

L1GPS4-N

L1 GPS Active Antenna

Technical Product Data



Features

- High Gain
 38dBi typical
- Low Noise Figure
 1.8dB typical
- Pipe/Pole Mount Included
 Optional L1RAMB Mount with Base and Pole available separately
- Low Operating Current 20mA typical
- Low VSWR typical 1.5:1
- Right-hand circularly polarized
- Enhanced immunity to lightning surge

IEC61000-4-5 Level 4 (4000V) prevents antenna failure caused by induced lightning

Description

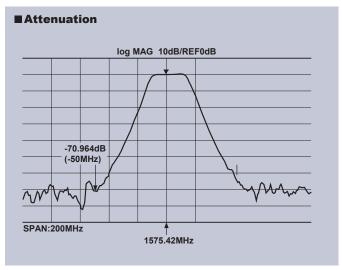
The L1GPSA-N is a 38dB gain GPS antenna designed for the L1 carrier frequency. Designed for timing and synchronization applications, the L1GPSA-N maintains excellent performance under severe environmental conditions (rain, snow etc.). It also features high gain, low noise figure and a low operating current.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

Electrical Specifications, $T_A = 25^{\circ}C$

Parameter	Conditions			Max	Units
Freq. Range	Ant – J1	157	75.42 +/-	-1.023	MHz
In/Out Imped.	Ant, J1		50		Ω
Polarization	Right-hand circularly polarized,				
Noise Figure			1.8		dB
VSWR	Ant - 50Ω		1.5:1		-
Operating Voltage		4.5	5.0	5.5	Vdc
Operating Current			20	27	mA
Immunity to	IEC61000-4-5 Level 4				
Lightning Surge					

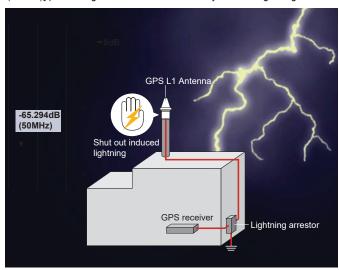
Immunity to noise and interference

Secure performance by attenuating noise and interference near GPS L1 frequency through triple filtering design

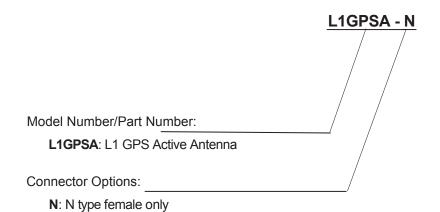


Immunity to lightning surge

Model with enhanced immunity to lightning surge [IEC61000-4-5 Level 4 (4000V)] preventing antenna failure caused by induced lightning



Part Number



Mechanical and Environmental

<u>Dimensions</u>: Height: 98.4 mm

Diameter: 88.5 mm

Width: 0.75" (+0.438" including mounting tabs)

Weight: 187 grams)

Operating Temp. Range: -40° to + 85°C

Storage Temp. Range: -45 to +85C

