Fairview Microwave
an INFINITᴇ brand

GPS Passive Antenna, 1597 MHz to 1607 MHz, -3dBic, Linear Polarization SMA mount

Fairview Microwave's Active GNSS Antenna FMANGPS1006 is Linearly polarized and conforms to MIL-STD-810G. The FMANGPS1006 is an active GPS L1 band antenna with -3 dBic Gain. These Mil Spec active GNSS antenna units are ideally suited for use in rugged terrain where low profile, low drag, bullet style antennas are needed.

Our GNSS antenna specialists are ready and available to answer any questions you may have on the FMANGPS1006. This high quality multi-standard SMA male antenna meets GPS L1, GALLILEO E1 and GLONASS G1 requirements by operating in the 1559MHz to 1610MHz frequency range.

The FMANGPS1006 GNSS antenna series from Fairview Microwave are designed for portable, hand-held, or mobile devices which receive GNSS signals from satellite constellations to triangulate geolocations for navigation, tracking, surveying, mobile network timing, or munitions targeting. Order your Passive GNSS FMANGPS1006 Antenna from Fairview Microwave today. There is no MOQ (minimum order quantity) and the product ships same day from our warehouse.

Features:

- Low Profile
- MIL-STD-810G
- Linearly Polarized
- SMA Male
- IP67 Rated
- Operating Frequency Range 1559 MHz to 1610 MHz

Applications:

- Military, Law Enforcement, or Private Security
- Hand-held/Portable Devices
- Asset and Fleet Tracking
- Scientific Instrumentation
- Oil, Gas, and Mining Industries
- M2M Applications
- GPS L1, GALLILEO E1, AND GLONASS

Configuration

Design	GPS/GNSS
Polarization	Linear, Vertical
Connector Type	SMA Male

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	1,597		1,607	MHz
Output VSWR			2.5:1	
Impedance		50		Ohms
Gain	-3			dBic

Mechanical Specifications

Radome Material	Polyetherimide

Size

Length	1.75 in [44.45 mm]
Width	0.6 in [15.24 mm]
Height	0.6 in [15.24 mm]
Weight	0.18 lbs [81.65 g]

Environmental Specifications

Temperature

Operating Range	-40 to +71 deg C
Storage Range	-40 to +85 deg C
Environment	MIL-STD-810G
Humidity	MIL-STD-810G, Meth 507.5, Proc. II, 95% Relative Humidity
Shock	MIL-STD-810G
Vibration	MIL-STD-810G
Corrosion	MIL-STD-810G, Meth 509.5, 4 x 24 h
Altitude	MIL-STD-810G

Environmental Specification Notes:
Operating Temp MIL-STD-810G, Meth. 501.5 & 502.5, Proc.II. Storage Temp MIL-STD-810G, Meth. 501.5 & 502.5, Proc. I.

Compliance Certifications (see product page for current document)

Plotted and Other Data
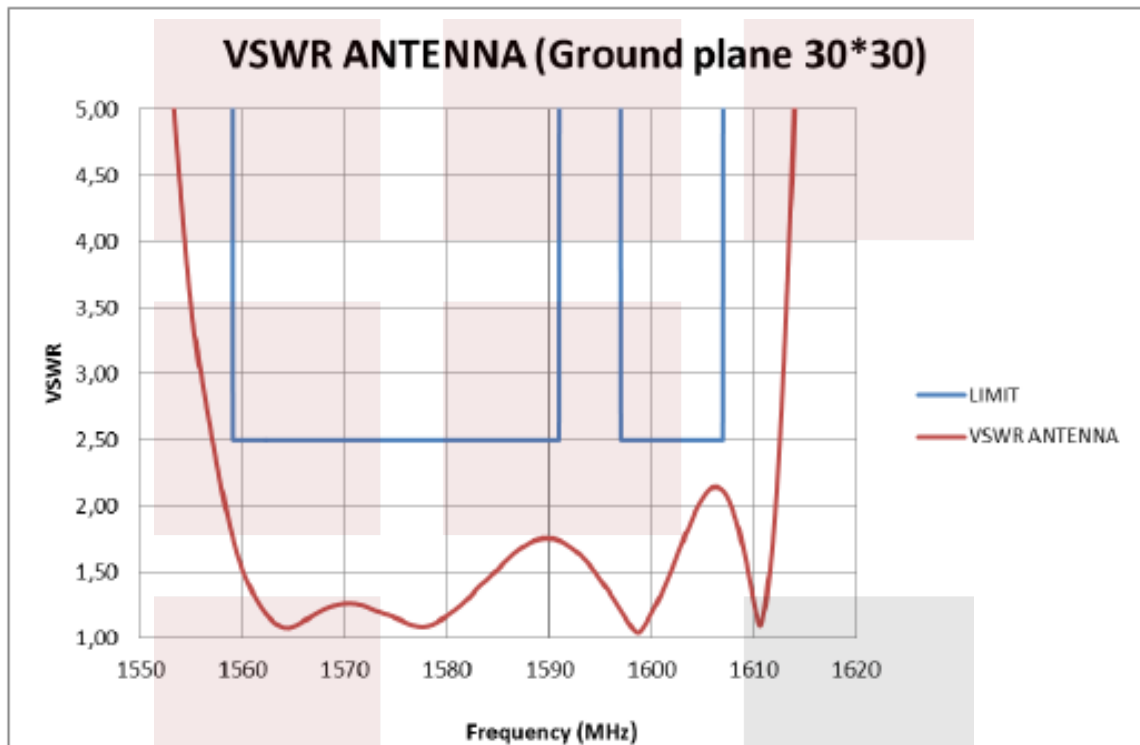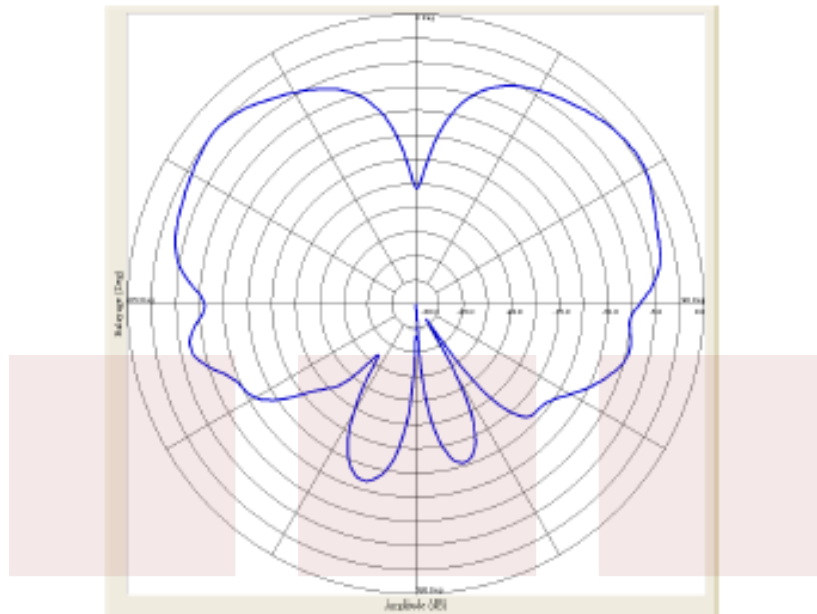Notes:

ELECTRICAL PERFORMANCES

Figure 1: VSWR

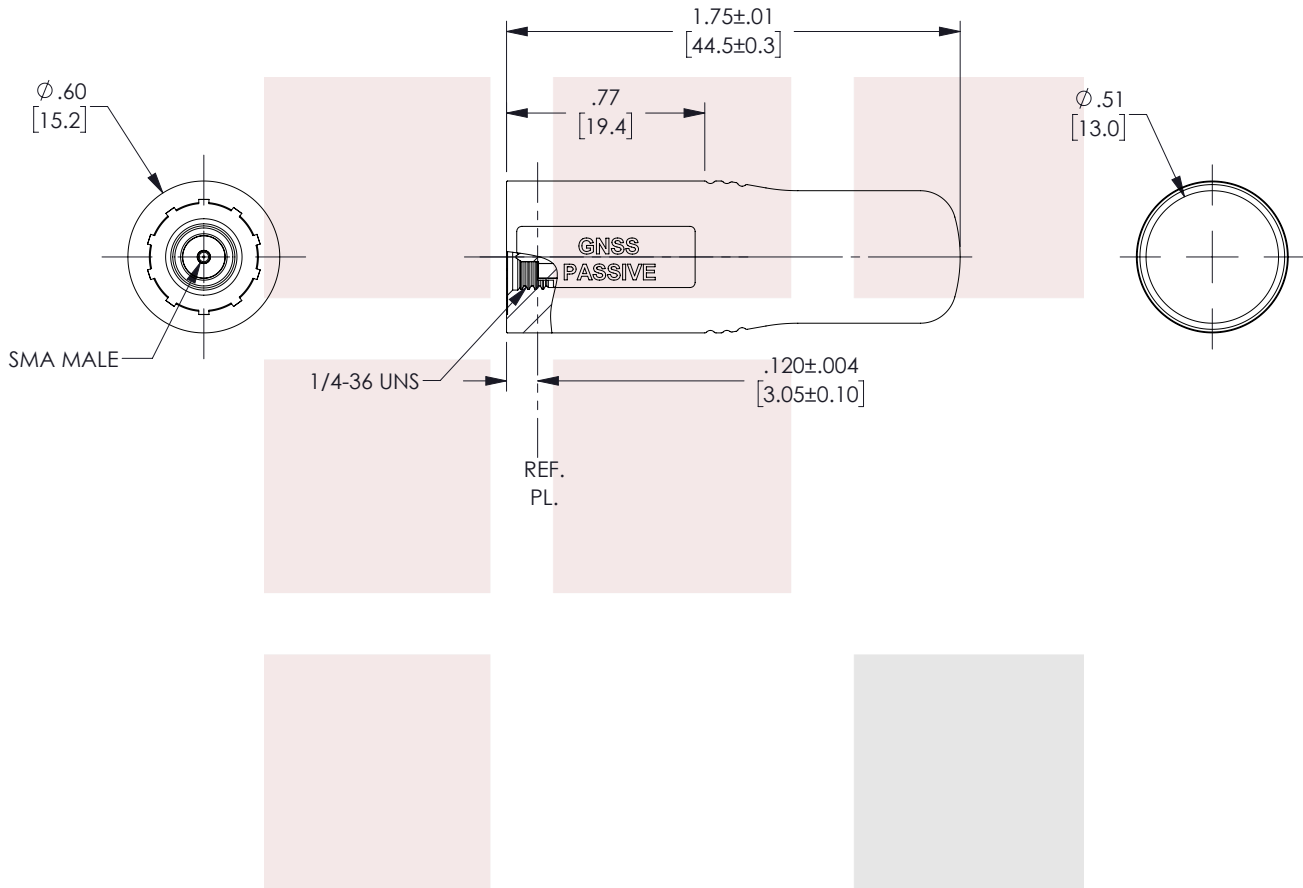Figure 2: Radiation pattern on ground plane at 1575 MHz (RHCP)

GPS Passive Antenna, 1597 MHz to 1607 MHz, -3dBic, Linear Polarization SMA mount 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: GPS Passive Antenna, 1597 MHz to 1607 MHz, -3dBic, Linear Polarization SMA mount FMANGPS1006

URL: https://www.fairviewmicrowave.com/dbic-gps-gnss-antenna-1597-1607-mhz-sma-connector-fmangps1006-p.aspx

301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	07/21/2022	KHIETPAS

Ø .60
[15.2]

1.75±.01
[44.5±0.3]

.77
[19.4]

Ø .51
[13.0]

GNSS PASSIVE

SMA MALE

1/4-36 UNS

.120±.004
[3.05±0.10]

REF.
PL.

Fairview Microwave
an INFINITE brand

TITLE

GPS Passive Antenna, 1597 MHz to 1607 MHz, -3dBic, Linear Polarization SMA mount

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

.X = ±.2 [5.08]   FRACTIONS
.XX = ±.02 [.51]   ± 1/32
.XXX = ±.005 [.13]   ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5%L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION

SHEET	OF
1	1

SCALE

N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	KGLEBOVA	FMANGPS1006	A

T-Rev.D

301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689