



GNSS/LTE BODY MOUNT ANTENNA

MAIN FEATURES:

- Low profile and small size
- IP66 protection
- Ground plane preferred
- RoHS Compliant



Main electrical parameters

LTE section

| MHz | 700-750 | 824-960 | 1710-2170 | 2500-2700 |
|----------------------------|---------|---------|-----------|-----------|
| Gain (dBi) | 0.5 | 0.8 | 7 | -1.1 |
| Total isotropic Gain (dBi) | -3.7 | -4.2 | -1.6 | -2.8 |
| S11 (dB) | <-12 | <-10 | <-12 | <-8 |
| Polarization | Linear | Linear | Linear | Linear |

GNSS section (antenna, lna and filter)

| Band (MHz) | 1575.42±1.023 | 1598-1605 |
|-------------------------|---------------|-----------|
| Antenna Gain (dBic) | 1.9 | 1.8 |
| Antenna Bandwidth (MHz) | >8 | >8 |
| S11 (dB) | <-10 | <-12 |
| Polarization | RHCP | RHCP |

| Band (MHz) | 1575.42±1.023 | 1598-1605 |
|---------------------------|---------------------|-----------|
| LNA Frequency range (MHz) | 1570-1610 | |
| LNA DC supply voltage (V) | 3.3 (typical) | |
| LNA Current sink (mA) | 9.5 | |
| LNA Noise Figure (dB) | 1.0 (typical @21°C) | |
| LNA Gain (dB) | 28±2 | 26±2 |
| Coupling @1710 MHz (dB) | <-20 | <-20 |

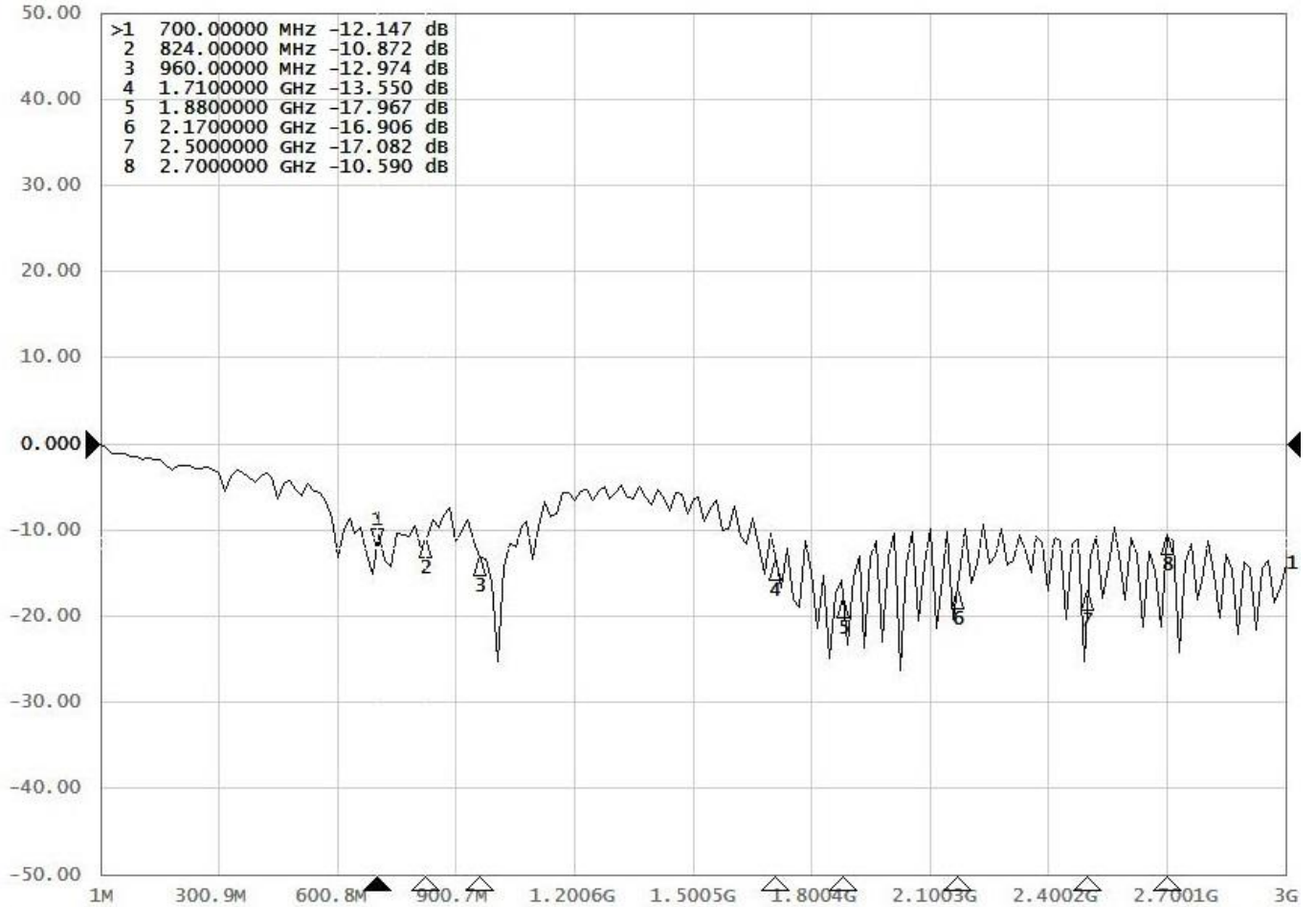
Other Parameters

| | |
|-----------------------|-----------|
| Dimensions | 80x25 mm |
| Operating Temperature | -40/85 °C |
| Cable type | RG174 |
| Connector | Custom |
| Cable length | Custom |

LTE SECTION DIAGRAMS

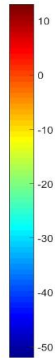
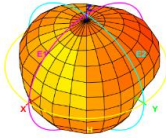
S11

Tr1 S11 Log Mag 10.00dB/ Ref 0.000dB [R0]



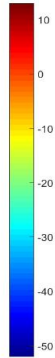
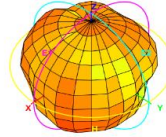
Radiation patterns

Total_3D_Side View 1_700MHz



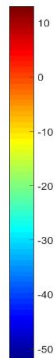
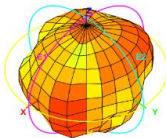
700 MHz

Total_3D_Side View 1_824MHz



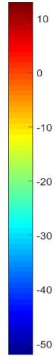
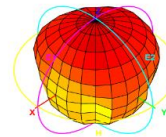
824 MHz

Total_3D_Side View 1_960MHz



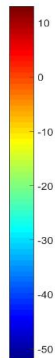
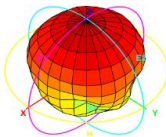
960 MHz

Total_3D_Side View 1_1.71GHz



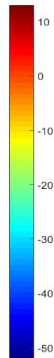
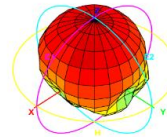
1710 MHz

Total_3D_Side View 1_1.88GHz



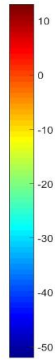
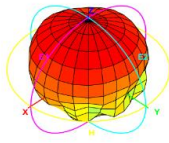
1880 MHz

Total_3D_Side View 1_2.17GHz

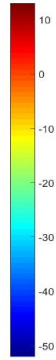
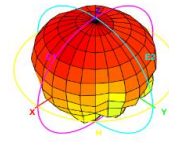


2170 MHz

Total_3D_Side View 1_2.5GHz



Total_3D_Side View 1_2.7GHz



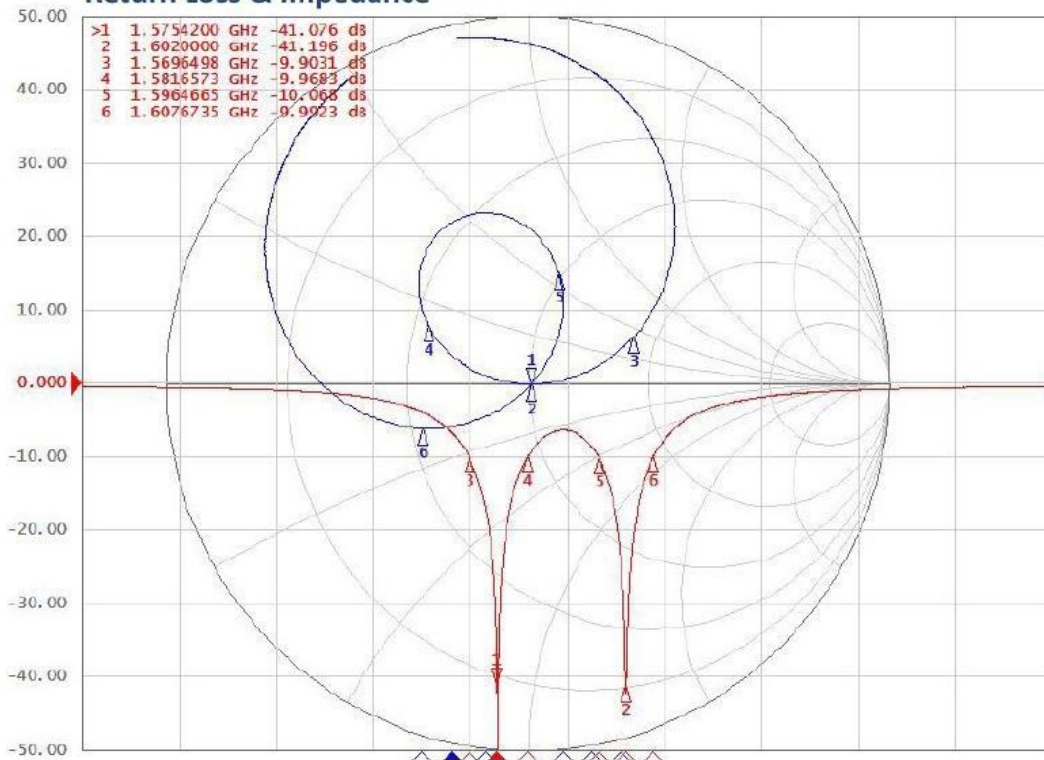
2500 MHz

2700 MHz

GNSS SECTION DIAGRAMS

S11

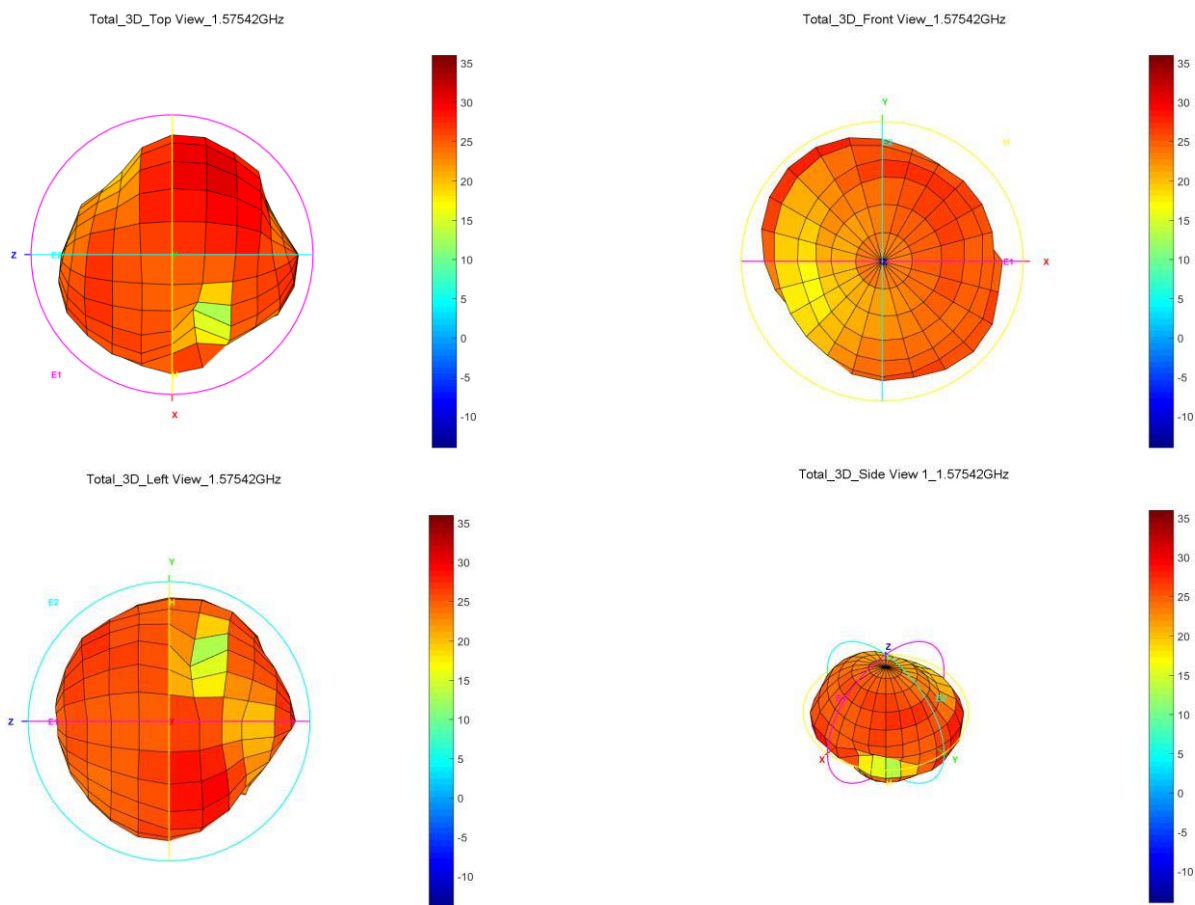
Return Loss & Impedance



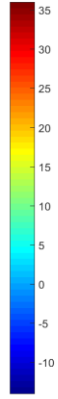
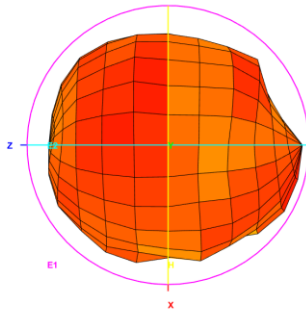
LNA transmission coefficient (@3.3 V)



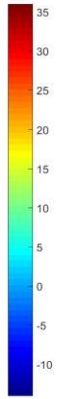
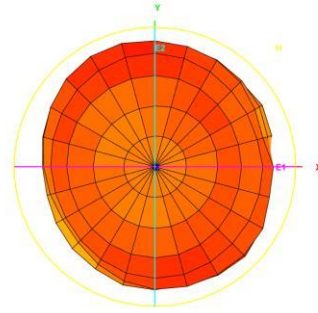
3D pattern



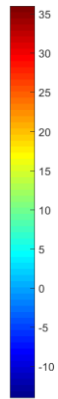
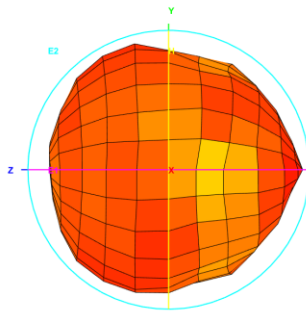
Total_3D_Top View_1.602GHz



Total_3D_Front View_1.602GHz



Total_3D_Left View_1.602GHz



Total_3D_Side View 1_1.602GHz

