ELX1215-SMA Active Helix Antenna

The ELX1215-SMA is a compact active dielectrically loaded helical antenna for L1 and L2 bands. It has an intrinsic band-pass filter response, tightly tuned to L1 and L2 frequency bands which provides protection from out of band interference.

This antenna is robust and durable with high multi-frequency gain for its size and footprint

The ELX1215-SMA supports multi-constellations including GPS L1/L2, BeiDou B1, Galileo E1, GLONASS G1 and SBAS.

Applications

- Drones / UAVs
- Asset Tracking
- Portable GNSS terminals
- Precision Navigation
- Industrial / Agricultural applications

Key Features

- High gain across both bands
- Highly accurate, focused phase centre
- RHCP with excellent co-to-cross polarisation ratio
- Immunity to detuning in near field
- SMA connector mount / Flat base with O-Ring

SPECIFICATIONS

Frequency Range	Axial Ratio	VSWR	Multipath Reduction Ratio (MRP)	Impedance	Bandwidth (3db) L1 / L2
L1 - 1559 - 1591 MHz L2 - 1215-1240 MHz	3 dB	<2:1	10 dB	50 Ohm	L1 - 32 MHz L2 -35 MHz
			1w	50 Ohm	Linear

Noise Figure	Input Power	Power Consumption	Polarisation: co-to-cross disc @zenith	L1 Peak Gain @ zenith	L2 Peak Gain @ zenith
1.5 dB	1.8 - 5.0V	14 mA	15 dB	36 dBic	34 dBic

Out of band rejection (100 MHz offset from carrier)	Radome Material	Dimensions	Connector	IP Rating	Operating Temperature
80 dB	Thermolast	53x19 (hxd)	SMA-Male	IP67	-45 to +85 C

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Specifications subject to change without notice.