L1GPSA-N



L1 GPS Active Antenna Technical Product Data

Features

- High Gain Amplified Roof Antenna
 - o Provides 38 dB gain via internal LNA.
- Low Noise Figure
 - 1.8dB typical
- Low Operating Current
 - o 20mA typical
- Enhanced immunity to lightning surge
 - IEC61000-4-5 Level 4 (4000V) prevents antenna failure caused by induced lightning.
- Optional L1RAMB Mount with Base and Pole available separately



Description

The L1GPSA-N is a 38dB gain GPS antenna designed for the L1 carrier frequency. Designed for timing and synchronization applications, the L1GPSA-N maintains excellent performance under severe environmental conditions (rain, snow etc.). It also features high gain, low noise figure and a low operating current. With convenient mounting options, the L1GPSA-N is an excellent choice for ensuring a strong reliable L1 GPS signal.

Roof Antenna Electrical Specifications, TA=25°C

<u>Parameter</u>	<u>Notes</u>			Min	Typ	<u>Max</u>	<u>Unit</u>
Frequency	Receives and amplifies GPS L1 frequency.				1.575		GHz
Gain	The relative increase in signal power provided by the internal LNA.				38		dB
Bandwidth	Passband centers at GPS L1 frequency.				10		MHz
Filtering	Out of band rejection +/-50MHz from GPS L1 frequency.				-60		dB
Noise Figure	The increase in noise power relative to an ideal amplifier.				1.8		dB
Output SWR	Output Standing Wave Ratio: S22 at L1.					1.5:1	-
Characteristic Impedance	Output port matched to 50Ω.				50		Ω
Req. DC Input V.	Operating Voltage Range.			4.5	5	5.5	VDC
Current Draw	Typical current consumption.				20	27	mA
Polarization							
Right Hand Circular Polarization							
Connector Options		Connector Style Type N-female	Charge No Charge				

Mechanical

