



# ANTENNA EXPERTS

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Model # HR-1227-5 1210 – 1240 MHz. 5 dBi. Gain

## LINEAR POLARIZED GPS L2 BAND HORN ANTENNA

**DESIGN FEATURES:** The HR-1227-5 horn antenna uses 6063T6 ultra corrosion resistant architectural anodized aluminum alloy and designed to provide wideband directional transmission/reception of radio signals from 1210-1240 MHz bands including GPS L2 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-1227-5 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            | 1210 - 1240 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               | 125 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 150 x 150 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.