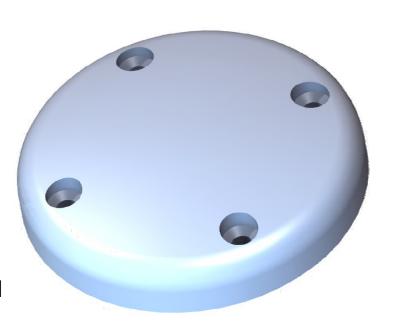


21-45-02 L1 Active GPS Antenna 1575.42 ± 12 MHz

FEATURES

- DC grounded for Lightning Protection
- 33 dB LNA
- Fully sealed construction for environmental reliability
- Designed to MIL-STD-810 Environmental conditions
- Low Profile
- Covers L1 Frequency Band
- Right Hand Circular Polarized



The 21-45-02 antenna is designed to provide operation at the L1 frequency. It is of low profile construction and is supplied in a composite cover with an aluminium alloy baseplate on to which are attached the antenna radiating elements. Within the enclosure is a low noise amplifier (LNA) with a gain of + 33 dB. The antenna is designed for use on groundplanes of typically 300 mm diameter or more.

The antenna operates with nominal Hemispherical coverage in GPS L1 band to allow reception of microwave signals from a number of satellites.

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SPECIFICATIONS

Cooper Antennas Model 21-45-02

L1 GPS Antenna

ELECTRICAL

Frequency 1575.42 ± 12 MHz

Radiation Pattern Nominally Hemispherical

Polarization Right hand circular

VSWR ≤ 1.5:1

Impedance 50 ohms

Gain (nominal at Zenith)

Between 3 - 5 dBic depending upon groundplane

Power Handling 1 Watt CW

Connector TNC Female

LNA Gain Nominally 33 dB

LNA Noise Figure 2.2 dB

LNA DC Power 2.5 V / 20 mA

MECHANICAL

Height 0.75 inches (18.97 mm)

Element diameter 3.50 inches (88.90mm)

Weight 0.49 lbs (0.22 kg) max

4 x Ø 0.20 inches (Ø 5.11mm) thru Ø .385 (Ø 9.78)

100° countersunk

FINISH

Antenna Matt Grey

Other finish options are available. Please specify finish required when ordering.

Note: Cooper Antennas Ltd has a policy of continuous product improvement and data herein is therefore subject to change.

Please check with Cooper Antennas Ltd that this data sheet is at latest issue before initiating contract activity.

Fixing Holes