



ANTENNA EXPERTS

E-mail: info@antennaexperts.in Website: www.antennaexperts.in

Model # HR-1575-5 1550 – 1590 MHz. 5 dBi. Gain

LINEAR POLARIZED GPS L1 BAND HORN ANTENNA

DESIGN FEATURES: The HR-1575-5 horn antenna uses 6063T6 ultra corrosion resistant architectural anodized aluminum alloy and designed to provide wideband directional transmission/reception of radio signals from 1550-1590 MHz bands including GPS L1 bands. This low-profile horn antenna uses Linear Polarization Antenna Technology - which can be changed in the field from Vertical to Horizontal and vice versa. This commercial grade horn antenna provides medium performance while maintaining the wider beam-width as compare to significantly larger and more expensive products. The specially designed mounting arrangement results in fast installation. The horn antenna is supplied complete in assembled condition. This horn antenna system is particular suitable for transmission, reception, monitoring, scanning and jamming applications due to its broad band design feature.



CONSTRUCTIONS: The horn antenna is supplied with powder coating finish to protect the antenna further from severe environmental condition. This horn antenna can be supplied with dual linear polarization to receive both V & H polarization signals simultaneously for polarization diversity (Optional). The HR-1575-5 Horn Antenna is light weight, broadband and rugged horn antenna, ready mobility, easily mounts, supplied with fiberglass radome to protect the antenna from environment. N-Female output termination of horn antenna is fixed directly at the wall of horn antenna. All the screws, nuts and bolts of horn antenna are made of marine grade stainless steel.

ELECTRICAL SPECIFICATIONS:

Frequency Range	1550 - 1590 MHz.
Gain	5 dBi.
Bandwidth	Entire Band
Polarization	Linear – V or H
Input Impedance	50 Ohms.
Radiation Pattern	Directional
3 dB. Beam-width	120 Degrees.
Front to Back Ratio	15 dB.
VSWR – Better Than	1.5 : 1
RF Power Handling Capacity	100 Watts.
Input Termination	N-Female

MECHANICAL SPECIFICATIONS:

Mounting Hardware	Marine Grade Stainless Steel
Gross Weight	Less than 2Kg.
Wind Rating	200 Km/Hr.
Overall Depth	120 mm (Radome Only)
Aperture Dimension	120 x 120 mm
Radiating Materials	High Quality Brass
Enclosure Materials	6063T6 Aluminum Alloy
Radome Material	Fiber Glass
Maximum Mount Pipe Diameter	52 mm (2 Inches)
Shipping Dimension	200 x 125 x 125 mm

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature	(-) 30 to +70 Degrees Celsius
Storage Temperature	(-) 40 to +80 Degrees Celsius
Humidity	0 to 95% RH

Note: All information contained in the datasheet is subject to change without any prior notice.