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.

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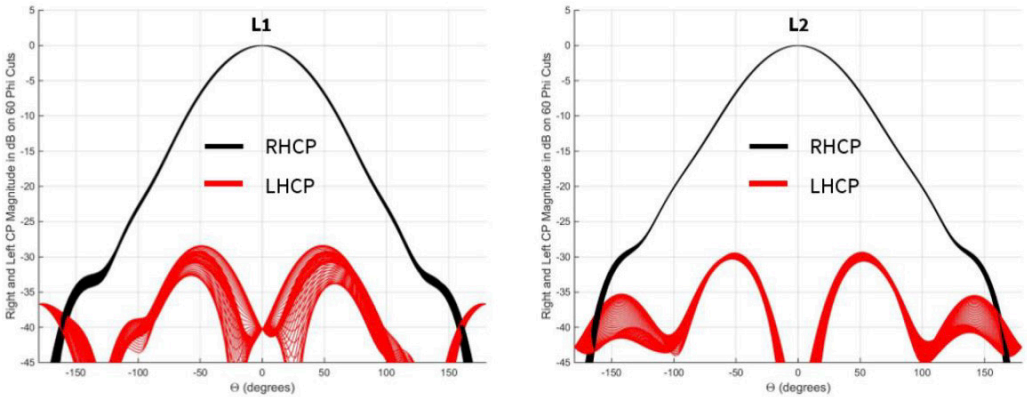
RingAnt-DMT Specifications

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

Normalized Radiation Patterns



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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.