

SAW Filter 916.450MHz
Part No: MA07630

Model: TA0344A
Rev No: 3

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 17dBm
2. DC voltage: 5V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 1 (MSL1)

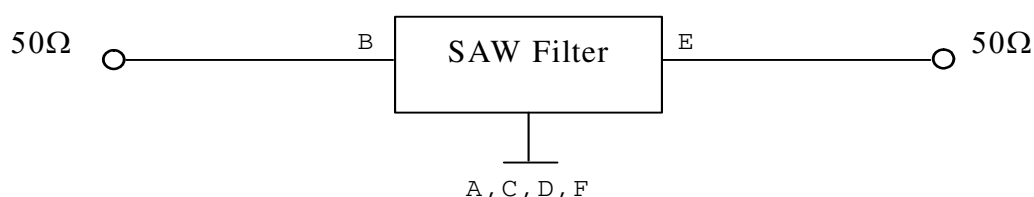
B. ELECTRICAL CHARACTERISTICS:

| Item | Unit | Min. | Typ. | Max. |
|--|------|------|--------|------|
| Center frequency Fc | MHz | - | 916.45 | - |
| Insertion loss (914.45 ~ 918.45MHz) IL | dB | - | 2.7 | 3.5 |
| Amplitude ripple (914.45 ~ 918.45MHz) | dB | - | 0.3 | 1.0 |
| VSWR (914.45 ~ 918.45MHz) | - | - | 1.5 | 2.0 |
| Absolute Attenuation | | | | |
| D.C. ~ 600MHz | dB | 50 | 57 | - |
| 600 ~ 840MHz | dB | 40 | 51 | - |
| 869 ~ 894MHz | dB | 35 | 46 | - |
| 970 ~ 1500MHz | dB | 40 | 47 | - |
| 1500 ~ 3000MHz | dB | 25 | 32 | - |
| Source impedance Z _S | Ω | - | 50 | - |
| Load impedance Z _L | Ω | - | 50 | - |

Note: No matching network required for operation at 50Ω.

C. MEASUREMENT CIRCUIT:

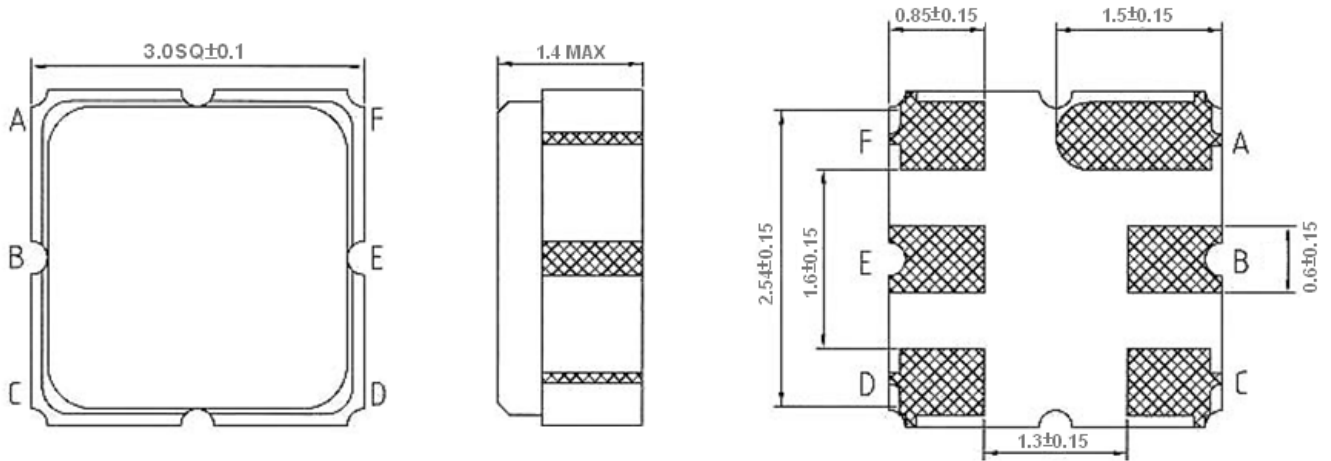
HP Network analyzer



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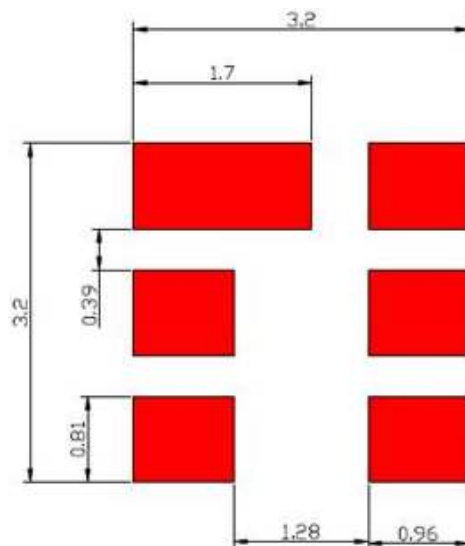
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D. OUTLINE DRAWING:



B: Input
E: Output
A, C, D, F: Ground
Unit: mm

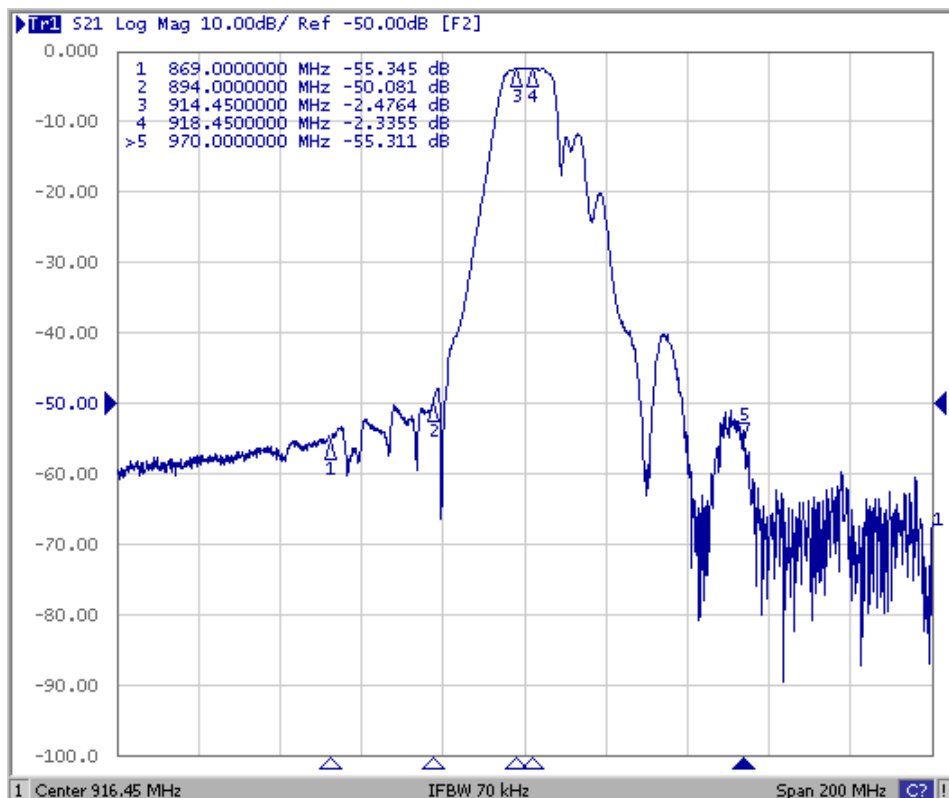
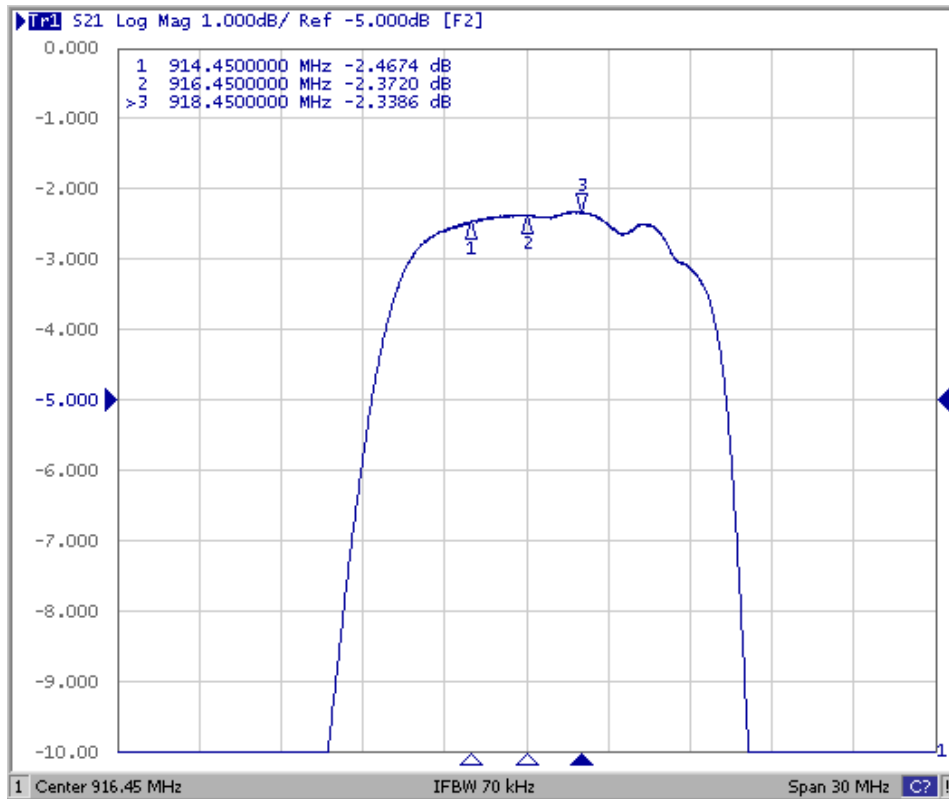
E. PCB FOOTPRINT:



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F. FREQUENCY CHARACTERISTICS:

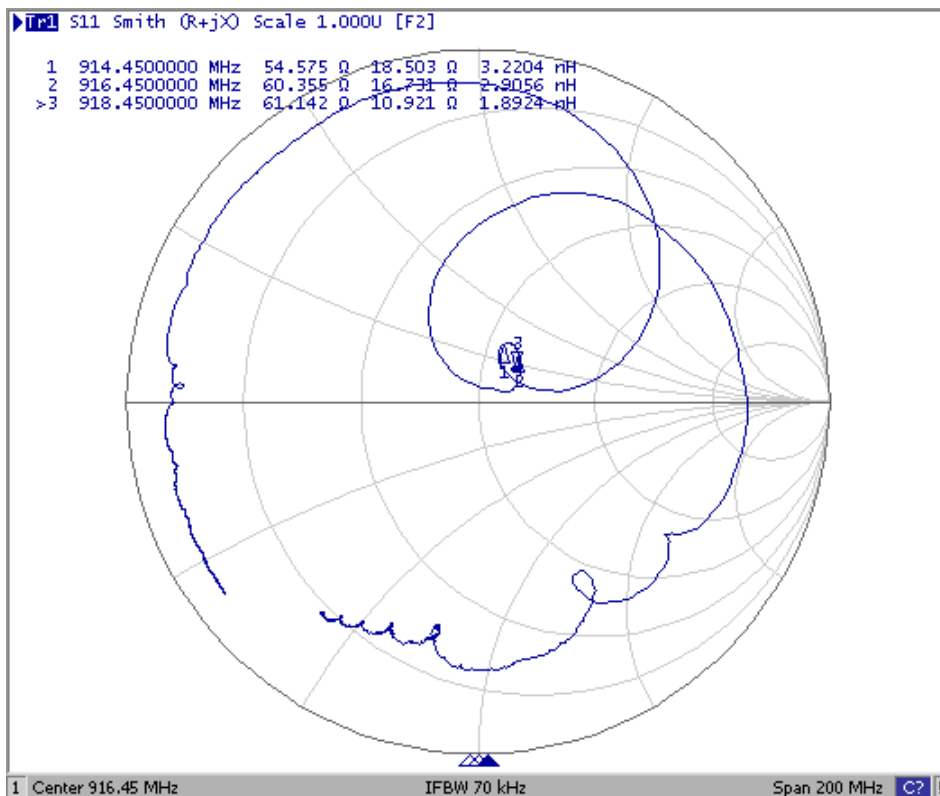
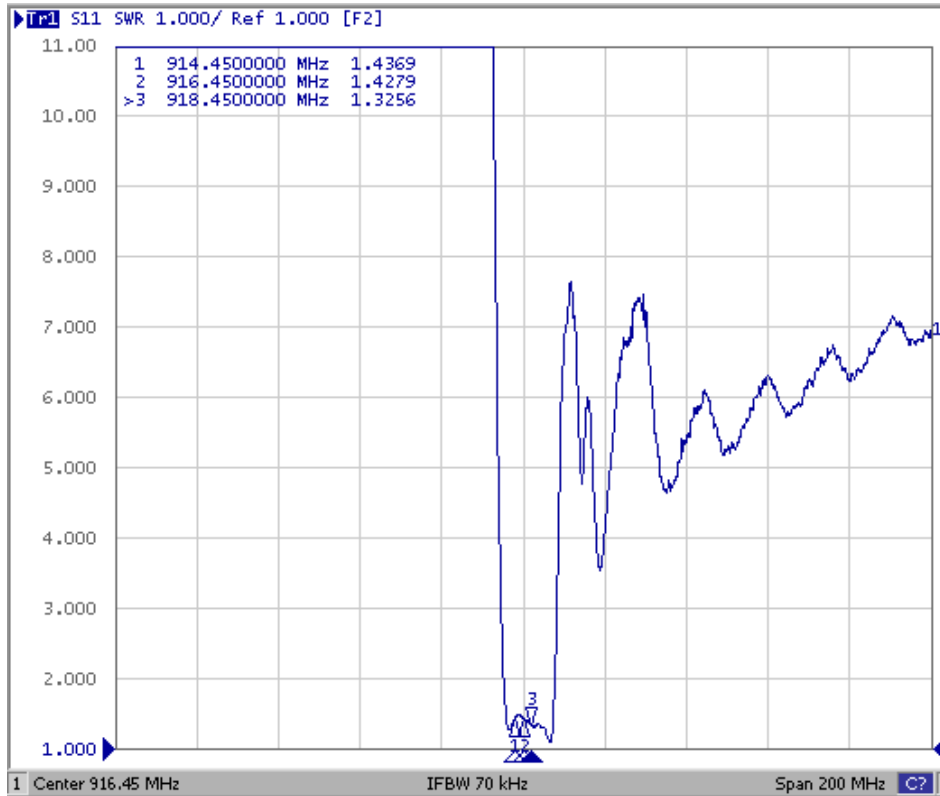


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Reflections Functions

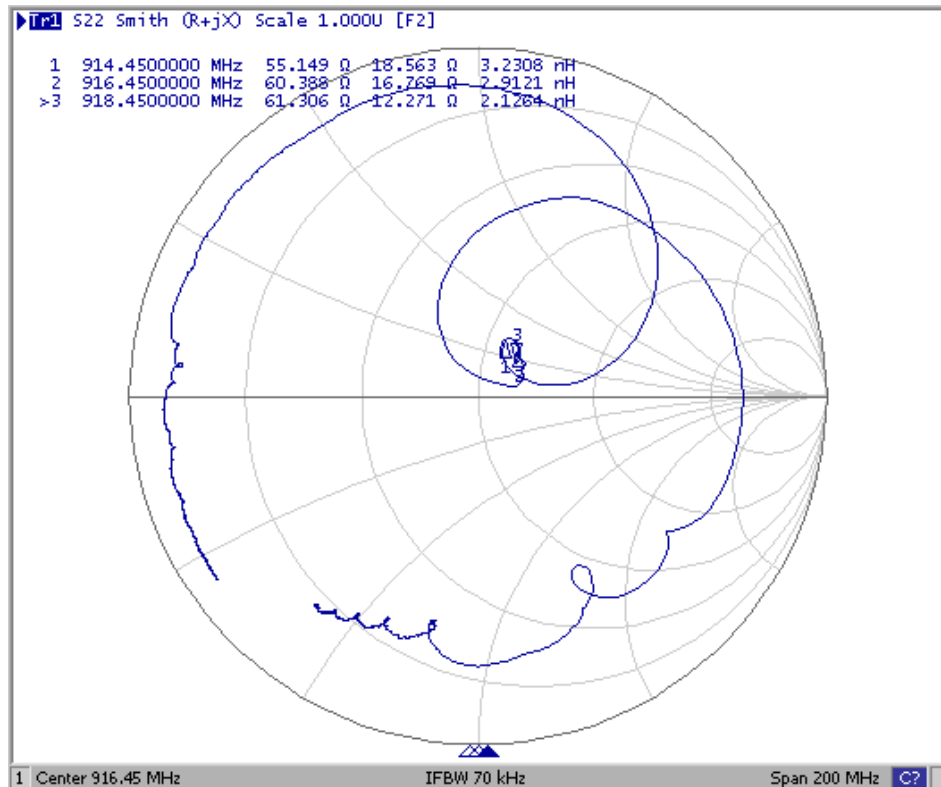
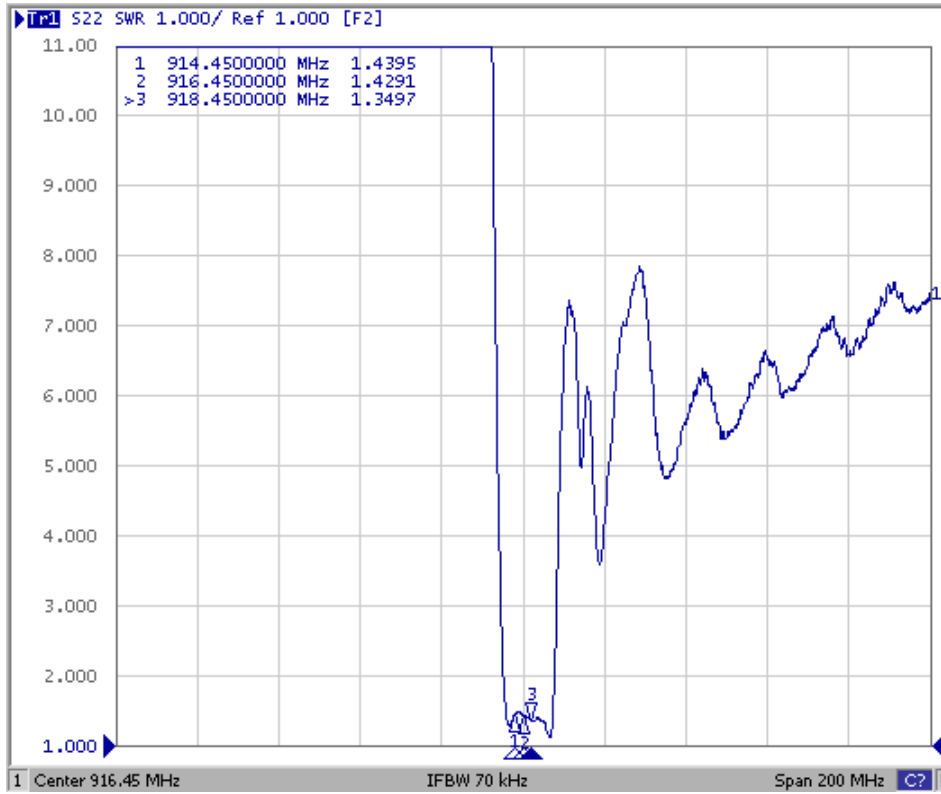
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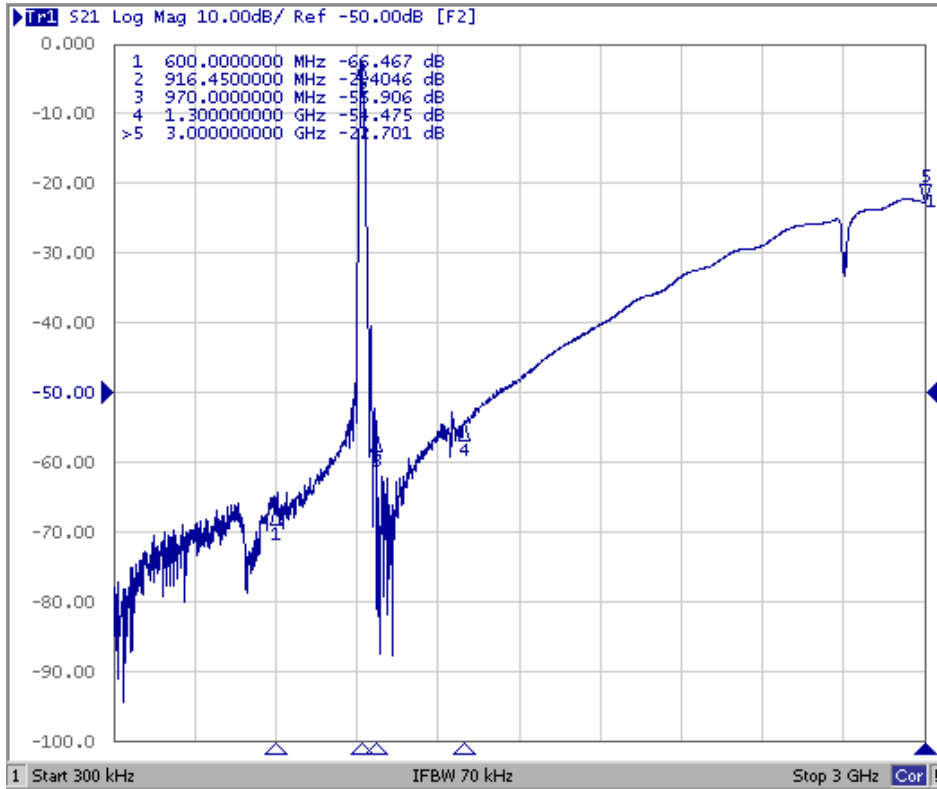
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Wideband



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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 260°C +0/-5°C peak (20 ~ 40 sec).
4. Time: 2 times.

