Multiband GNSS (GPS/GLONASS/BEIDOU) FPC Antenna

AFAG4330-SG3

Features

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



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

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	50Ω
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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Multiband GNSS (GPS/GLONASS/BEIDOU) FPC Antenna 43.0 x 30.0 mm AFAG4330-SG3 (Pb) **RoHS/RoHS II Compliant** MSL = Not Applicable **Return Loss Characteristics** 11.00 1 1.5500000 GHz 1.3752 >2 1.6200000 GHz 1.5465 10.00 9.000 8.000 7.000 6.000 5.000 4.000 3.000 2.000

BW 70 kH



1.000

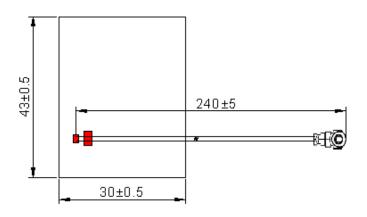
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Product Dimensions



Unit: mm

Description	on Specification	
Antenna Size	43 x 30 mm	
Material	FPC	
RF Cable	RF Cable Φ1.13mm (L=240±5 mm)	
RF Connector	I-PEX	
Adhesive Tape	3M 467MP	



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ABRACON IS ISO9001-2015 CERTIFIED



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(Pb)

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Pb

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

Radiation Efficiency

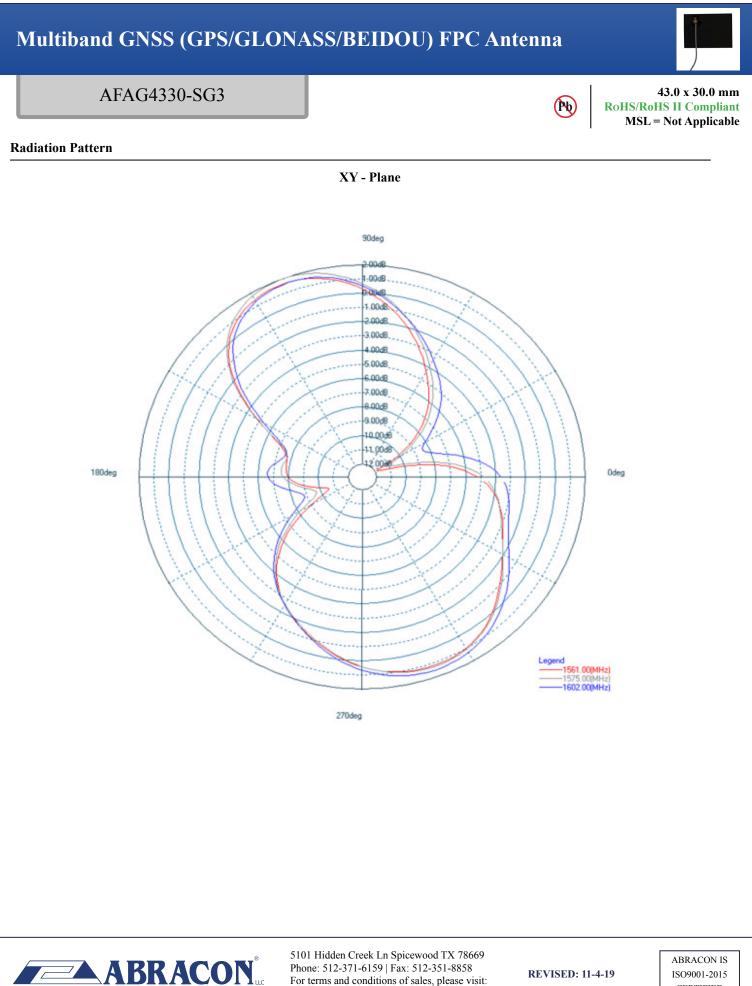
95.00% 90.00% 85.00% 80.00% 75.00% 70.00% 65.00% 60.00% 55.00% 50.00% 1610 1620 1550 1560 1570 1580 1590 1600

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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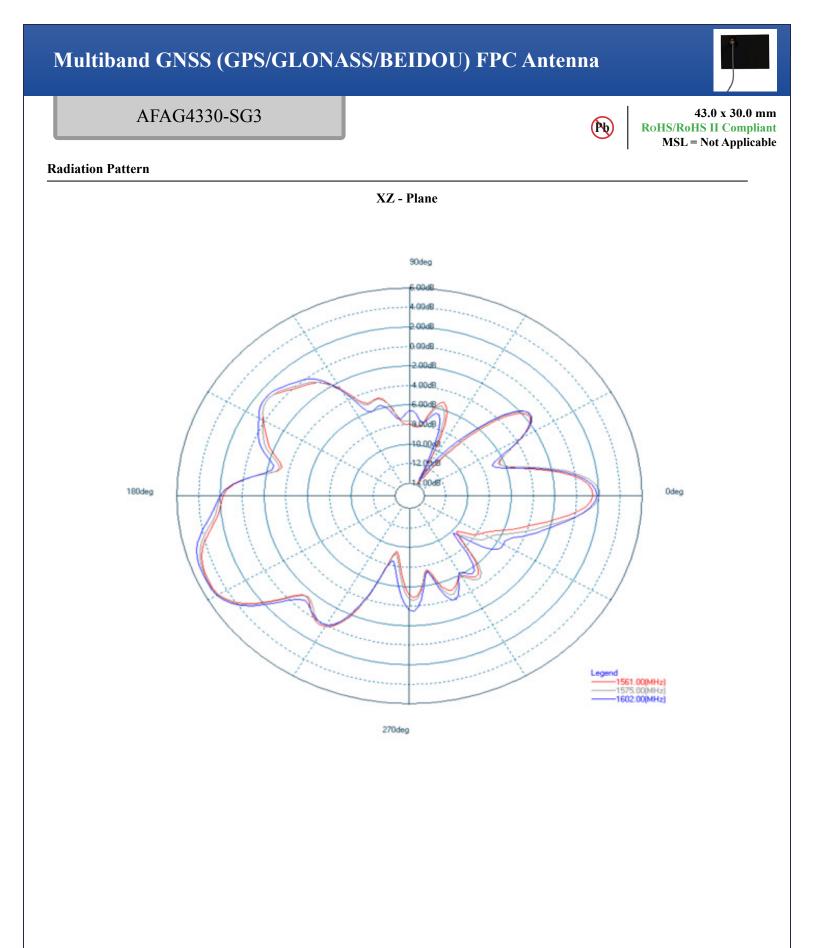
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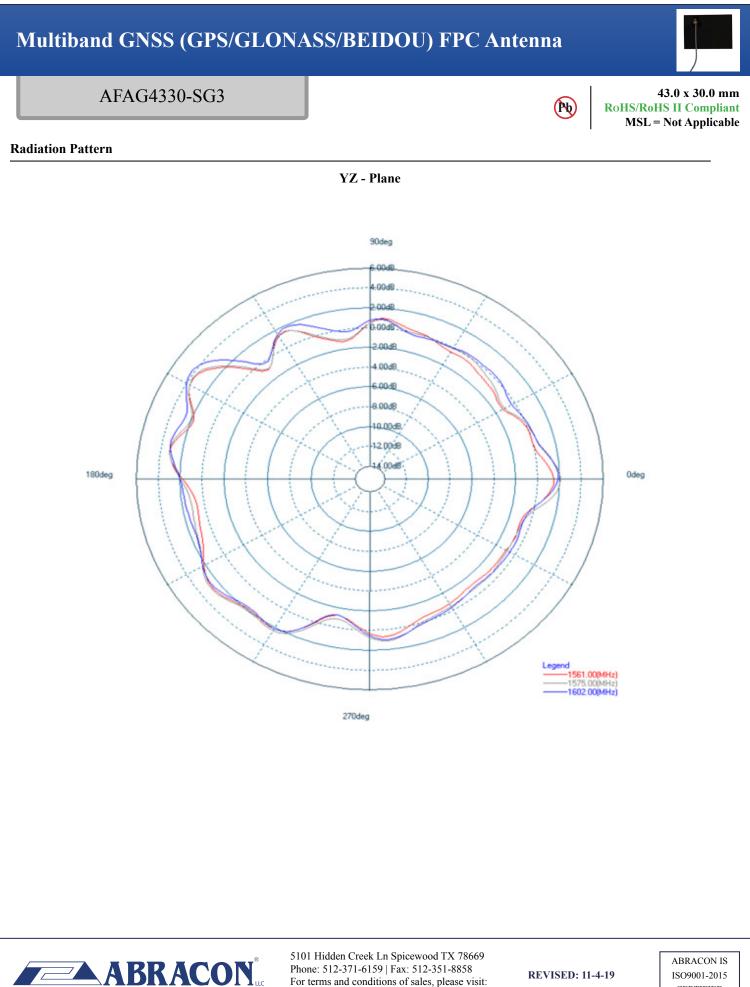
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l	AFAG4330-SG3	Pb	43.0 x 30.0 mm RoHS/RoHS II Compliant MSL = Not Applicable

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.

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