

GPS LIVE INSIDE

L1L2-S2GP

L1/L2 Passive Antenna

DESCRIPTION

The L1L2-S2GP is a dual band passive L1/L2 GPS antenna designed for long term reliability. It is small and lightweight, with exceptional protection against the elements.

Designed to support the Warfighter, the portable, yet precise GPS L1/L2 antenna is built for tough applications. The radome is made of a high-grade polymer, with a design to protect from UV, rain, lightning, chemical and jet fuels. The L1L2-S2GP is available with a side or magnet mount and multiple colors (per FED-STD-595B).

FEATURES

- Military and Civilian Aviation Applications
- L1/L2 Dual Band
- Waterproof
- Excellent gain, up to 3dBiC
- Small Form Factor
- Integrated Resistor for Antenna/Coaxial Cable BIT

OPTIONS

The L1L2-S2GP comes with many available options to meet specific needs. Please contact GPS Source via phone, fax, email, or visit the website for further information on product options and specifications.



1 L1L2-S2GP Specifications

Table 1-1. Electrical Specifications

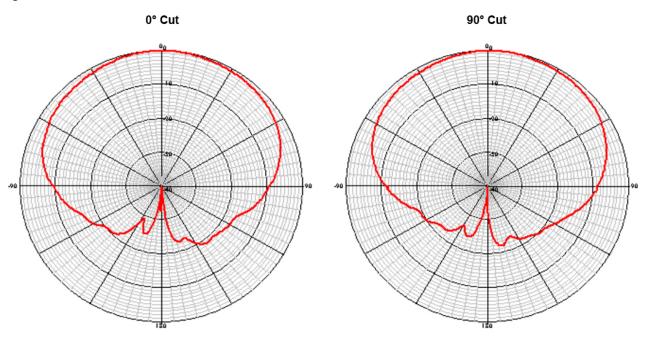
Operating Temperature -54°C to 71°C

Parameter		Conditions	Min	Тур	Max	Units	
Frequency Range (Passband)	L1	Ant: Output = 50Ω	1560.42	1575.42	1590.42	MHz	
	L2		1212.60	1227.60	1242.60		
Out Impedance				50		Ω	
Element Gain	L1	Output = 50Ω, 4ft G.P.	3	3.40	4	dBiC	
	L2		3	6.70	7		
Output SWR		Output = 50Ω			2:1	_	
Polarization		Right Hand Circular					
Axial Ratio at Peak		2dB Max					
Beam Width		115° +/-5° at -3dB from Peak					
Altitude		50,000ft					
Lightning Protection		DC Ground on the Antenna Element					

2 Performance Data

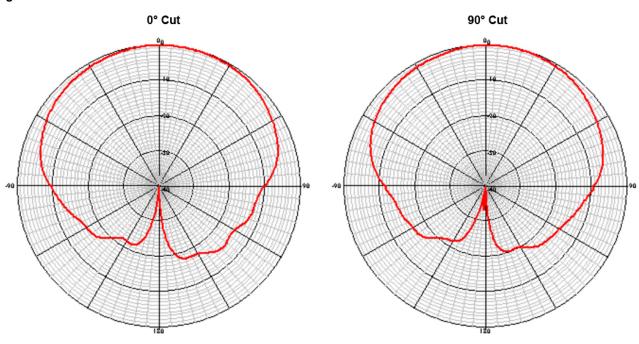
2.1 L1 Center Frequency

Figure 2-1. Far Field Plots No Ground Plane



2.2 L2 Center Frequency

Figure 2-2. Far Field Plots No Ground Plane





3 Environmental Requirements

The L1L2-S2GP has been designed to meet the MIL-STD-810 following requirements.

Table 3-1. MIL-STD-810 Requirements

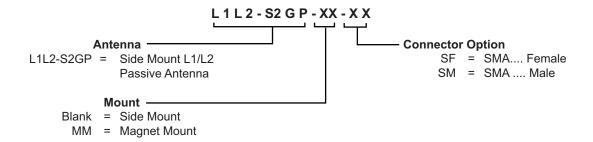
Environment	MIL-STD	9-810 Requirements
Mechanical Vibration	810G	Mtd 514.6
Functional Shock	810G	Mtd 516.6
Crash Hazard	810G	Mtd 516.6
Temperature and Altitude	810D	Mtd 520.0, Proc. III
Temperature Shock	810D	Mtd 503.2, Proc. I
Humidity	810D	Mtd 507.2, Proc. III
Salt Fog	810D	Mtd 509.2, Proc. I
Fungus	810D	Mtd 508.3
Sand and Dust:	810D	Mtd 510.2, Proc. I
Explosive Atmosphere	810D	Mtd 511.2, Proc. I

4 Product Options

Table 4-1. L1L2-S2GP Available Options

Туре	Options			
Connector	SMA	Female (Standard) Male		
Mount	Side (Standard)			
Widuit	Magnet			
	White	Gloss		
	Black (Standard)	Matte		
Color (FED-STD-595B)	Olive Green	Matte		
,	Desert Sand	Matte		
	Gray	Matte		

5 Product Code Decoder

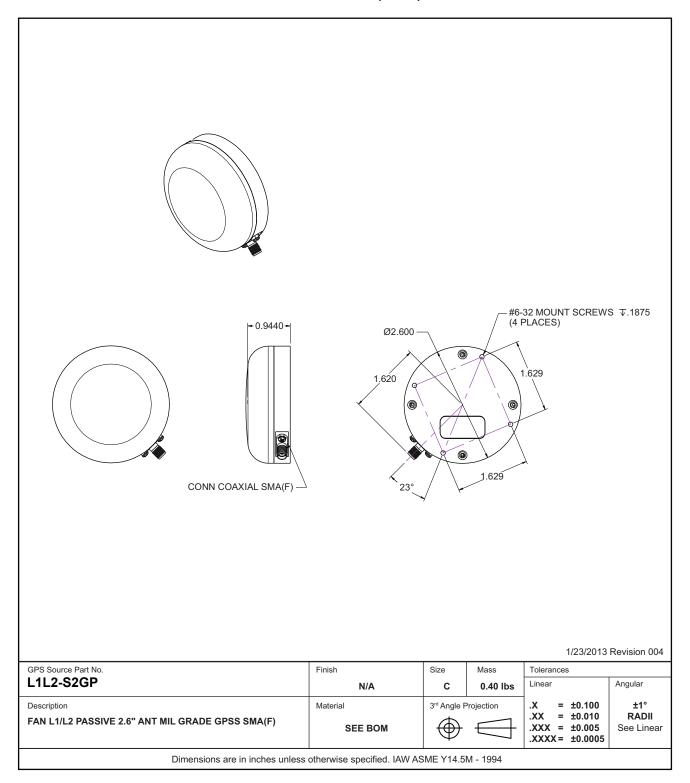


Note: To have product/part codes customized to meet exact needs, contact GPS Source at techsales@gpssource.com or visit the website at www.gpssource.com.



6 Mechanical Drawing

6.1 L1L2-S2GP L1/L2 Passive Antenna Side Mount (SMA)





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AS9100C:2009 and ISO 9001:2008 Compliant Company





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L1L2-S2GP Data Sheet

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