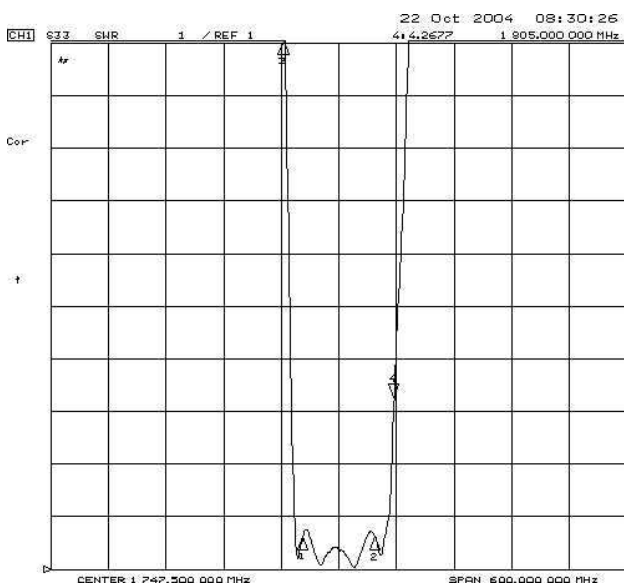


CH1 Markers
 1: 1.7314
 1.71000 GHz
 2: 1.7427
 1.79500 GHz
 3: 1.2317
 1.69000 GHz

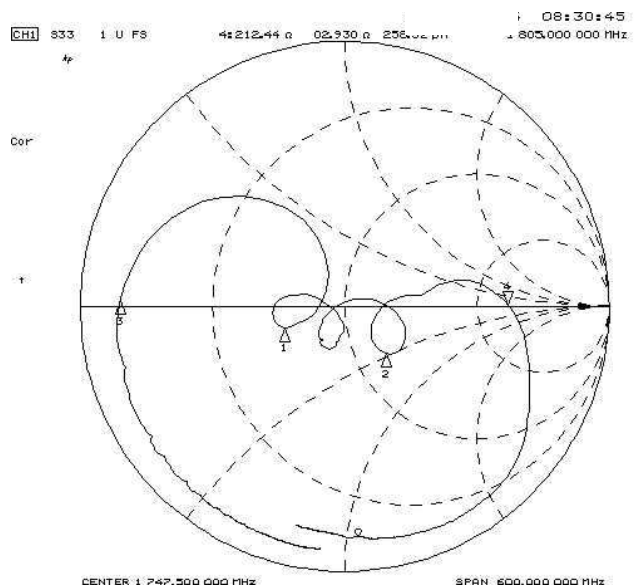


CH1 Markers
 1: 29.925 0
 1.5410 0
 1.71000 GHz
 2: 70.397 0
 -26.469 0
 1.79500 GHz
 3: 4.0552 0
 -1.3560 0
 1.69000 GHz

S22



CH1 Markers
 1: 1.6307
 1.71000 GHz
 2: 1.6255
 1.79500 GHz
 3: 12.279
 1.69000 GHz



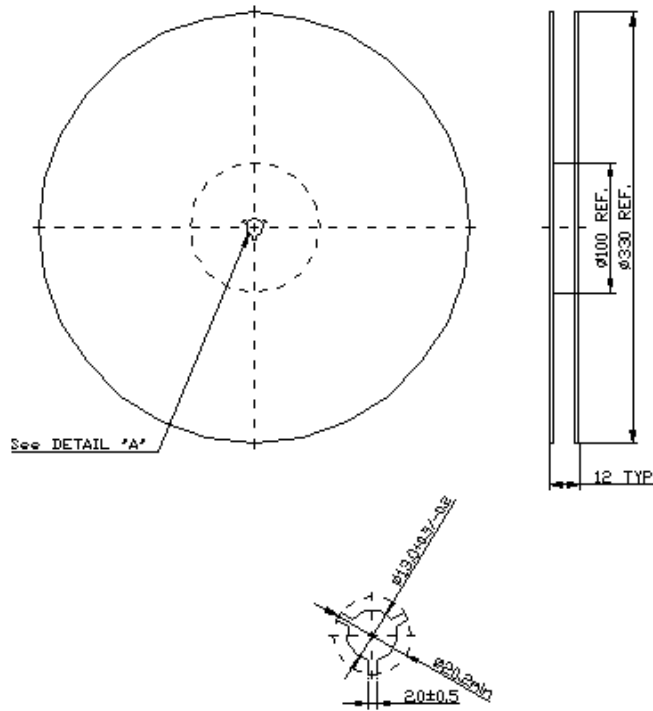
CH1 Markers
 1: 31.264 0
 -5.2490 0
 1.71000 GHz
 2: 63.759 0
 -24.029 0
 1.79500 GHz
 3: 4.0713 0
 679.93 m2
 1.69000 GHz

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G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

