



IP67 Roof GPS/GNSS Antennas, Jam-Resistant



Key Features

- Waterproof and corrosion-resistant housing filtering for harsh RF jamming environments
- Proven extra rugged, reliable
- TNC connector with nut mounting
- RoHS-Compliant (Pb-free)

Presentation

Whatever the environment, the Roof GPS and GNSS antennas will perform, year after year. These antennas provide a perfect solution for embedded or static, HEOL DESIGN GNSS systems.

These models, in both 3 V and 5 V, are designed for drill-through mounting on vehicle roof and trunk panels. The tough plastic housing and the feedthrough threaded nut mount enable these units to withstand exposure to shock, vibration, and weather extremes. These models feature a TNC connector.

Environmental characteristics

Vibration	10-200Hz Log sweep 3g 3 axes
Shock	50g vertical, 30g all axes
Operating Temperature	-40/+85 °C
Storage Temperature	-45/+90°C
Humidity	65 ±20% RH
Corrosion	BASED ON JIS Z 2371, SPRAY 5% SALT WATER 35° SHOULD NOT RUST AFTER 96Hrs.
Waterproof	IP67 – Immersion to 1 meter JIS D0203 S2
Mounting	19mm nut mounting
Weight	150 grams

Electrical/Performance characteristics

Part Number	HDA-0228-70	HDA-0228-00	HDA-0228-20	HDA-0228-30
Satellites coverage	GPS	GPS	GPS/GLONASS	GPS/GLONASS
Power consumption	35mA max	35mA max	13mA typ	7mA typ
Prime power	5V	3V	5V	3V
Power tolerance	±10%			
Gain	28dBI	28dBI	32dBI	30dBI
Frequency	1575.42MHz ±1.023MHz		1575 MHz to 1610 MHz	
Noise (25 °C)	1.8 dB	3.3 dB	2 dB	2 dB
Impedance	50 Ohm			

Mechanical

