



Helix Antenna for L1/L2/L5 Band

Model number: XT-GNSS-IGATHAV1-22

Product Features

- ✓ IRNSS/GPS (L1/L2/L5) band application
- ✓ Simultaneous Multiband coverage
- ✓ High Gain and Good Axial Ratio
- ✓ Excellent end-of-coverage performance

Mechanical Specifications

- ✓ Dimensions (D x H) : Dia60 mm x Height 110 mm
- ✓ Connector : SMA (F)
- ✓ Operating Temperature : -20° to 80° C
- ✓ Radome Material : -40° to +80° C
- ✓ Mounting : Screw Mounting

Technical Specifications

Electrical Specifications

| Frequency | | | | | | |
|-----------------------------------|---------|----------------------------------------------------------|--------|-------|-------|-------|
| GPS | GLONASS | Galileo | BeiDou | SBAS | IRNSS | QZSS |
| L1/ L5 | L1 | E1/E5a | B1 | L1/L5 | L5 | L1/L5 |
| Antenna Gain at Zenith | | $\geq 3 \pm 1$ dBic | | | | |
| Antenna Gain at EOC | | $\geq 0 \pm 0.5$ dBic in all azimuth phi-75° from zenith | | | | |
| Propagation delay between L5 & S | | ≤ 5 ns | | | | |
| Polarization | | RHCP | | | | |
| Front to back ratio | | ≥ 10 dB | | | | |
| Axial Ratio | | < 3 dB in coverage from zenith | | | | |
| LNA gain | | ≥ 28 dB +/- 2 dB | | | | |
| Noise Figure | | ≤ 2 dB | | | | |
| Output VSWR | | ≤ 2.0 within pass-band | | | | |
| Input Voltage | | 5V | | | | |
| Current Out of band Rejection I m | | < 120 mA | | | | |
| pedance | | > 40 dB 50 ohm | | | | |