

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.

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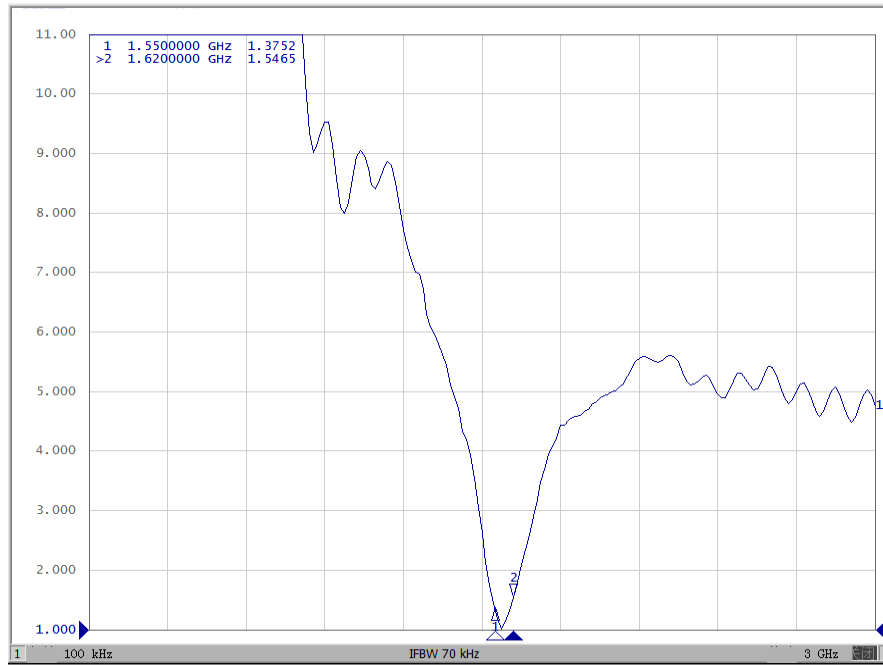


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Return Loss Characteristics



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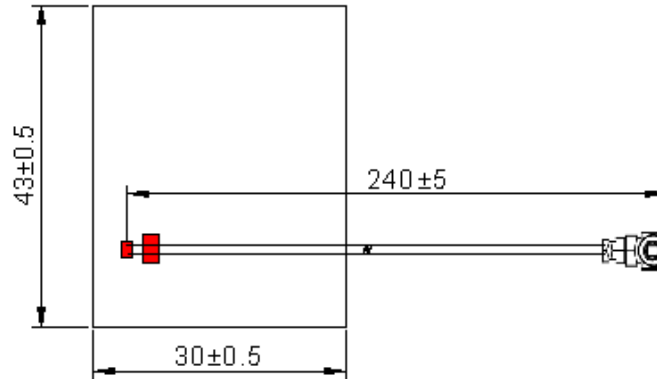


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Product Dimensions



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

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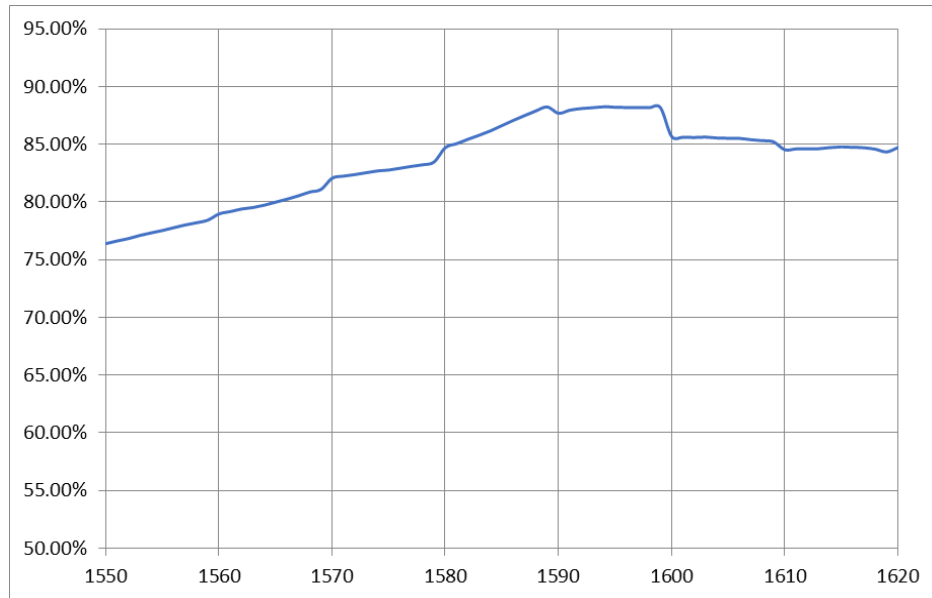


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Radiation Efficiency



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

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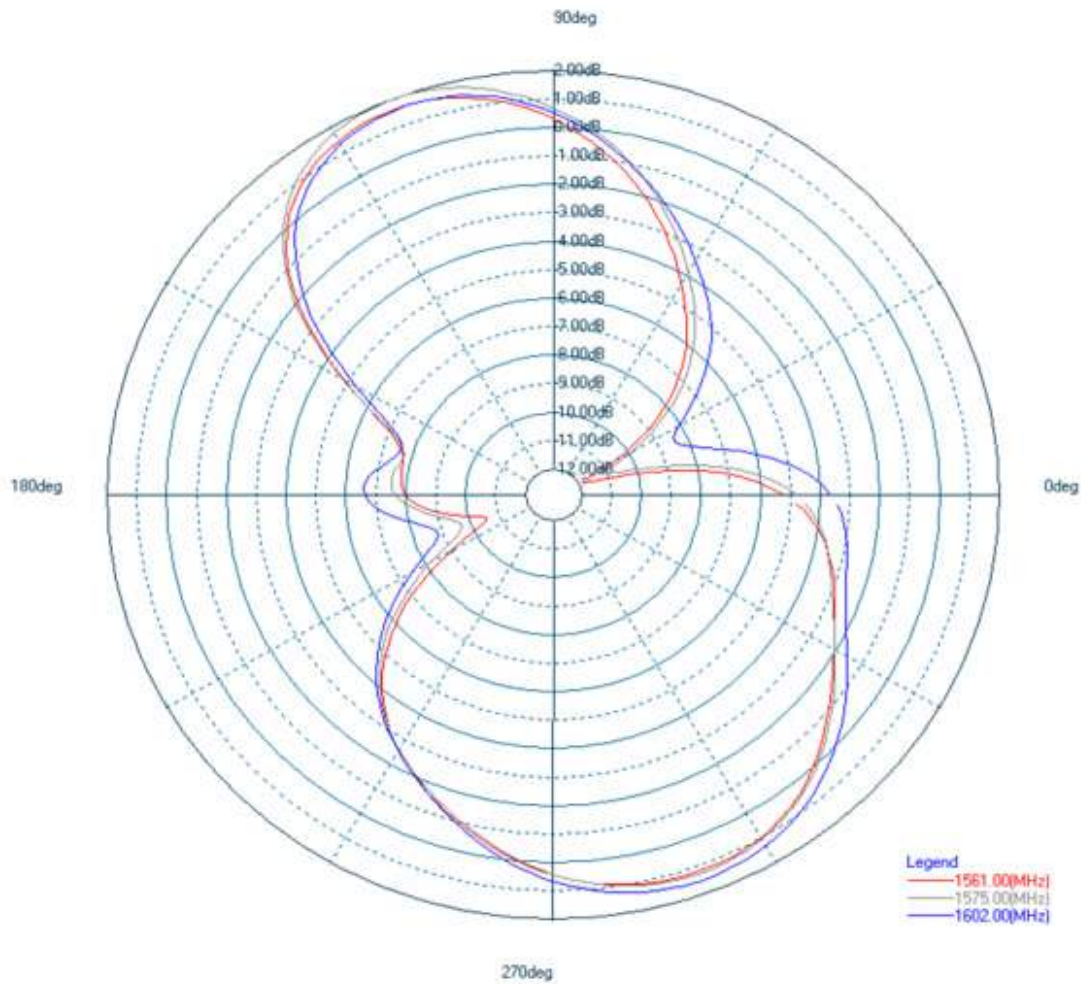
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Radiation Pattern

XY - Plane



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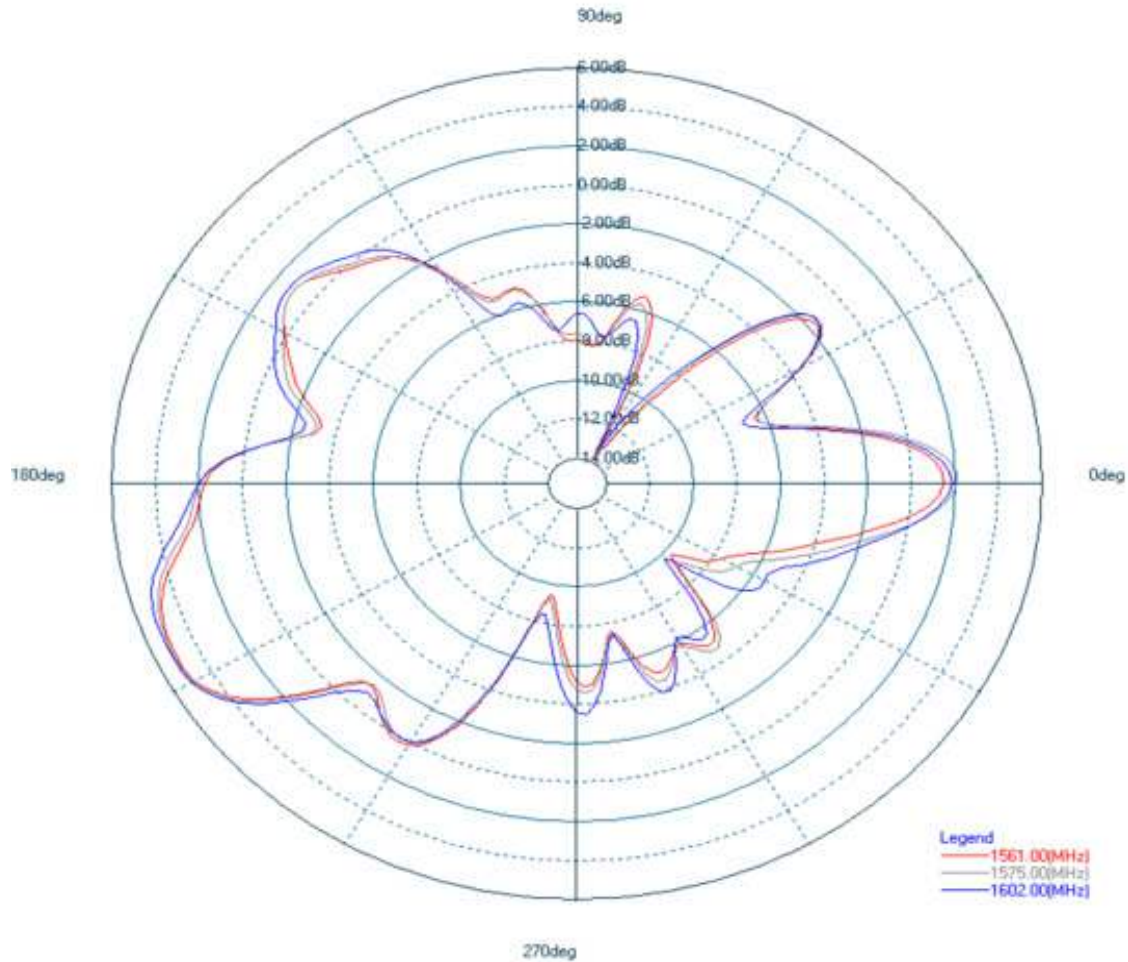
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Radiation Pattern

XZ - Plane



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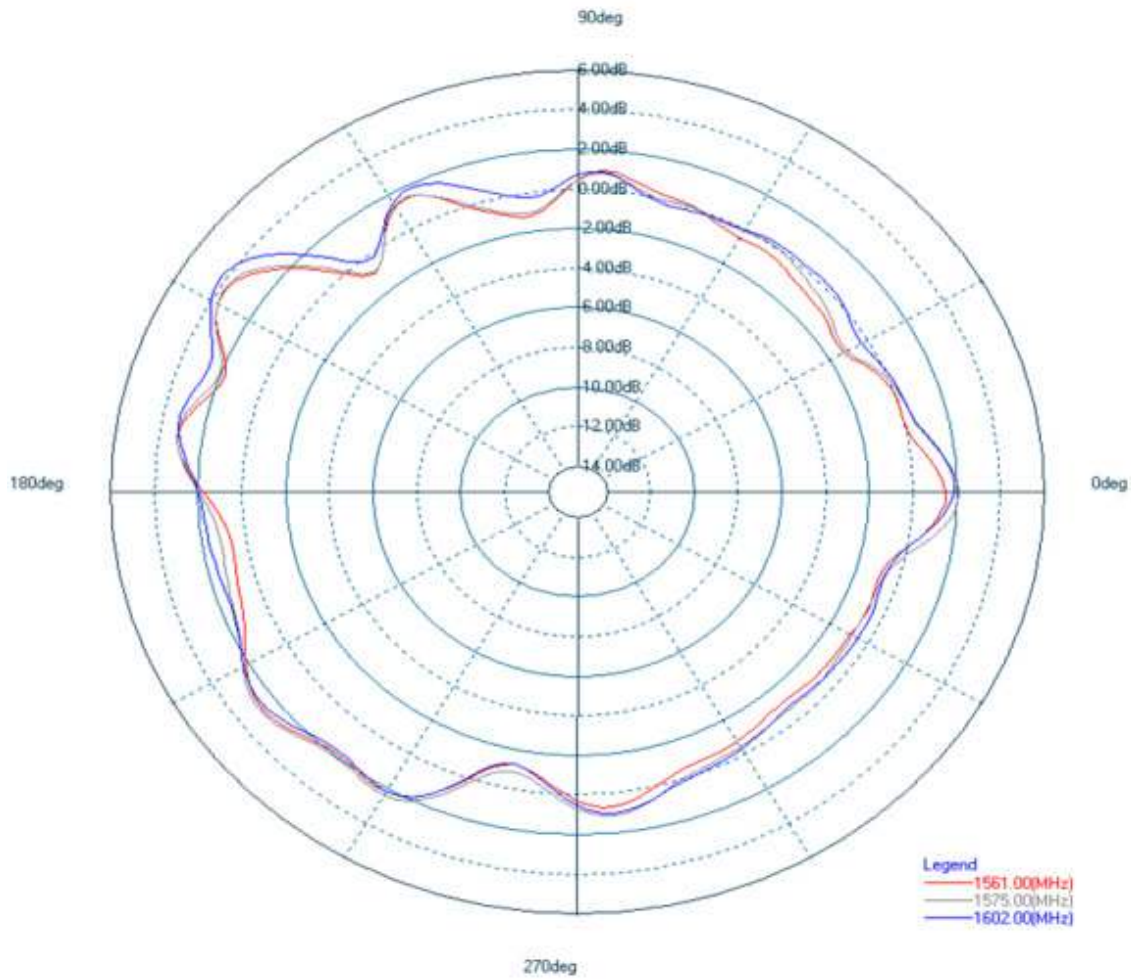
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Radiation Pattern

YZ - Plane



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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.

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