

Antenna Specification

1. Working Environment
 Temperature: $-40^{\circ}\text{C}\sim+85^{\circ}\text{C}$
 Humidity: 40% ~95%

2. Storage Environment
 Temperature: $-40^{\circ}\text{C}\sim+85^{\circ}\text{C}$
 Humidity: 40% ~95%



3. GPS+BDS/GLONASS specs

| NO | Item | Specifications |
|----|------------------------------------|---------------------------------|
| 1 | Range of Receiving Frequency | 1575.42±1.023 1561.096±2.046 |
| 3 | Band Width(MHz)(Return Loss≤-10dB) | ≥15 |
| 4 | V.S.W.R(in Center Frequency) | ≤1.5 |
| 5 | Gain (Zenith)(dBi typ) | 3.0 |
| 6 | Axial Ratio | ≤5.0dB |
| 7 | Polarization | Right-Handed Circular |
| 8 | Impedance(Ω) | 50 |

4. Amplifier characteristics

| | |
|------------------------------|-------------------------|
| Gain | 28dB±2dB (LNA Gain) |
| Noise figure | <1.5dB (LNA) |
| Output VSWR | <2 |
| Output impedance | 50Ω |
| Passband Ripple | ±1.0dB (LNA) |
| 1dB compression point output | >-10dBm (LNA) |
| Out of band rejection | DC~1400MHz:35dBc min |
| | 1400~1475MHz: 30dBc min |
| | 1475~1525MHz: 25dBc min |
| | 1625~1640MHz: 30dBc min |
| | 1640~2000MHz: 32dBc min |
| 2000~3000MHz: 20dBc min | |
| Prime power | 3.3~5V |
| Operating current | ≤15mA |

5. LTE Antenna Characteristics

| NO | Item | Specifications |
|----|------------------------------|----------------------------|
| 1 | Range of Receiving Frequency | 698~960Mhz 1710~2700Mhz |
| 4 | V.S.W.R(in Center Frequency) | ≤2.0 |
| 5 | Gain (Zenith)(dBi typ) | 2.0 |
| 7 | Polarization | Linear |
| 8 | Impedance(Ω) | 50 |

7. Mechanical Characteristics

| | |
|----------------|-------------------|
| Size | Φ 49X48mm |
| cable | RG174 |
| Cable length | Customization |
| Connector Type | SMA/BNC/FAKRA/MCX |

6. Drawing

