

SAW Filter 319.30MHz
Part No: MP09589

Model: TA1731A
Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device

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

B. ELECTRICAL CHARACTERISTICS:

| Item | Unit | Min. | Typ. | Max. |
|--|--------|------|-------|------|
| Center Frequency Fc | MHz | - | 319.3 | - |
| Insertion Loss 318.3 ~ 320.3MHz IL | dB | - | 1.66 | 2.5 |
| Amplitude ripple 318.3 ~ 320.3MHz | dB | - | 0.26 | 1.5 |
| VSWR (318.3 ~ 320.3MHz) | | - | 1.24 | 2.5 |
| Attenuation (Reference level from 0dB) | | | | |
| 274.300 ~ 290.300MHz | dB | 50 | 62 | - |
| 297.300 ~ 298.200MHz | dB | 50 | 72 | - |
| 308.300 ~ 308.900MHz | dB | 46 | 61 | - |
| 329.700 ~ 330.300MHz | dB | 22 | 32 | - |
| 340.400 ~ 341.300MHz | dB | 36 | 47 | - |
| 361.800 ~ 363.000MHz | dB | 48 | 60 | - |
| Temperature Coefficient of Frequency | ppm/°C | - | -36 | - |

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C. FREQUENCY CHARACTERISTICS:

1. Pass band Response:

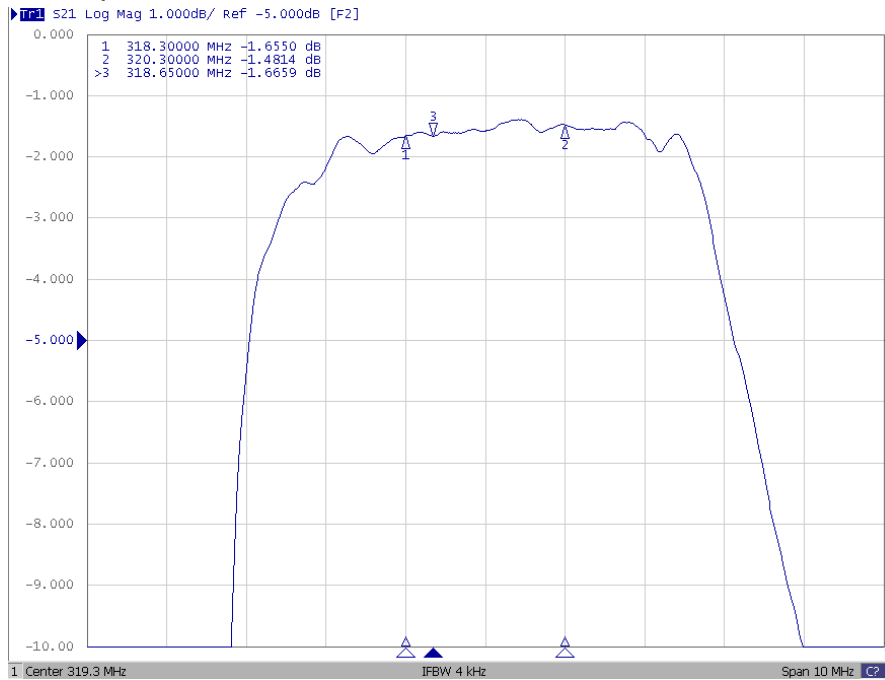


Fig. 1. Horizontal: 1MHz / Div, Vertical: 1Db / Div

2. Wide band Response:

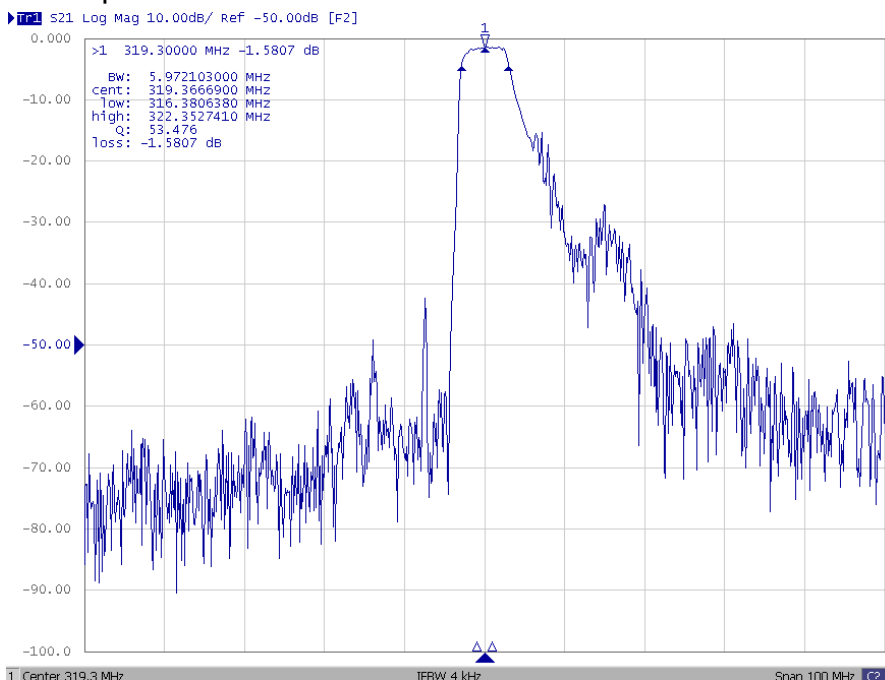


Fig. 2. Horizontal: 10MHz / Div, Vertical: 10dB / Div

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3. VSWR:

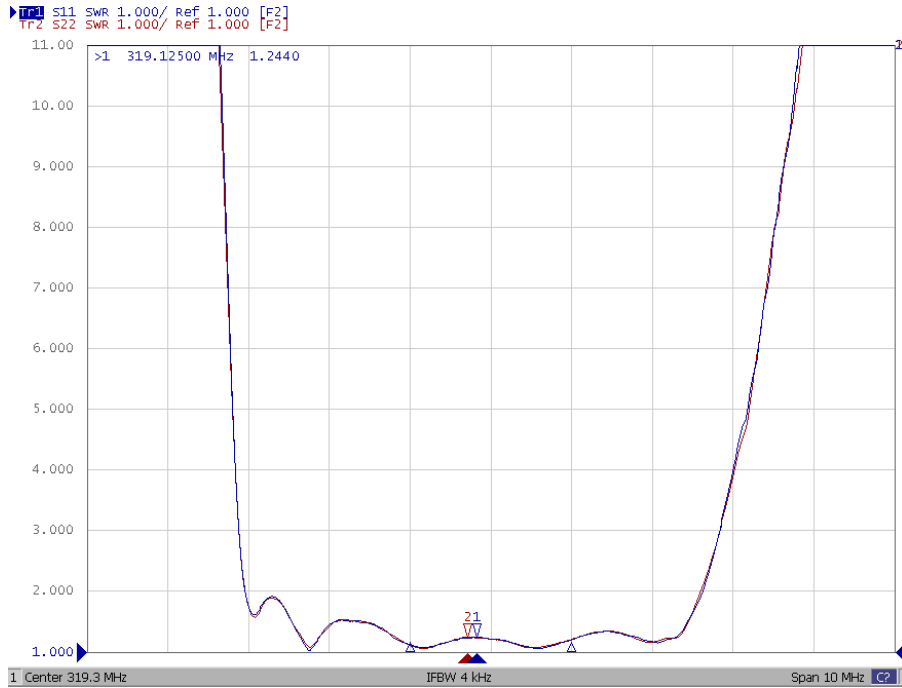


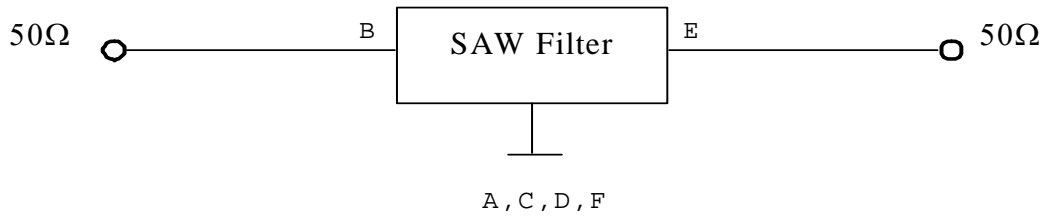
Fig. 3. Horizontal: 1MHz / Div, Vertical: 1 / Div

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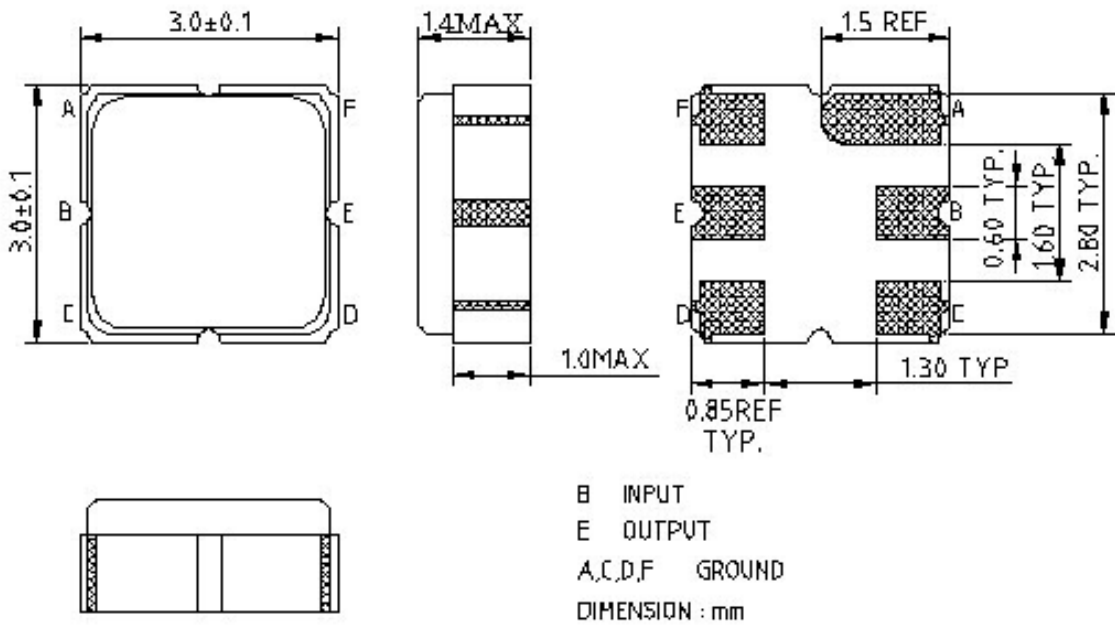
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D. MEASUREMENT CIRCUIT:

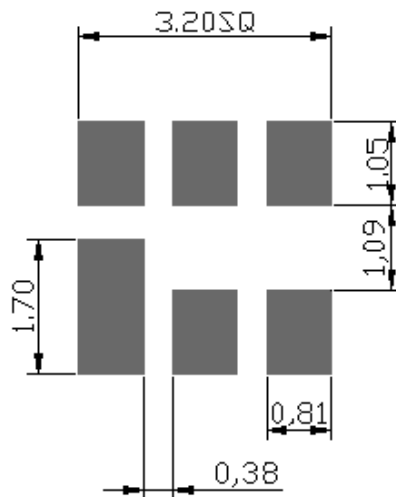
HP Network analyzer



E. OUTLINE DRAWING:



F. PCB FOOTPRINT:



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H. RECOMMENDED REFLOW PROFILE:

