

L1L2-2GP





The L1L2-2GP 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.

Enabled

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 L1L2-2GP is available with a bottom mount connector and multiple colors (per FED-STD-595B).

FEATURES

- Military and Civilian Aviation Applications
- L1/L2 Dual Band
- Waterproof
- Typical gain of 3dBiC
- Small Form Factor
- Bottom Mount

OPTIONS

The L1L2-2GP comes with many available options to meet specific needs. Please contact GPS Source via phone, email, or visit the website for further information on product options and specifications.



1 L1L2-2GP 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	1575.42	1590	MHz	
	L2		1212	1227.60	1242		
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					

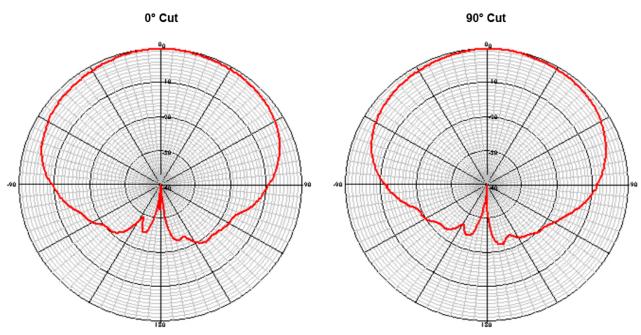
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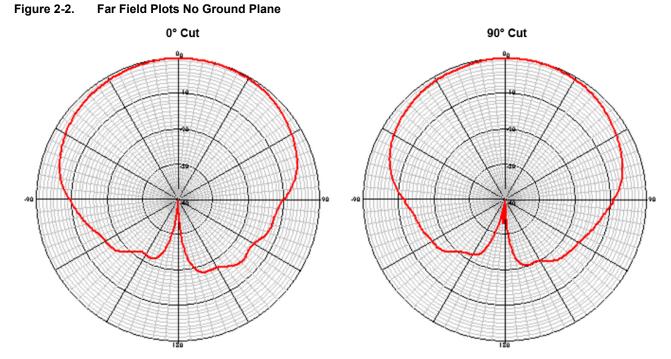
2 Performance Data

2.1 L1 Center Frequency





2.2 L2 Center Frequency





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3 Environmental Requirements

The L1L2-2GP has been designed to meet the MIL-STD-810 following requirements.

Table 3-1. MIL-STD-810 Requirements

Environment	MIL-STD-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	

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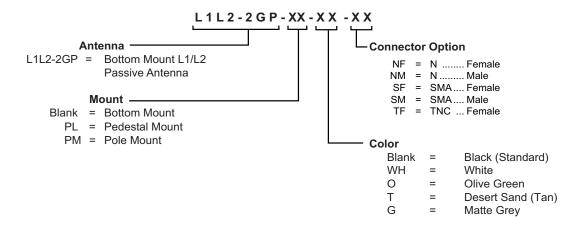


4 Product Options

Table 4-1. L1L2-2GP Available Options

Туре	Options		
	N	Male and Female	
Connector	SMA	Male and Female	
	TNC	Female	
Mount	Int Bottom (Standard)		
	White	Gloss	
	Black (Standard)	Matte	
Color (FED-STD-595B)	Olive Green	Matte	
. ,	Desert Sand	Matte	
	Gray	Matte	

5 Product Code Decoder



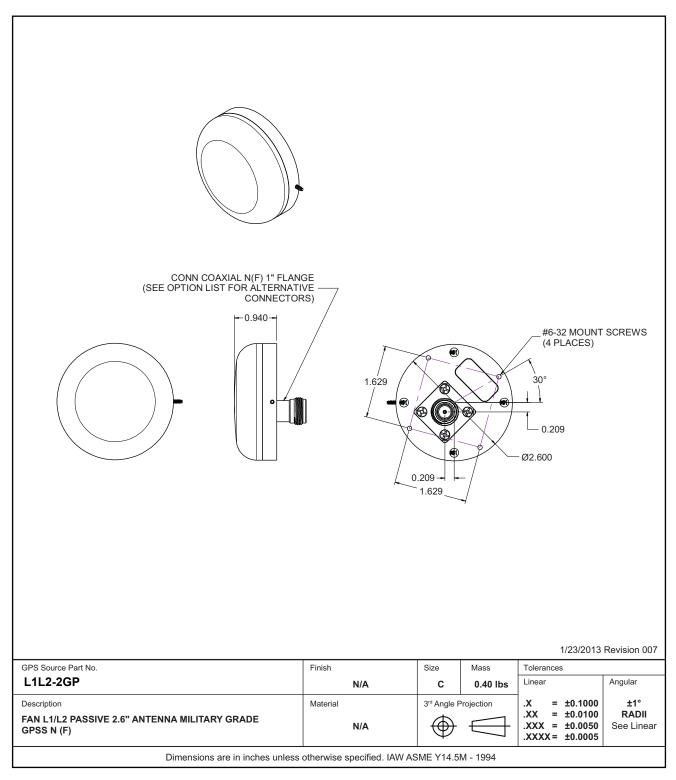
Note: To have product/part codes customized to meet exact needs, contact GPS Source at GPSS-Sales@gd-ms.com or visit the website at www.gpssource.com.



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6 Mechanical Drawing

6.1 L1L2-2GP GPS Passive Antenna





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AS9100 and ISO 9001 Compliant Company



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