



RingAnt-DMT

Choke Ring GNSS Antenna



Key Features

- Full GNSS Tracking
- < 1 mm Phase Center Variation
- Low Axial Ratios
- Pre-filtered LNA
- Multipath Rejection
- IP67

The RingAnt-DMT is a choke ring antenna that embeds the unique Vera-Phase® technology from Tallysman. With multi-constellation and multi-frequency capability, the RingAnt-DMT can track GPS, GLONASS, GALILEO, BEIDOU, QZSS, IRNSS, and SBAS signals.

With less than 1 mm Phase Center Variation and low axial ratios, the RingAnt-DMT is well suited for precision applications such as GNSS reference networks, infrastructure monitoring, geodetic surveying, and machine control.

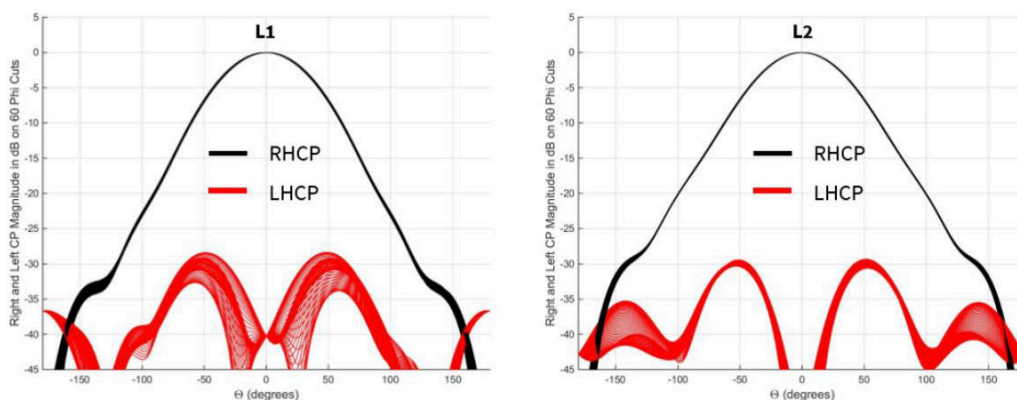


RingAnt-DMT Specifications



GNSS Constellations	GPS GLONASS GALILEO BeiDou QZSS SBAS NavIC L-Band	L1, L2, L5 L1, L2, L3 E1, E5a, E5b, E6 B1, B2, B2a, B3 L1, L2, L5, L6 L1, L5 L1, L5 1539 - 1559 MHz
Out-of-Band Rejection	1160 - 1300 MHz 1539 - 1559 MHz & 1559 - 1606 MHz	> 60 dB @ < 800 MHz, > 45 dB @ 900 MHz > 20 dB @ 1000 MHz 16 dB @ 1400 MHz, 23 dB @ 1430 MHz, 30 dB @ 1462 MHz > 20 dB @ 1480 MHz, > 40 dB @ 1690 MHz, 77 dB @ 1710 MHz 60 dB @ 1710 MHz, 67 dB @ 1835 MHz
Electrical	Antenna Gain Axial Ratio LNA Gain Noise Figure VSWR Phase Center Variation Power	8 dB typical at Zenith 0.3 dB max at Zenith 3.5 dB max at 10° 50 dB 2.0 dB typical 1.5:1 < 1.0 mm 2.7 to 24 VDC, 45 mA
Environmental	Operating Temperature Storage Temperature Ingress Protection Vibration Salt Fog Compliance	-55° C to +85° C -55° C to +95° C IP67 MIL-STD-810E, Method 514.5 MIL-STD-810G, Method 509.6 IPC-A-610, FCC, RED / CE Mark, RoHS, REACH
Mechanical	Dimensions Weight Antenna Type Connector Enclosure Mount	378 x 150.8 mm (Dia. x H) 5.4 kg Omni-directional, hemispherical N-type female Radome, SCIGN compatible 5/8" x 11 TPI, female

Normalized Radiation Patterns



GNSS performance is dependent on signal quality, satellite geometry, ionospheric and tropospheric conditions, baseline length, multipath effects and RF interference. Specifications may be changed without notice.