

12100 Series, Airborne Puck Antennas

The 12100 series antennas are robust, rigorously tested and environmentally sealed units suitable for a wide variety of GPS applications. They are ideal for vehicle tracking, marine or airborne navigation installations requiring maximum security and durability.

These antennas have been tested to DO-160 environmental test requirements and are designed to meet Arinc 743 specifications. They feature dual o-ring seals that protect them against severe environmental conditions for reliable, long-lasting performance. Their radome is constructed of high grade polymer resin for UV and abrasion resistance. They will resist all de-icing fluids, jet fuels, and standard cleaning solvents.

The antennas in this series are hard mounted through a unique single hole feed structure and include gaskets to prevent air and water leaks. They are available in passive form (no amplifier) or in a variety of active amplified gain configurations.



1210FW

STANDARD CONFIGURATION

Model	Mount	Connector	Radome
1210FW 1213FW	Through hole 5/8-18UNC-2A thread	TNC Female Bulkhead	Color: White

ELECTRICAL SPECIFICATIONS - GNSS ANTENNA

Model	LNA Gain	Frequency Range	Element Gain	Noise Figure	Current Draw
1210FW 1213FW	26 dB 40 dB	1575.42 ± 10 MHz (GPS L1)	+4.5 dBiC nominal at zenith	2.5 dB maximum	25 mA typical ≤40 mA

ELECTRICAL SPECIFICATIONS - GNSS ANTENNA, continued

Model	DC Voltage	VSWR	Nominal Impedance	Polarization
1210FW 1213FW	5-9 VDC through connector	2.0:1 maximum	50 ohms	Right hand circular

MECHANICAL SPECIFICATIONS

Model	Dimensions	Weight	NATO Stock Number	Housing Material
1210FW 1213FW	2.7" OD x 0.75" D	3 oz nominal	5820 99 147 2772 (for 1213FW only)	Aluminum

ENVIRONMENTAL SPECIFICATIONS

Model	Temperature Range	Humidity
1210FW 1213FW	-40°C to +85°C	95%