GPS/Aviation Special Purpose Antennas GPS Timing Reference Antennas



8171D-HR-DH-W



8171D-HR-NDH-W

Low Noise Amplifier Specifications

Frequency Band: 1574-1610 MHz				
Amplifier Gain: @ 3.0VDC: 26 dB (typical)				
Noise Figure: < 2.0 dB (typical)				
Out-of-band Rejection: f0 = 1586 MHz f0 ± 50 MHz :≥ 60dBc f0 ± 60 MHz :≥ 70dBc				
DC Voltage: 2.8-6.0 V (operating) ≤ 12.0 V (survivability)				
DC Current: < 25 mA (typical)				

PCTEL

GPS/GLONASS High Rejection Time Sync Antenna

PCTEL'S GPS/GLONASS High Rejection Time Sync Antenna is a dual-band antenna covering both GPS L1 and GLONASS L1 frequencies. PCTEL's proprietary filtering design allows wideband coverage while achieving superior out-of-band rejection. This antenna comes in a small, conical form factor to minimize perching and provide runoff. The temporary mount model (8171D-HR-DH-W) is equipped with a TNC female connector, while the permanent mount models (8171D-HR-NDH-W) has an N-Male bottom-fed connector. This antenna is ideal for any global GPS/GLONASS time synchronization application that requires an externally mounted antenna.

Features

- GPS L1 & GLONASS L1 Frequencies
- Industry Leading Out-of-Band Rejection
- 26 dB LNA Gain
- Low Noise Figure < 2.0 dB
- Conical radome sheds water, ice, and minimizes bird perching

Applications

- Carrier Network Timing / Small Cell
- Utility Electric Grid Synchronization
- Positive Train Control (PTC) Networks
- Broadcast Digital TV Networks
- Public Safety Communications
- Banking / Financial Time Stamping
- Seismic Detection

RF/Electrical Specifications

Part Number	Frequency Band	Nominal Gain	Polarization	Nominal Impedance
8171D-HR-DH-W 8171D-HR-NDH-W	1574-1610 MHz	2 dBic @ 90°	Right Hand Circular	50 ohms

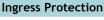
Mechanical Specifications

Part Number	Dimensions	Weight	Shock	Vibration
8171D-HR-DH-W	2.36" x 1.73" (60 x 44 mm)	0.1 lbs (50 g)	Vertical axis	Savis sween = 15 min
8171D-HR-NDH-W	2.36" x 2.80" (60 x 71 mm)	.15 lbs (68 g)	50G, other axes 30G	
Part Number	Radome Mater	ial (Connector	Mounting Method
8171D-HR-DH-W	GE Lexan EXL93	30 -	TNC Female	¾" thru-hole or bracket mount*
8171D-HR-NDH-W	GE Lexan EXL93	30	N Male	N Female Panel Mount or Bracket Mount

Environmental Specifications

Temperature Range

-40°C to +85°C operating



IP67**

* Order MMK1925 for compatible mounting.

** When installed according to the manufacturer's Installation instructions.

