

## 31.5 dBi Active GPS Magnet Mount Antenna RHCP 1575 MHz, RG174 SMA Male IPX6

Fairview Microwave's Active GNSS Antenna FMANGPS1012 is Right Hand Circular Polarized with an integrated Neodymium Rare Earth Magnet for a secure mount. The FMANGPS1012 is an active GPS L1 band antenna with 31.5 dBi Gain. These Magnet Mount active GNSS antenna units are ideally suited for use on vehicles where low profile, low drag, non-penetrating style antennas are needed.

Our GNSS antenna specialists are ready and available to answer any questions you may have on the FMANGPS1012. This high quality SMA male antenna meets GPS L1 requirements by operating in the 1574 MHz to 1577 MHz frequency range.

The FMANGPS1012 GNSS antenna series from Fairview Microwave are designed for mobile, vehicle, or fleet services to receive GNSS signals from satellite constellations to triangulate geolocations for navigation, tracking, and surveying.

### Configuration

Design	GPS Active
Gain	31.5
Polarization	RHCP
Cable Type	RG174
Connector Type	SMA Male
Number of Ports	1

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	1,574		1,577	MHz
Input VSWR			1.5:1	
Output VSWR			2:1	
Impedance		50		Ohms
Gain		31.5		dBi
Gain Variation		±5		dBi
Operating DC Voltage	3		5	Volts
Current	5.5	8.5	11.5	mA

### Specifications by Frequency

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	1.574-1.577					GHz

### Mechanical Specifications

<b>Size</b>	
Length	1.5 in [38.1 mm]
Width	1.3 in [33.02 mm]
Height	0.5 in [12.7 mm]
Weight	0.14 lbs [63.5 g]

### Environmental Specifications

Ingress Protection	IPX6
--------------------	------



### Features:

- SMA Male
- Right Hand Circular Polarized
- 28 dB LNA w/ low 1.5 dB Noise Figure
- Neodymium Rare-Earth Magnet
- IPX6 Rated

### Applications:

- GPS L1
- High Accuracy Global Positioning
- Precision Agriculture, Mining and Construction
- Law Enforcement and Public Safety
- Vehicle Fleet Management

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](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

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

**Plotted and Other Data**

Notes:

31.5 dBi Active GPS Magnet Mount Antenna RHCP 1575 MHz, RG174 SMA Male IPX6 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: [31.5 dBi Active GPS Magnet Mount Antenna RHCP 1575 MHz, RG174 SMA Male IPX6 FMANGPS1012](#)

URL: <https://www.fairviewmicrowave.com/gps-active-antenna-1.574-to-1.577-ghz-31.5-dbi-gain-sma-male-connector-rhcp-fmangps1012-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

