



**GNSS ACTIVE MICROSTRIP ANTENNA BAND L1
(GPS, GLONASS, GALILEO, BEIDOU)**

MAIN FEATURES:

- one stage LNA with filter
- RoHS Compliant
- Small footprint
- L1 band



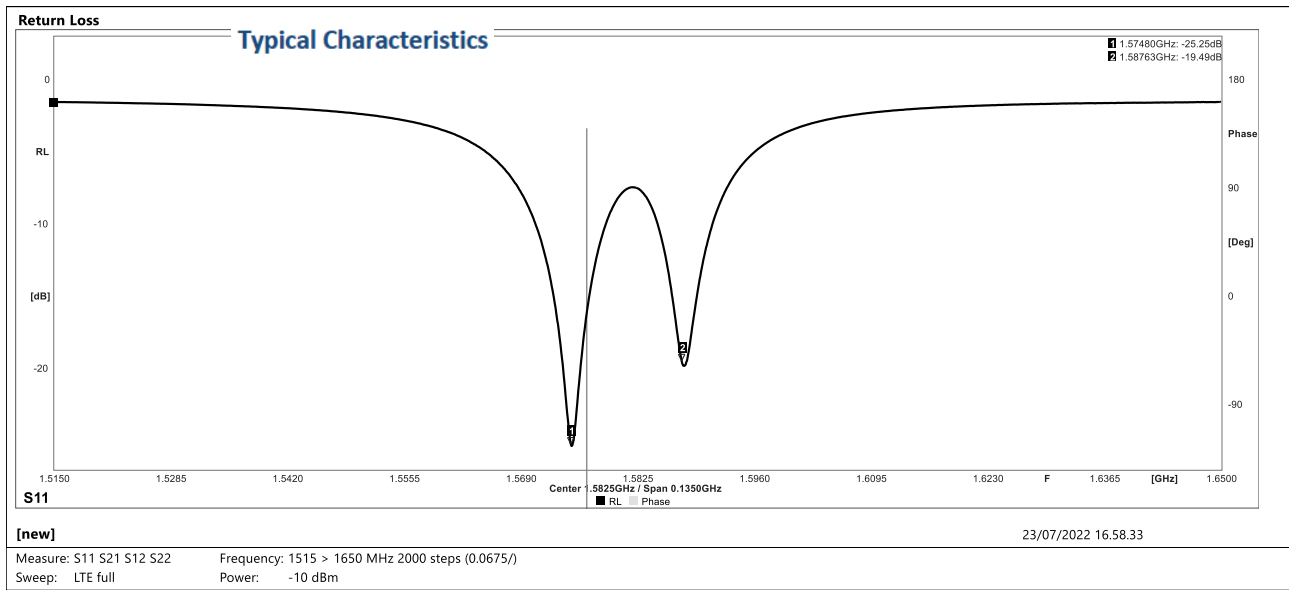
Electrical parameters

| Parameter | Data |
|--------------|------------------------------|
| Feed Voltage | 2.5-4.0 Vdc |
| Current Sink | @3.0 Vdc I=10 mA Typ I=14 mA |
| Gain Antenna | 0 dBiC |
| Gain LNA | 25 dB Typ (@25 °C) |
| Bandwidth | 1,023 MHz |
| Noise Figure | 1.5 dB (@25 °C) |
| VSWR (*) | <2 |
| Impedance | 50 Ohm |
| Polarization | RHCP |
| Axial Ratio | 4 dB |

Dimensional & Env. parameters

| Parameter | Data |
|----------------------|------------------|
| Dimensions | 13.5x13.5x5.6 mm |
| Relative humidity op | 40%-95% |
| Connector Type | ufl |
| Cable type | microcoaxial |
| Cable length | 100mm |
| Temp Range | -30/80 °C |

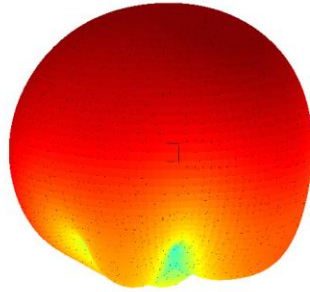
Antenna input impedance diagram



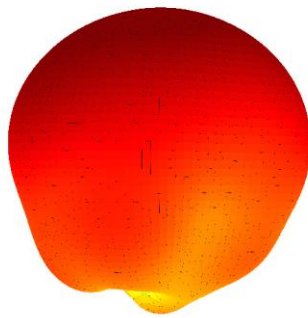
LNA transmission coefficient (@3.3 V)



3D RHCP PATTERN



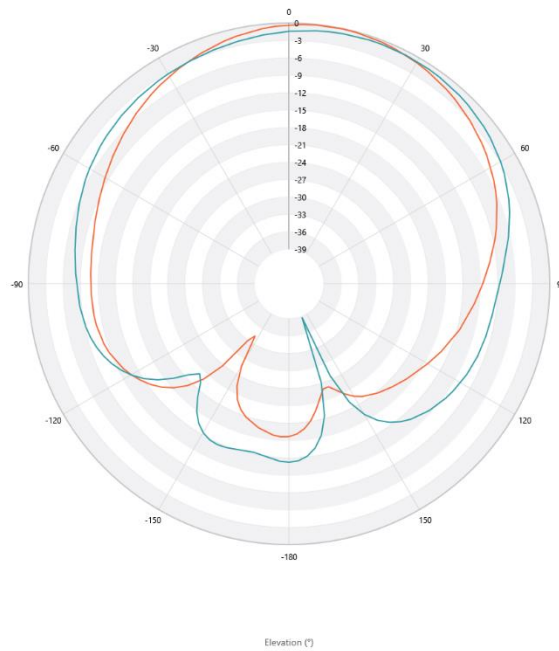
1575.42 MHz



1602 MHz

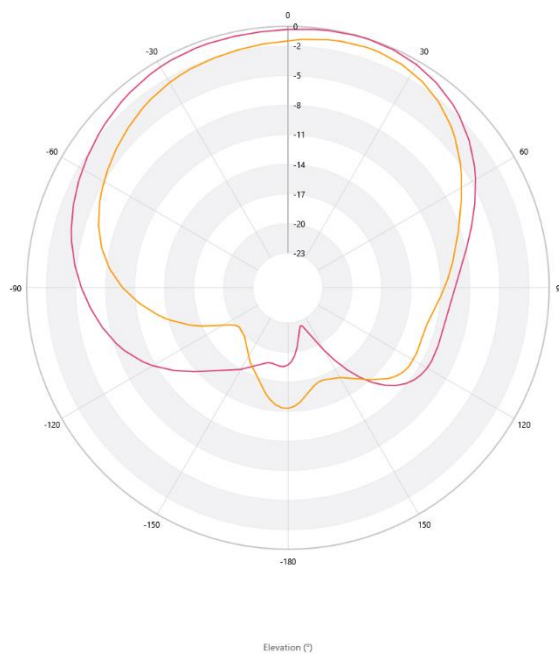
POLAR RHCP PATTERNS

— 1575 MHz 0° ERHCP
— 1601 MHz 0° ERHCP



1575-1602 MHz ELEVATION FI=0°

— 1575 MHz 90° ERHCP
— 1601 MHz 90° ERHCP



1575-1602 MHz ELEVATION FI=90°

Outline

