

SAW Filter 806 MHz (BW 30Hz) SMD 1.1x0.9x0.5mm

MODEL NO.:TA2703AA1221A

REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -20°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 3(MSL3)

RoHS Compliant
Lead-free soldering

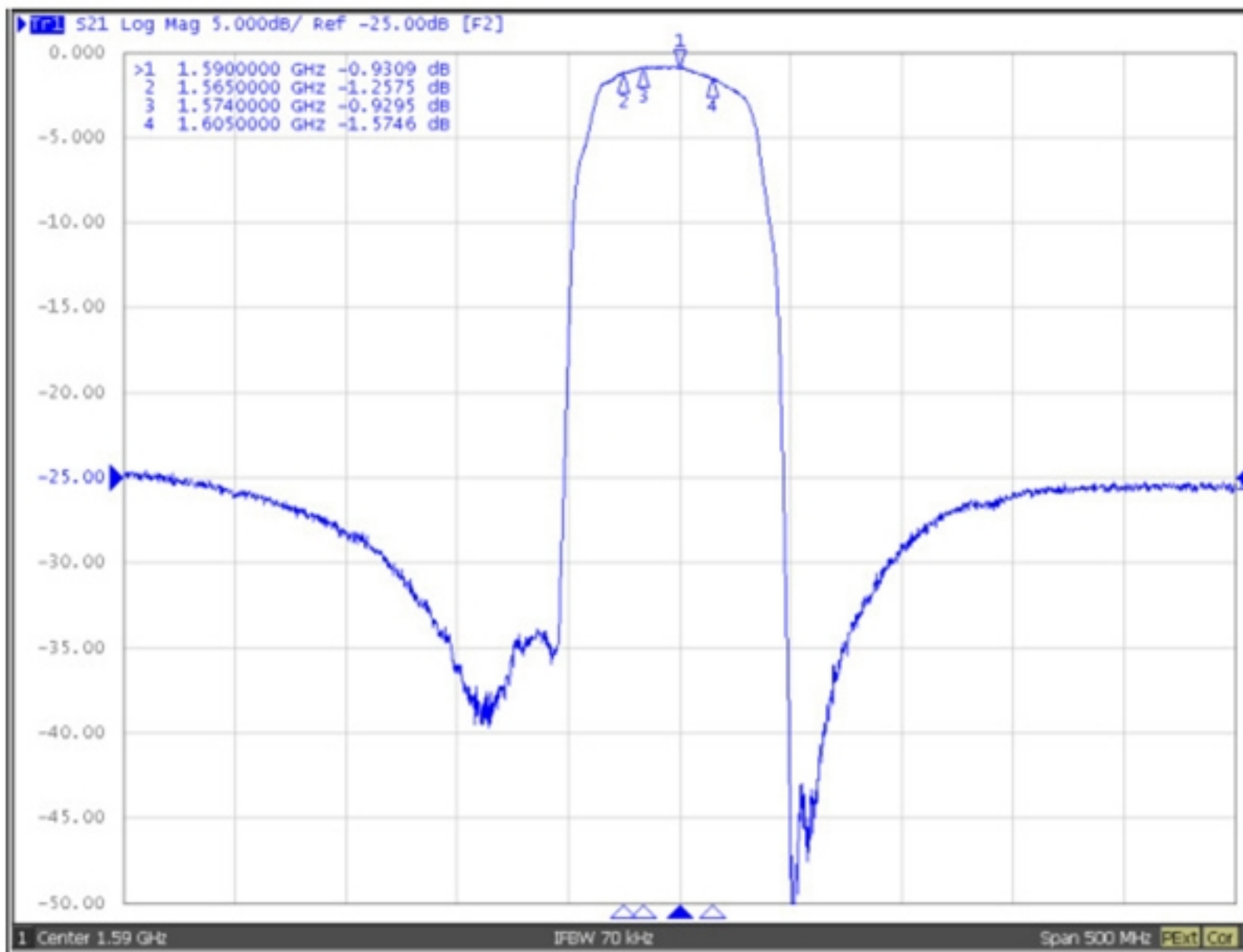
Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

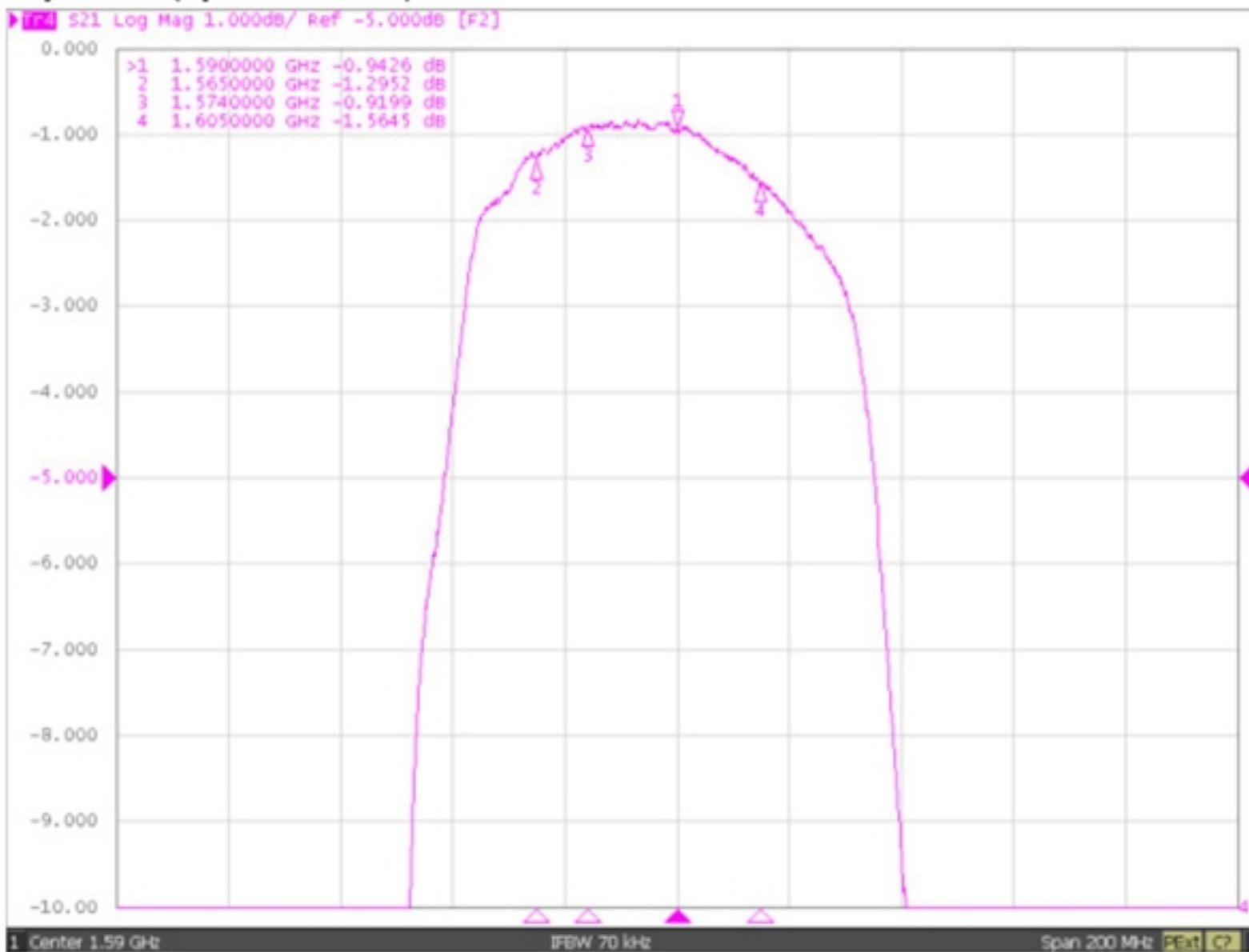
| Item | Unit | Min. | Type. | Max. | Note |
|--|--------|-------------|-------|------|------|
| Center Frequency Fc | MHz | - | 806 | - | - |
| Insertion Loss (791~821MHz) | dB | - | 2.1 | | - |
| VSWR (791~821MHz) | | - | 2.1 | 2.4 | |
| VSWR (1597.55~1605.89 MHz) | | - | 1.7 | 2 | |
| Amplitude ripple (1565.42~1605.89MHz) | dB | - | 0.6 | 1.0 | - |
| Attenuation | | | | | - |
| 10 ~ 960 MHz | dB | 20 | 23 | - | |
| 1427 ~ 1453 MHz | dB | 25 | 28 | - | - |
| 1453 ~ 1501 MHz | dB | 25 | 28 | - | - |
| 1501 ~ 1525 MHz | dB | 30 | 35 | - | - |
| 1626 ~ 1660 MHz | dB | 4 | 8 | - | |
| 1710 ~ 1785 MHz | dB | 23 | 26 | - | - |
| 1850 ~ 1910 MHz | dB | 23 | 26 | - | - |
| 1920 ~ 1980 MHz | dB | 23 | 26 | - | - |
| 2110 ~ 2170 MHz | dB | 24 | 27 | - | - |
| 2400 ~ 2500 MHz | dB | 25 | 28 | - | - |
| 2500 ~ 2570 MHz | dB | 26 | 30 | - | - |
| Temperature coefficient | ppm/°C | -36 | | | |
| Package size | mm | SMD 1.1x0.9 | | | |

C.FREQUENCY CHARACTERISTICS:

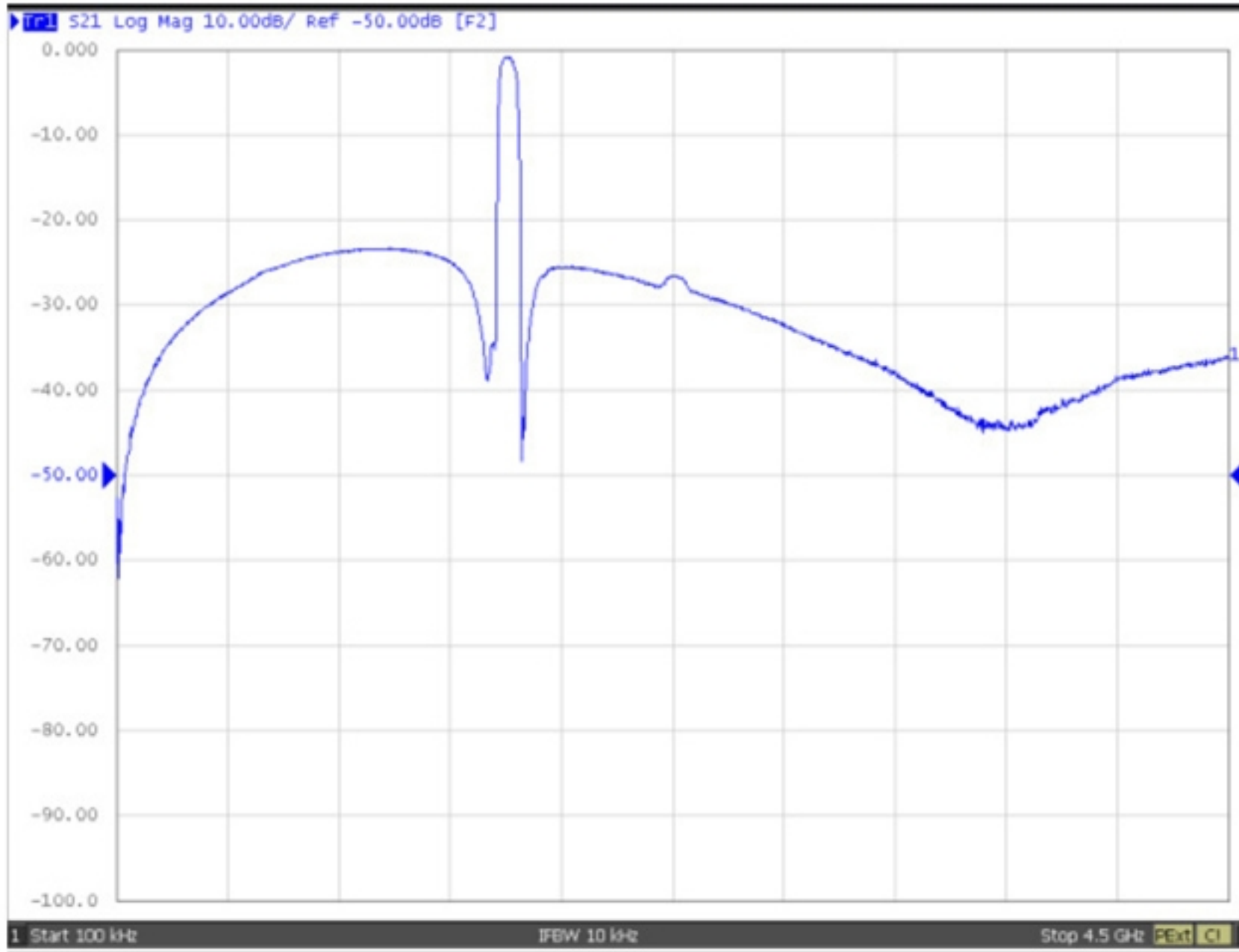
S21 response: (span 500MHz)



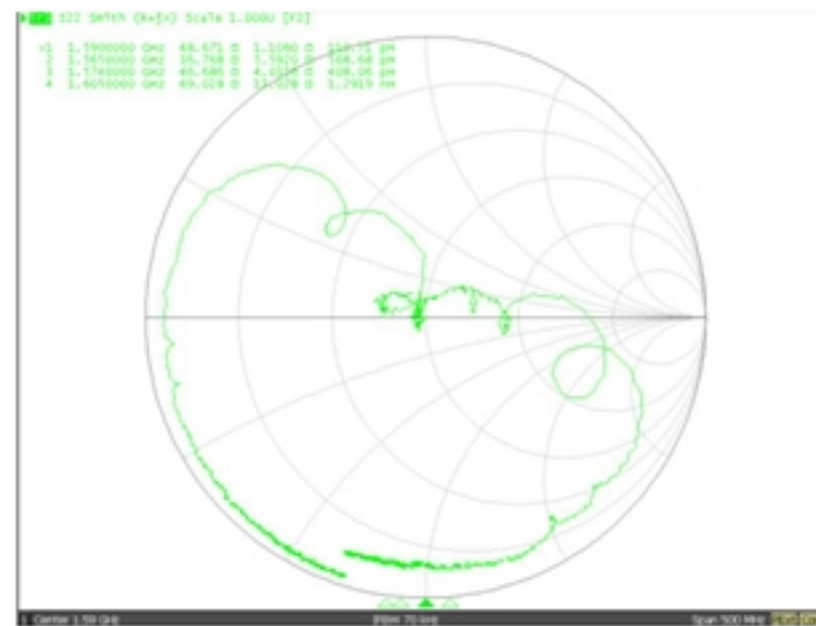
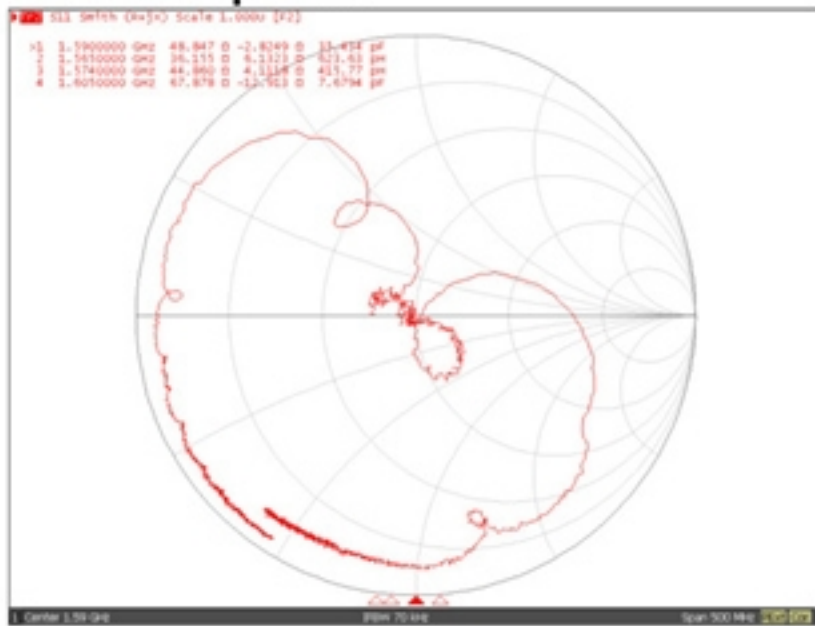
S21 response: (span 200MHz)



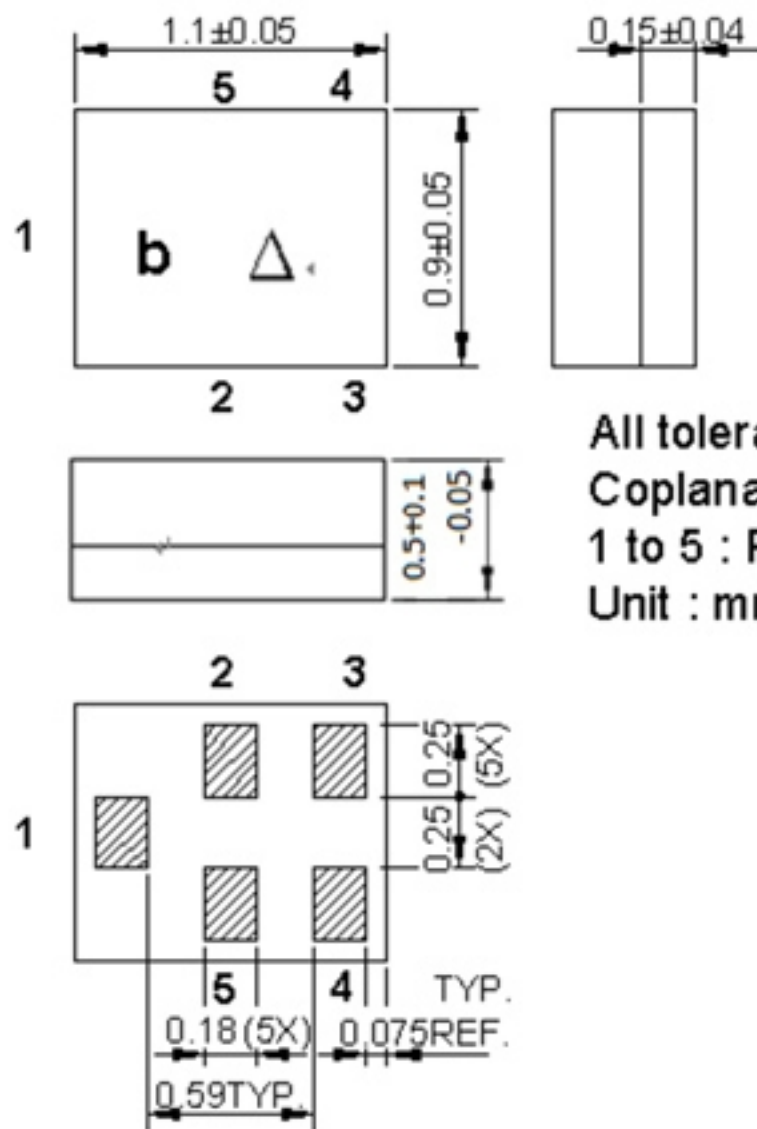
S21 response: (span 4.5GHz)



S11/S22 response:



D. OUTLINE DRAWING:



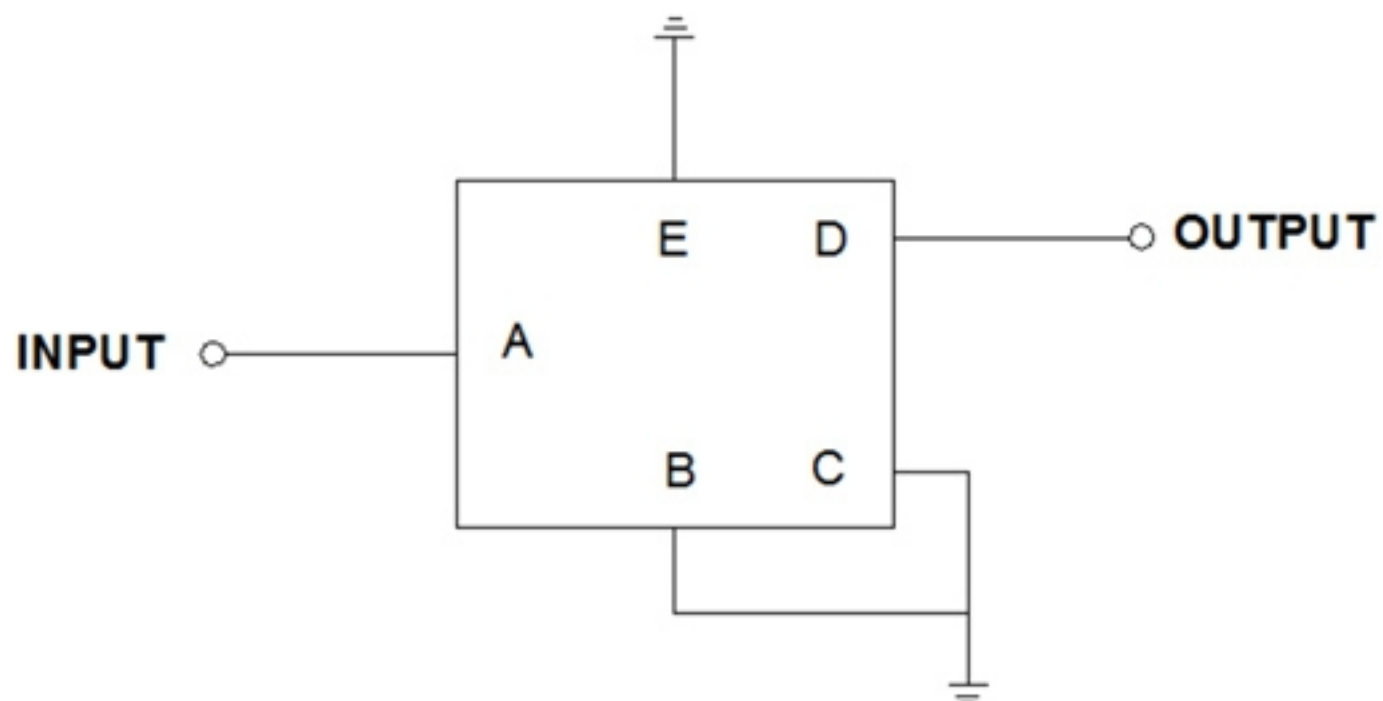
All tolerances are ± 0.05 mm unless otherwise specified

Coplanarity : 0.1 mm max.

1 to 5 : Pin No.

Unit : mm

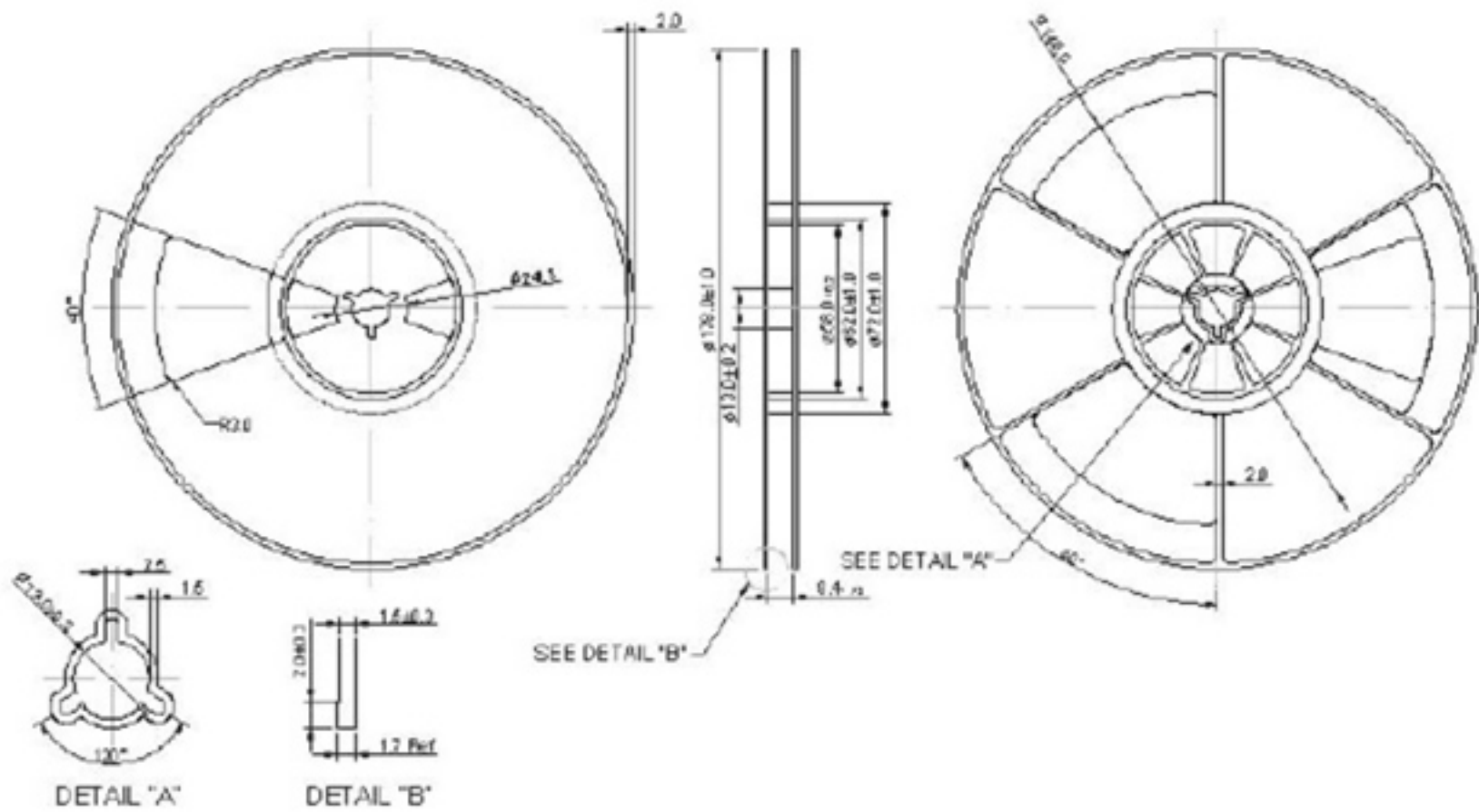
E. MEASUREMENT CIRCUIT:



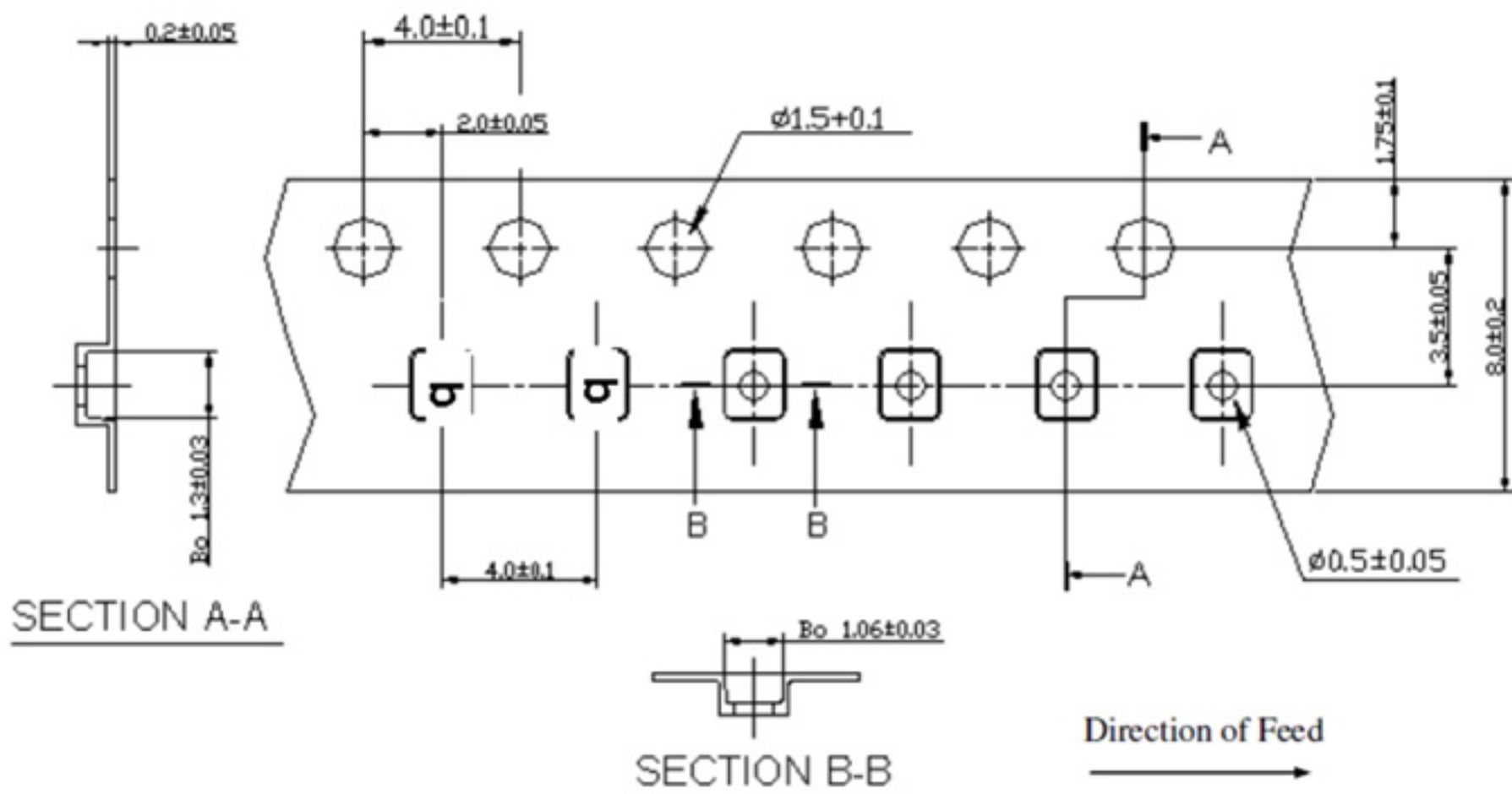
F. PACKING:

1. REEL DIMENSION

(Please refer to FR-75D10 for packing quantity)



2. TAPE DIMENSION



G. RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at $150\sim 180^{\circ}\text{C}$ for $60\sim 90$ seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for $50\sim 80$ seconds and at $260^{\circ}\text{C} +0/-5^{\circ}\text{C}$ peak ($20\sim 40\text{sec}$).
4. Time: 2 times.

