

SAW Filter 1583.0MHz
Part No: MP06771

Model: TA1661A
Rev No: 4

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 15dBm
2. DC Voltage: 0V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +105°C
5. Moisture Sensitivity Level: Level 2a (MSL2a)
6. ESD 100V (MM) 250V(HBM) 1000V (CDM)

B. ELECTRICAL CHARACTERISTICS:

1. Terminating source impedance (single): $Z_S = 50\Omega$
2. Terminating load impedance (single): $Z_L = 50\Omega$

| Item | Unit | 25±2°C | Typ. | -40~+85°C |
|--|------|--------|------|-----------|
| Center Frequency Fc | MHz | - | 1583 | - |
| Insertion Loss (1559.1~1563.1MHz) IL | dB | 1.9max | 1.8 | 2.1max |
| Insertion Loss (1573.42~1577.42MHz) IL | dB | 1.5max | 1.4 | 1.6max |
| Insertion Loss (1597.55~1605.89MHz) IL | dB | 1.8max | 1.7 | 2.1max |
| VSWR (1559.1~1563.1MHz) | | 1.5max | 1.4 | 1.8max |
| VSWR (1573.42~1577.42MHz) | | 1.7max | 1.6 | 2.0max |
| VSWR (1597.55~1605.89MHz) | | 1.7max | 1.6 | 1.9max |
| Amplitude ripple | | | | |
| 1559.1~1563.1MHz | dB | 0.6max | 0.5 | 0.8max |
| 1573.42~1577.42MHz | dB | 0.3max | 0.2 | 0.5max |
| 1597.55~1605.89MHz | dB | 0.5max | 0.3 | 0.6max |
| Attenuation | | | | |
| 100 ~ 824MHz | dB | 44min | 46 | 40min |
| 824 ~ 925MHz | dB | 44min | 46 | 40min |
| 1427 ~ 1463MHz | dB | 43min | 45 | 40min |
| 1710 ~ 1785MHz | dB | 38min | 40 | 36min |
| 1850 ~ 1980MHz | dB | 38min | 40 | 36min |
| 2400 ~ 2570MHz | dB | 38min | 40 | 36min |
| 2570 ~ 3000MHz | dB | 35min | 40 | 33min |
| Package size | mm | 1411 | | |

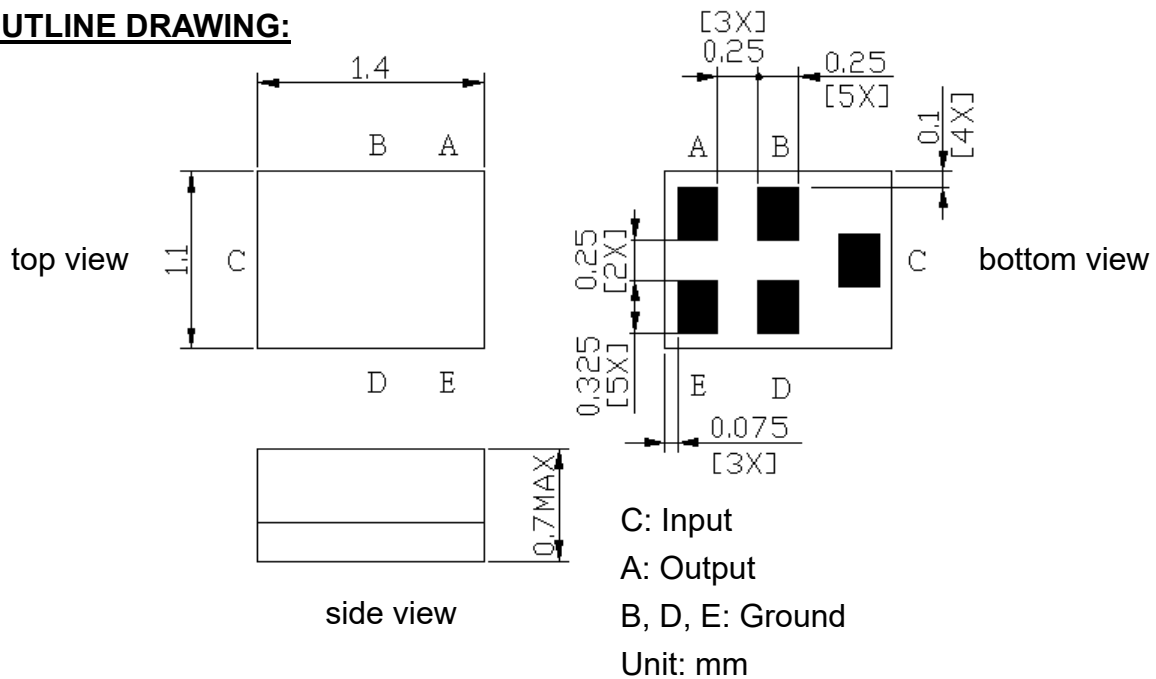
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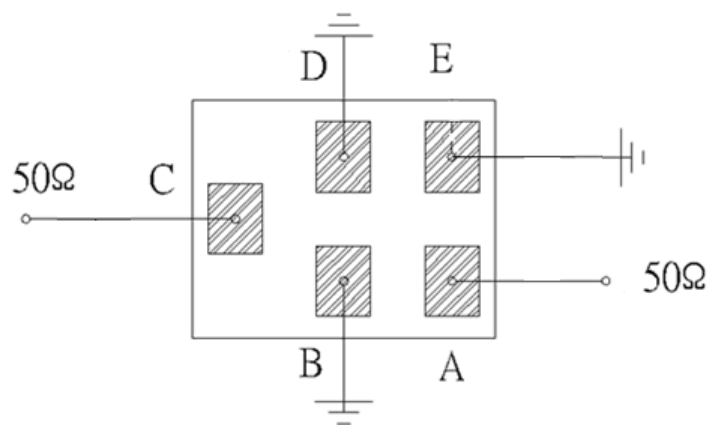
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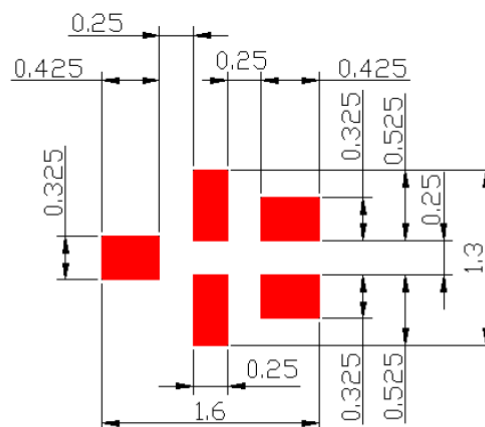
C. OUTLINE DRAWING:



D. MEASUREMENT CIRCUIT:



E. PCB FOOTPRINT:



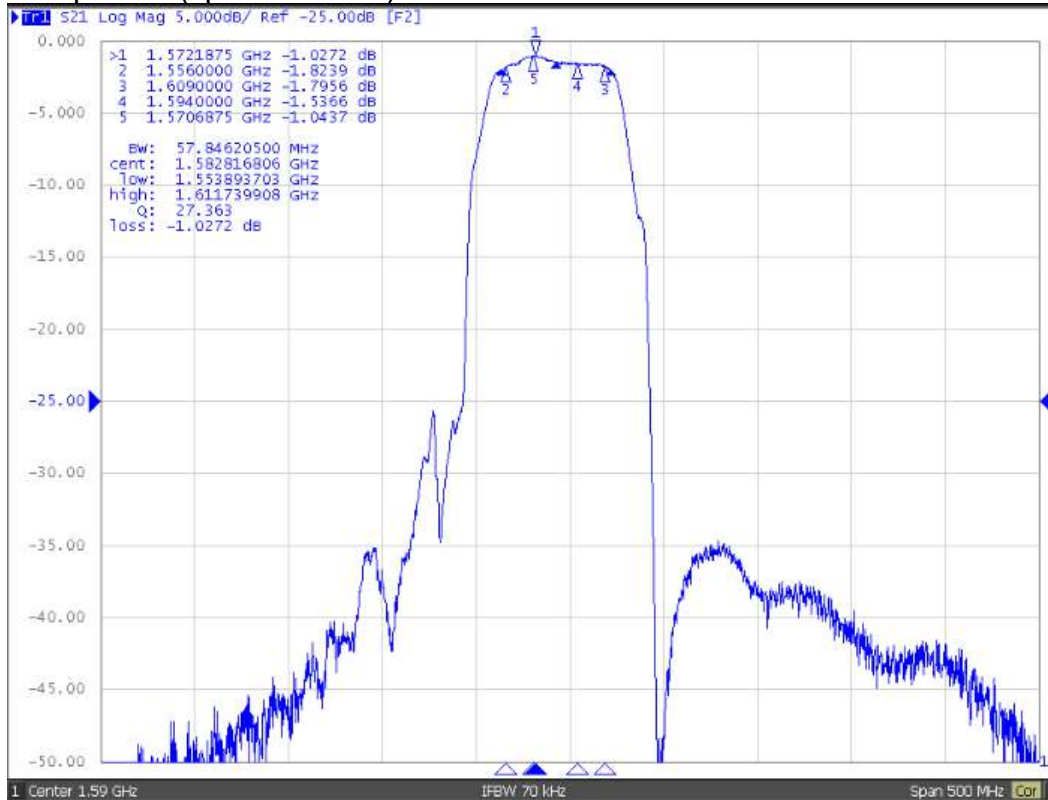
: Land Pattern

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F. FREQUENCY CHARACTERISTICS:

1. S21 response: (span 500MHz)



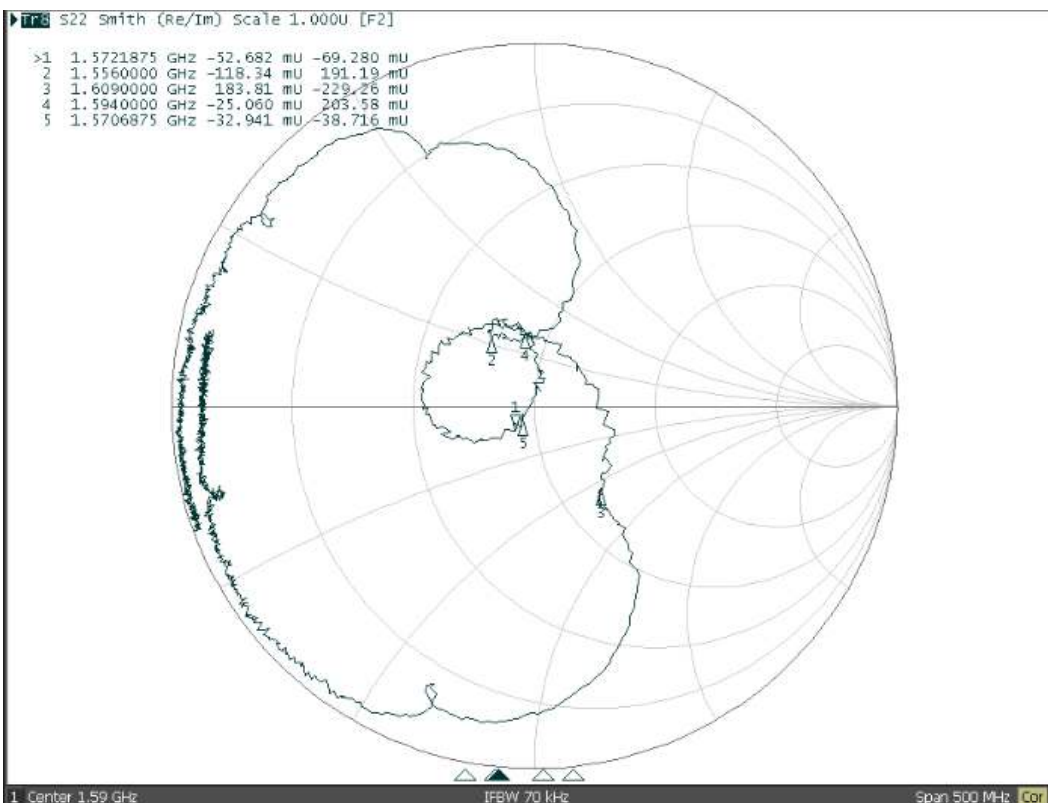
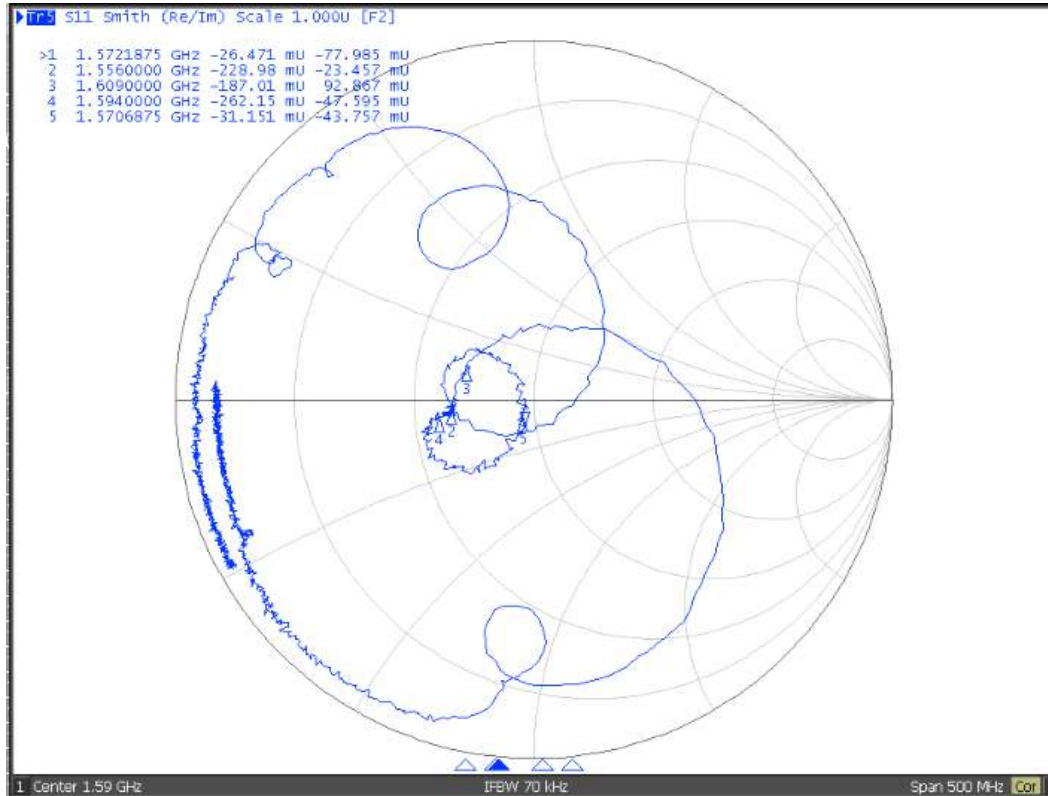
2. S21 response: (span 100MHz)



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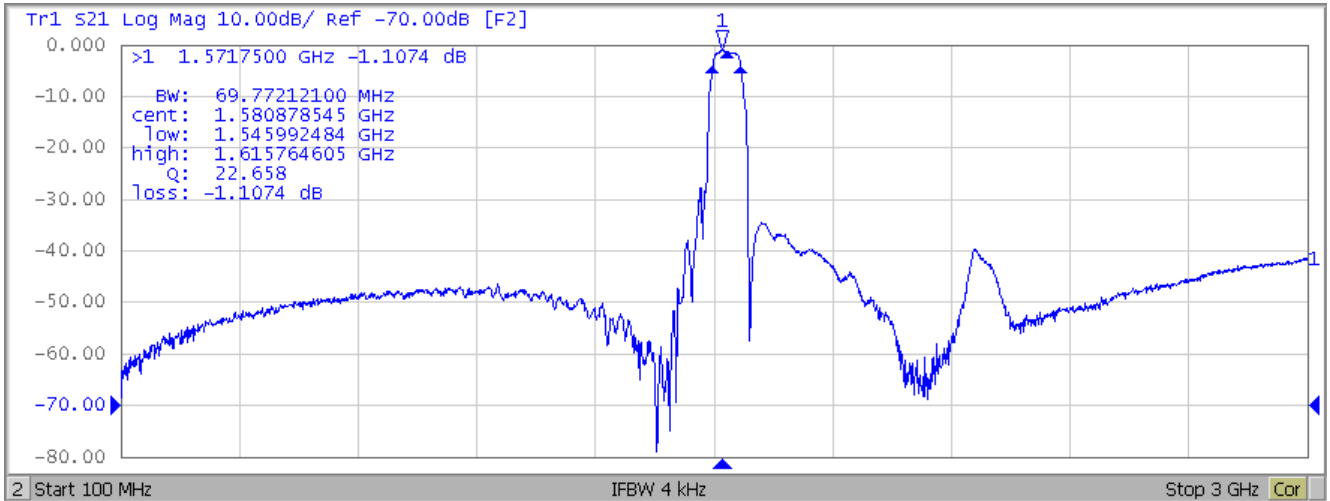
3. S11/S22 response:



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4. S21 response: (span 3GHz)

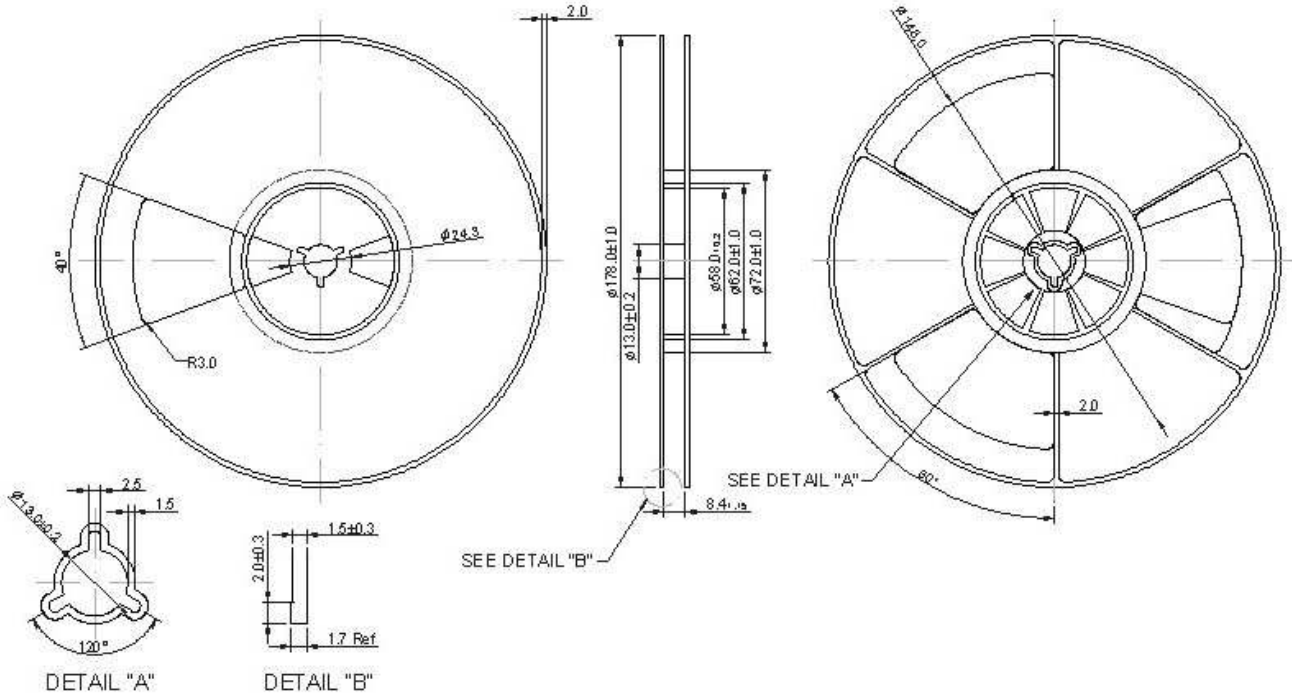


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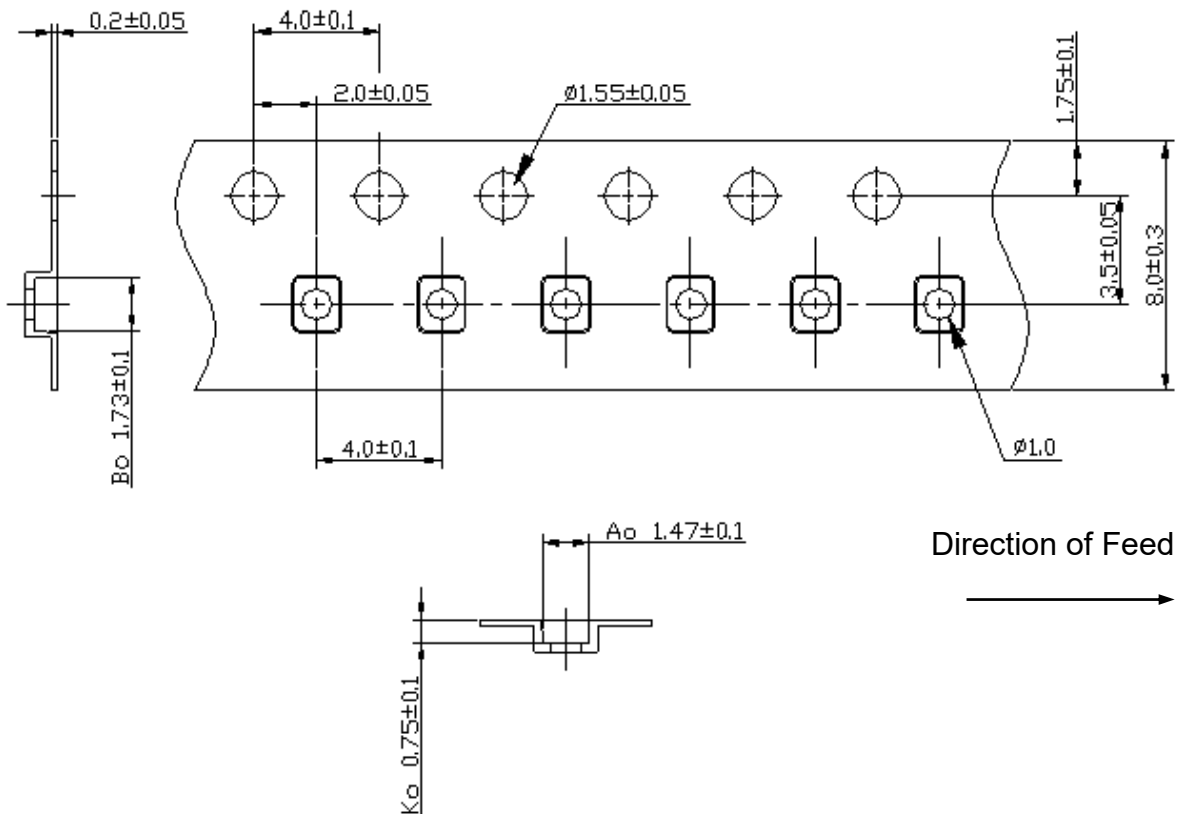
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G. PACKING:

1. Reel Dimensions



2. Tape Dimensions



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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.

