

Multiband GNSS (GPS/GLONASS/BEIDOU) FPC Antenna



AFAG4330-SG3



43.0 x 30.0 mm
RoHS/RoHS II Compliant
MSL = Not Applicable

Features

- Multiband GPS/GLONASS/BEIDOU/Galileo coverage
- Low profile
- Flexible structure
- Omni-directional pattern
- Linear polarization
- RF coax cable, IPEX connector

Applications

- GPS/GLONASS/Galileo/Beidou applications
- IoT
- M2M
- Remote technology monitoring
- Geofencing
- Surveying and mapping systems
- Logistics

Electrical Specifications

Parameters	Specifications
Operating Frequency	1550-1620MHz
VSWR	≤ 2.5
Impedance	50 Ω
Peak Gain	6.3 dBi
Average Gain	1~2 dBi (typ.)
Azimuth	Omni-directional
Polarization	Vertical
Installation mode	Surface-pasting
Operating temperature	-40°C to 85°C
Power Capacity	3W

Note: Don't paste on the surface of metal.

Frequency change with different material and thickness of the shell.

Multiband GNSS (GPS/GLONASS/BEIDOU) FPC Antenna

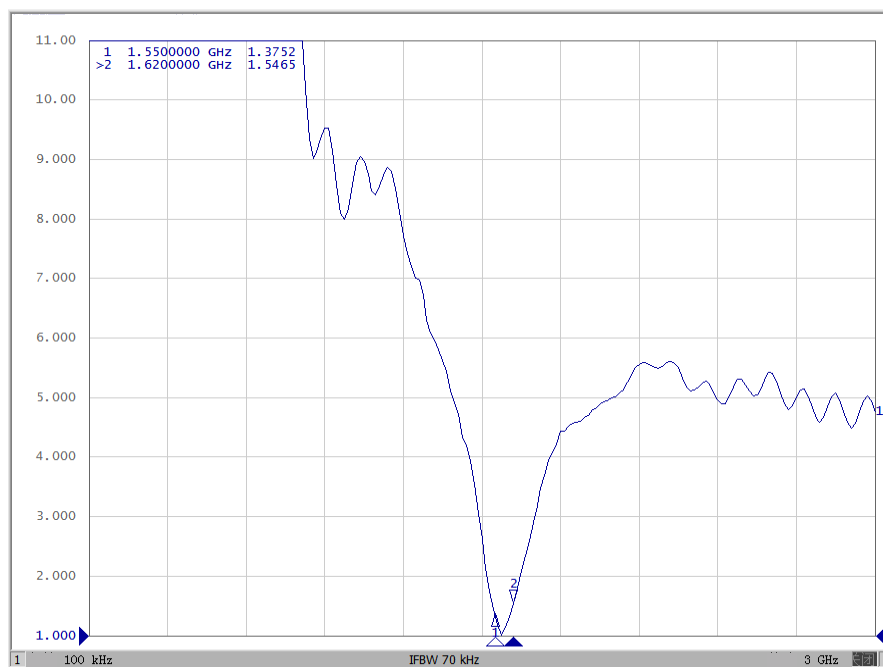


AFAG4330-SG3



43.0 x 30.0 mm
RoHS/RoHS II Compliant
MSL = Not Applicable

Return Loss Characteristics



Multiband GNSS (GPS/GLONASS/BEIDOU) FPC Antenna

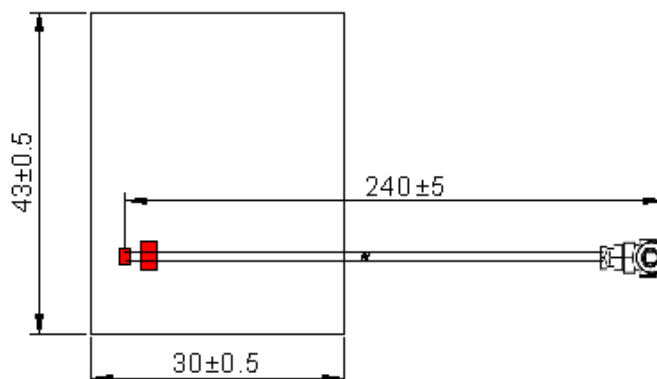


AFAG4330-SG3



43.0 x 30.0 mm
RoHS/RoHS II Compliant
MSL = Not Applicable

Product Dimensions



Unit: mm

Description	Specification
Antenna Size	43 x 30 mm
Material	FPC
RF Cable	$\Phi 1.13$ mm (L= 240 ± 5 mm)
RF Connector	I-PEX
Adhesive Tape	3M 467MP

Multiband GNSS (GPS/GLONASS/BEIDOU) FPC Antenna

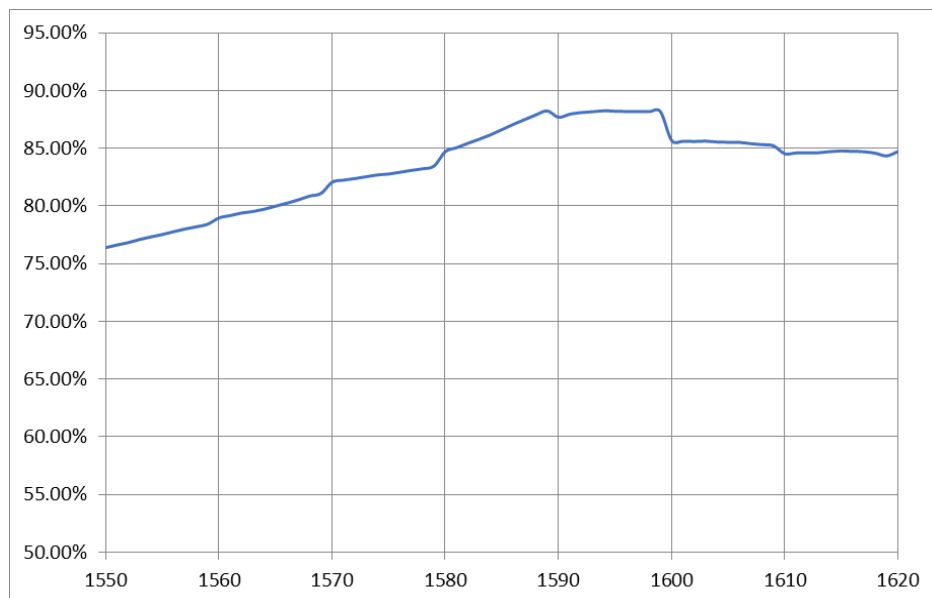


AFAG4330-SG3



43.0 x 30.0 mm
RoHS/RoHS II Compliant
MSL = Not Applicable

Radiation Efficiency



Frequency (MHz)	1561	1575	1602
Maximum gain (dB)	5.52	5.78	6.10
Radiation Efficiency(%)	79.18%	82.77%	85.59%

Multiband GNSS (GPS/GLONASS/BEIDOU) FPC Antenna



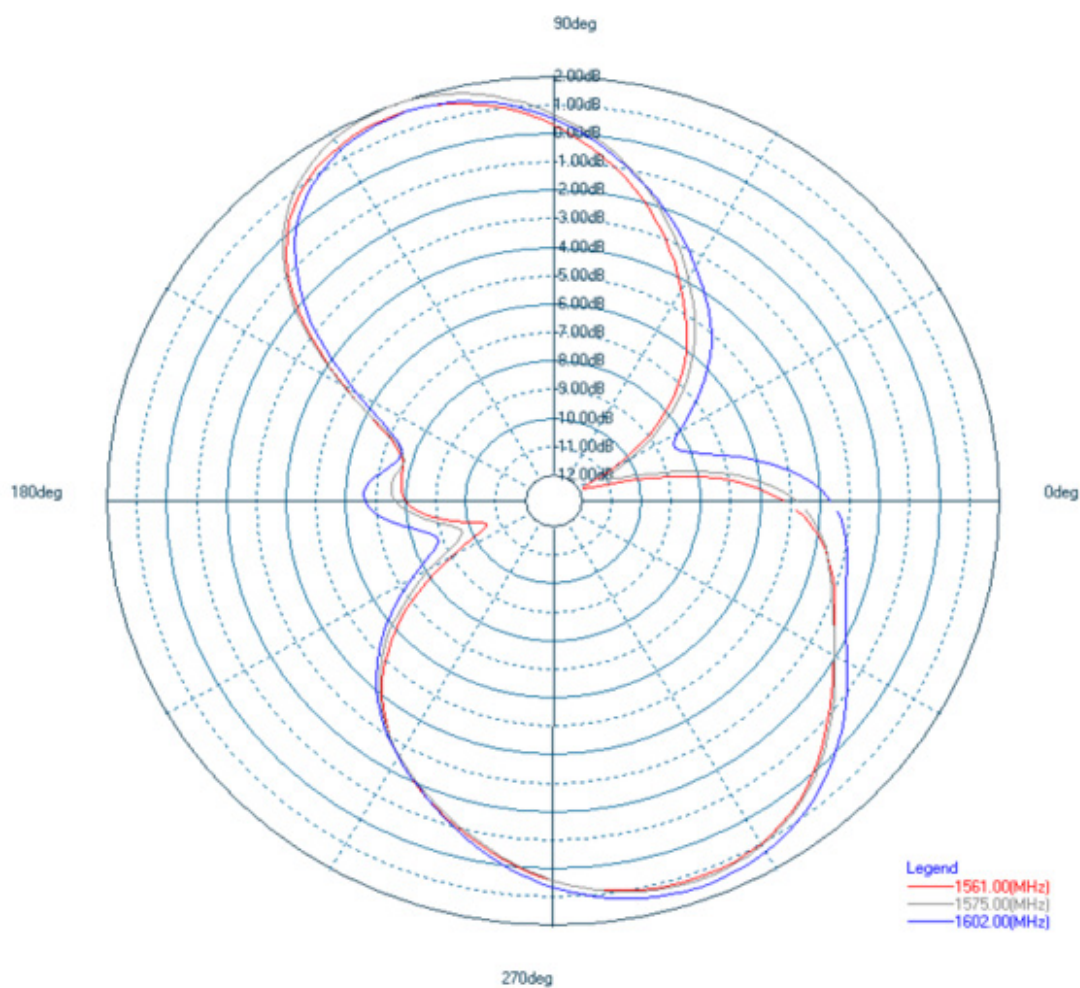
AFAG4330-SG3



43.0 x 30.0 mm
RoHS/RoHS II Compliant
MSL = Not Applicable

Radiation Pattern

XY - Plane



Multiband GNSS (GPS/GLONASS/BEIDOU) FPC Antenna



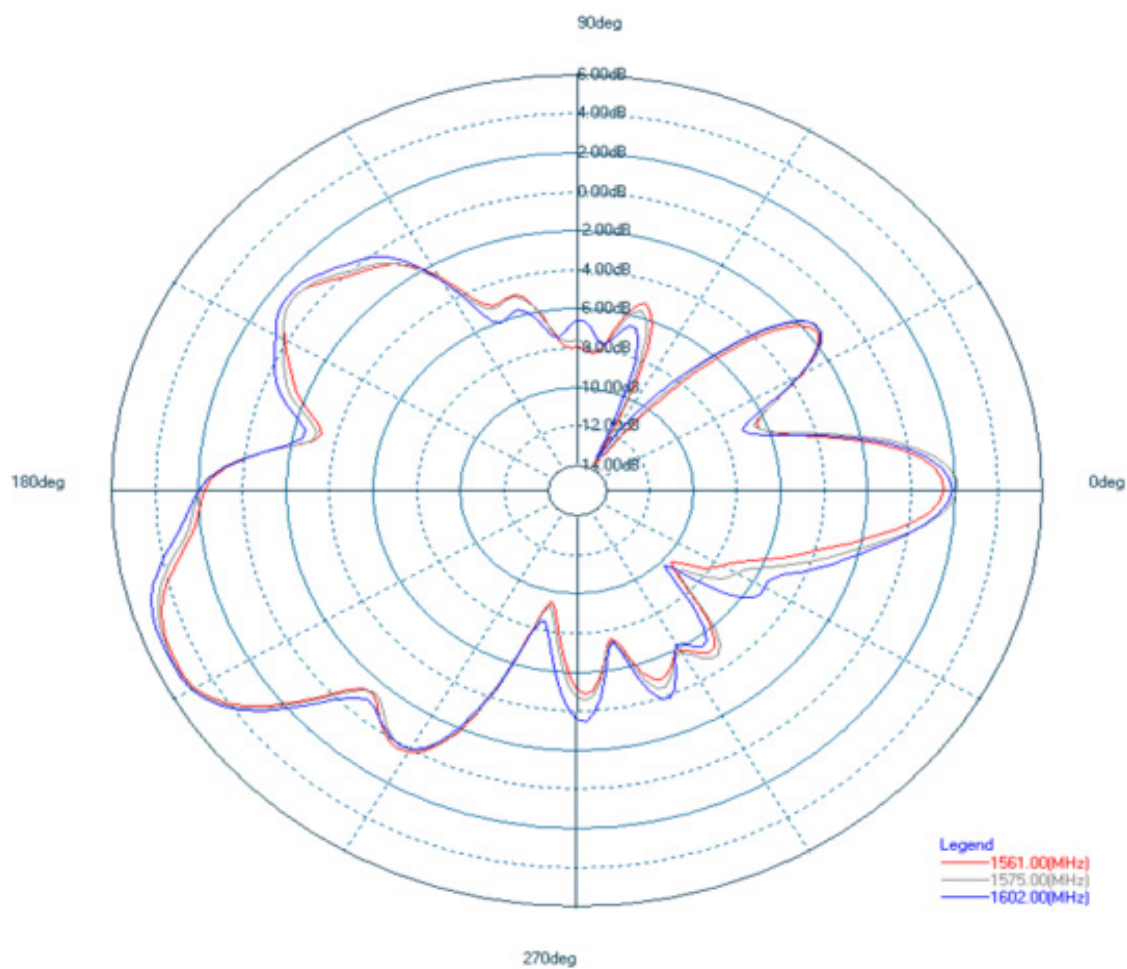
AFAG4330-SG3



43.0 x 30.0 mm
RoHS/RoHS II Compliant
MSL = Not Applicable

Radiation Pattern

XZ - Plane



Multiband GNSS (GPS/GLONASS/BEIDOU) FPC Antenna



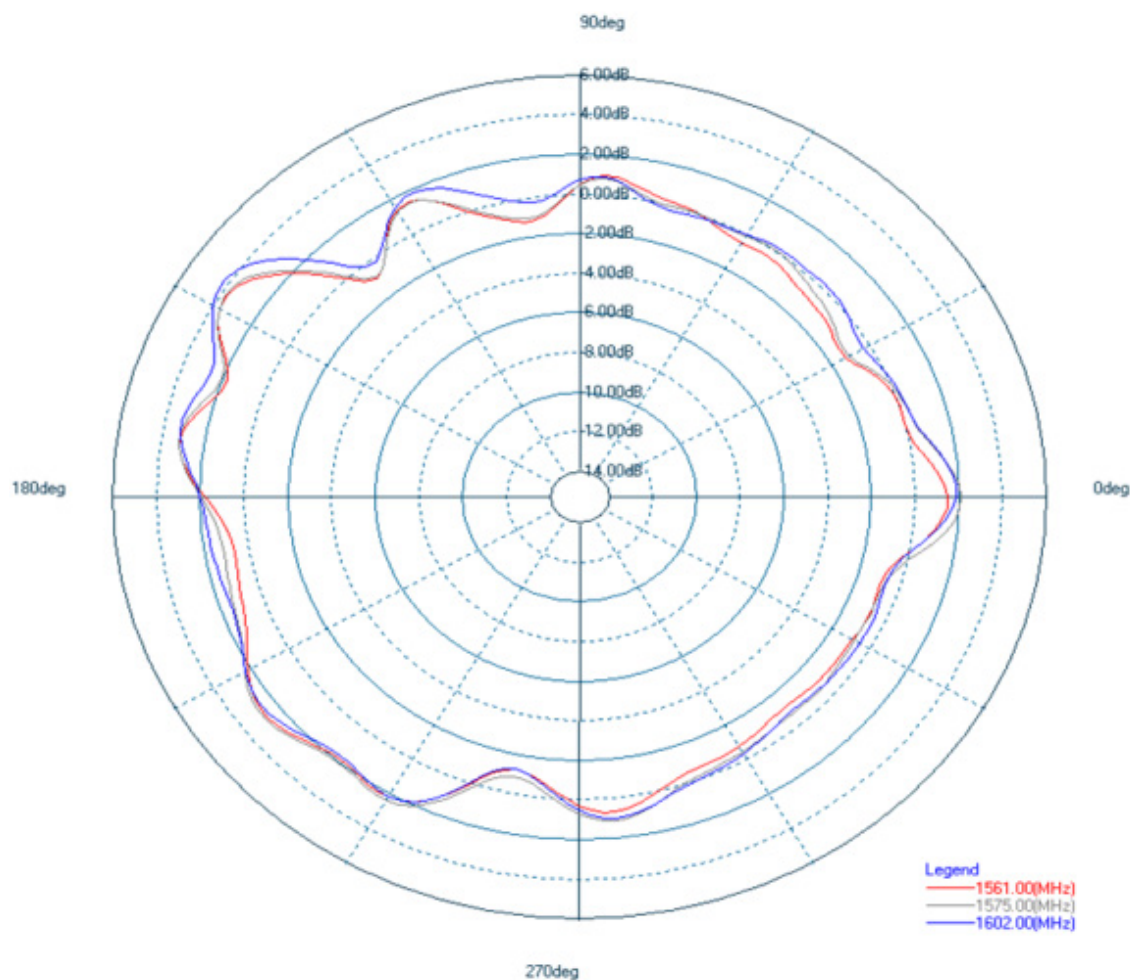
AFAG4330-SG3



43.0 x 30.0 mm
RoHS/RoHS II Compliant
MSL = Not Applicable

Radiation Pattern

YZ - Plane



Multiband GNSS (GPS/GLONASS/BEIDOU) FPC Antenna



AFAG4330-SG3



43.0 x 30.0 mm
RoHS/RoHS II Compliant
MSL = Not Applicable

Packaging

Each box is equipped with 2,000 antennas, 40 antennas are placed in a grid, the size of carton is 630 x 460 x 105 mm.

ATTENTION: Abracon LLC's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependent Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon LLC is required. Please contact Abracon LLC for more information.



5101 Hidden Creek Ln Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

REVISED: 11-4-19

ABRACON IS
ISO9001-2015
CERTIFIED

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[ABRACON:](#)

[AFAG4330-SG3](#)