#### **GPS Antennas**

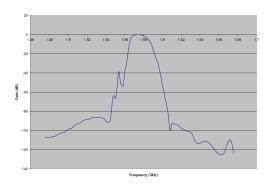




# Low Noise Amplifier Specifications

Nominal Gain: 40 dB
Noise Figure: 3.1 dB (typical)
Voltage: 2.7-5 VDC
ESD Circuit Protection: 15 KV

# Out-of-band Filter Rejection



# 3978D-HR-DH-W-TAD High Gain, High Rejection Pipe End Mounted GPS Antenna

The 3978D-HR-DH-W-TAD high gain, high rejection pipe end mounted GPS Antenna provides 40 dB gain and great high out-of-band rejection performance. It is the optimal choice for GPS Tracking and Timing applications with long cable runs and stand alone GPS applications. It features a precision tuned custom ceramic patch element for maximum signal reception, 15KV ESD circuit protection, a very low noise 3 stage LNA circuit and dual SAW filters for superior out-of-band rejection. This enables the 3978D-HR-DH-W-TAD to provide a reliable and clear GPS signal while minimizing loss-of-lock, even when conditions are less than ideal. Available in an all-plastic, non-corrosive low profile package with nickel zinc trivalent steel adapter for pipe end installations.

#### **Features**

- Weather proof, all-plastic, non-corrosive, cone-shaped enclosure
- Included adapter for pipe end mounting
- Unique radome sheds water and ice, while eliminating problems associated with bird perching

Voltage range: 2.7 to 5.5 V
High gain: 40 dB (typical)
15 KV ESD circuit protection

## **RF/Electrical Specifications**

Center Frequency	<b>Nominal Gain</b>	Polarization	<b>Current Draw</b>
1575.42 MHz	3 dBic @ 90°	Right Hand	15 mA
	-2 dBic @ 20°	Circular	from 2.7-5.5 VDC

## **Mechanical Specifications**

GE Lexan® EXL9330

Antenna Dimensions (diameter x height)	Weight	Shock	Vibration
2.56" x 1.73" (65 x 44 mm)	.12 lbs (50 g)	Vertical axis 50G, other axes 30G	3 axis, sweep = 15 min 10 - 200 Hz log sweep: 3G
Housing	Connector	Mounting Method	
		Nickel 7inc	Trivalent Steel Adapter

TNC jack

### **Environmental Specifications**

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Temperature Range	Weatherproof
-40°C to +85°C operating	IP67

Included for Pipe End Mount

PCTEL, Inc. WEB: www.antenna.com