

GNSS-3P

GNSS Passive Antenna

KEY FEATURES

- Military and Civilian Applications
- GNSS Bands: GPS L1, L2; GLONASS L1, L2 and L3; GALILEO E1, E5b
- Waterproof
- Excellent gain
- Small Form Factor
- Integrated Resistor for Antenna/Coaxial Cable BIT
- Bottom Mount



Automated Built In Test (BIT)

The GNSS Antenna includes BIT. The antenna can monitor the DC voltage on the center conductor to determine the status of the cable and antenna connection.

DURABLE, HI PRECISION, BUILT TO LAST

The GNSS passive antenna from GPS Source is built for long term reliability. The antenna is small and lightweight, with exceptional protection against the elements. It is suitable for manpack, ground, marine, aircraft, and space applications, multiple GPS devices and operating platforms.

Designed to future proof your investment, the portable, yet precise GNSS antenna will transmit GPS, GLONASS and future Galileo signal. The ruggedized antenna, engineered with weather resistant materials, protects the antenna from UV, rain and lightning strikes, chemical and jet fuels - making it an ideal investment for long term use.

DESIGNED TO THE FOLLOWING STANDARDS

- » Mechanical Vibration: 810G, Mtd 514.6, Proc. 1
- » Functional Shock: 810G, Mtd 516.6, Proc. 1
- » Crash Hazard: 810G, Mtd 516.6, Proc. V
- » High Temperature: 810G, Mtd 501.5, Proc. 1 & II
- » Low Temperature: 810G, Mtd 502.5, Proc. I & II
- » Temperature Shock: 810G, Mtd 503.5, Proc. I-C
- » Altitude: 810G, Mtd. 500.5, Proc. II & III
- » Humidity: 810G, Mtd 507.5, Proc. II
- » Salt Fog: 810G, Mtd 509.5
- » Fungus: 810G, Mtd 508.6
- » Sand and Dust: 810G, Mtd 510.5, Proc. 1 & II
- » Conducted Emissions: 461F, CE106
- » Radiated Emissions: 461F, RE102
- » Radiated Susceptibility: 461F, RS103

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GNSS Antenna

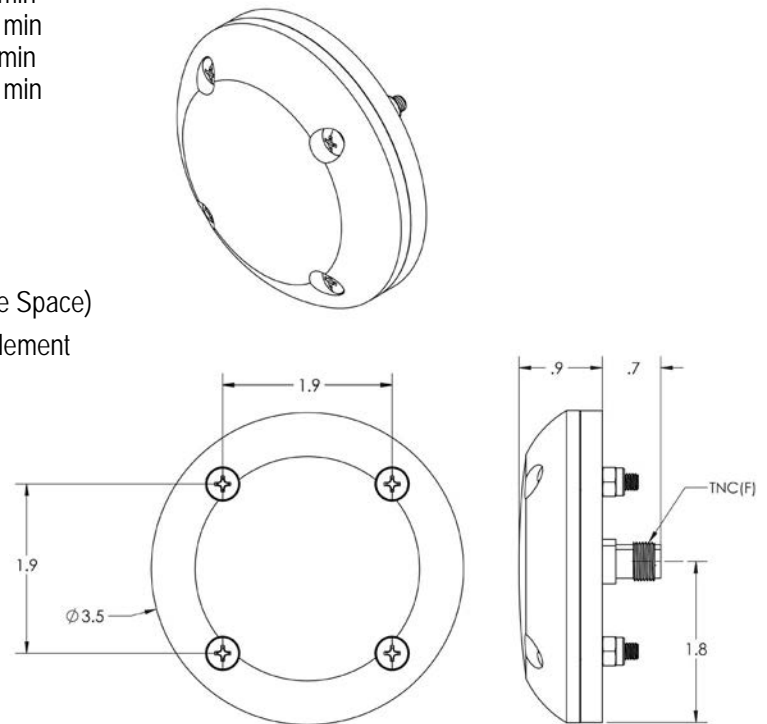
Frequency Range (Passband)	GNSS Upper Band	1575.42 MHz typical
	GNSS Lower Band	1227.6 MHz typical
Out Impedance		50Ω typical
Element Gain (Output = 50Ω, 4 ft G.P.)	GPS L1	>+3 dBiC min
	GPS L2	>+0 dBiC min
	GLONASS L1	>+3 dBiC min
	GLONASS L2	>-3 dBiC min
	GLONASS L3	>-5 dBiC min
	Galileo E1	>+3 dBiC min
	Galileo E5	>-3 dBiC min
	Galileo E5b	>+5 dBiC min

Axial Ratio at Peak	< 2.8 dB max
Output SWR	2:1 max
Polarization	Right Hand Circular
Beam Width	110 ±5° at -3dB from Peak (Free Space)
Lightning Protection	DC to Ground on the Antenna Element
Altitude	50,000 ft
Temperature	-54°C to 71°C

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Physical Specifications

Size	Diameter: 3.5" Height: .9"
Weight	9.44 oz
Base Finish	Iridite per Mil-C-5441
Connector	SMA(m,f), TNC(f), or N(m,f)



ABOUT US

GPS Source is an original equipment manufacturer (OEM) that designs, manufactures and sells high-precision GNSS/GPS technology for both Commercial & Defense Industries.

www.gpssource.com