

Active GPS Antenna Dual Band L1/L2 N-Type Female, MIL-STD-810, TAA Compliant

Description

The FMANGPS1017 is an active GPS dual band L1/L2 antenna, from Fairview Microwave, with N-Type Female connector is specifically designed for military and unmanned vehicle applications. This high precision antenna conforms to MIL-STD-810 for humidity, shock, vibration, blowing rain, water immersion and has an altitude rating of 20 Km. The Mil Spec active GPS antenna is ideally suited for use in harsh active operating environments where stability and reliability of GPS signal is required.

Our GPS antenna specialists are ready and available to answer any questions you may have on the FMANGPS1017. This antenna operates in the 1.215 - 1.239GHz and 1.563-1.587 GHz bands meeting GPS L1/L2 requirements. The FMANGPS1017 antenna has an integrated LNA with 3 dB noise figure and gain of 20 dBi. It is mounted using standard US 4 hole or NATO 3/6 hole pattern. Fairview Microwave's active GPS Antenna FMANGPS1017 is in stock and ready to ship.

Configuration

Design	GPS Active
Gain	20 dBi
Polarization	RHCP
Connector Type	N Female
Number of Ports	1

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	1,215.6		1,587.42	MHz
Impedance		50		Ohms
Out Of Band Rejection		30		dB
Operating DC Voltage	1.8		5.5	Volts
Current		16		mA

Specifications by Frequency

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	1.216 to 1.239 1.563 to 1.587					GHz
Gain	20	21				dBi

Mechanical Specifications

Size	
Length	5.5 in [139.7 mm]
Width	5.5 in [139.7 mm]
Height	2.56 in [65.02 mm]
Weight	1.3 lbs [589.67 g]



Features:

- Dual Band L1/L2
- MIL-STD-810
- N-type Female
- US 4 hole or NATO 3/6 hole pattern
- 20 dBi Gain, 3 dB Noise Figure
- Rugged, low-profile construction
- High 30 dB Out of Band Rejection
- TAA Compliant

Applications:

- GPS L1/L2
- Military Vehicles
- Unmanned Vehicles/Vessels
- Autonomous Vehicles
- Rugged, Harsh, Hostile Environments

Fairview Microwave
 301 Leora Ln., Suite 100
 Lewisville, TX 75056
 Tel: 1-800-715-4396 / (972) 649-6678
 Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

Environmental Specifications

Temperature

Operating Range

-40 to +71 deg C

Storage Range

-40 to +85 deg C

Humidity

MIL-STD-810E, Method 507.3 Procedure III

Shock

MIL-STD-810F, Method 516.5 Procedure I

Vibration

MIL-STD-810F, Method 514.5 Category 24

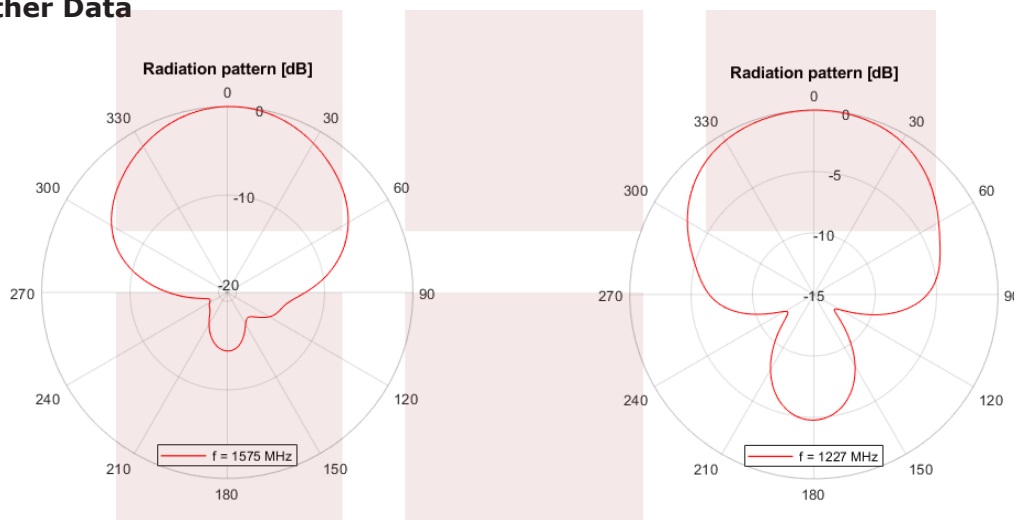
Altitude

20,000 meters

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:



Active GPS Antenna Dual Band L1/L2 N-Type Female, MIL-STD-810, TAA Compliant from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Active GPS Antenna Dual Band L1/L2 N-Type Female, MIL-STD-810, TAA Compliant FMANGPS1017](#)

URL: <https://www.fairviewmicrowave.com/active-gps-antenna-dual-band-l1-l2-n-type-female-mil-std-810-taa-compliant-fmangps1017-p.aspx>

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