



Smart Technology. Delivered.

# 450 MHz 5 dBd Gain Omnidirectional Antenna FG4505W



## FIBERGLASS BASE STATION ANTENNAS FEATURE INDUSTRY LEADING DESIGN COMPONENTS THAT PERFORM IN EXTREME CONDITIONS

The FG4505W omnidirectional base station antenna incorporates a collinear design that is enclosed in high density fiberglass, which is covered with a protective ultraviolet inhibiting coating. The radiating elements are carefully phased to provide maximum gain in the horizontal plane. The mounting sleeves are tuned to eliminate RF currents from the transmission line, resulting in a “cold” sleeve that allows for greater freedom in mounting. The antenna’s high quality and well-focused beam provides the best efficiency with highest gain.

### FEATURES

- High gain 5 dBd (7dBi)
- Every FG fiberglass base antenna is tested on a network analyzer before shipping to assure the best performance
- Custom UV protection coating
- Durable gold anodized sleeve and cap with N-female connector
- FedEx/UPS Shippable

### MARKETS

- Omnidirectional outdoor antenna applications used in commercial, public safety, and government applications around the globe
- Typical applications include land based and marine radio and voice and data transmission

### ELECTRICAL SPECIFICATIONS

Model	FG4505W
Frequency Range (MHz)	450 - 470 MHz
Peak Gain	7 dBi
Elevation Beamwidth at Half-Power	34 Deg
Azimuth Beamwidth at Half-Power	360 Deg

### MECHANICAL SPECIFICATIONS

Height	75 in (190.5 cm)
Diameter	1.31 in (3.33 cm)
Weight	2.34 lbs (1.06 kg)
Operational Temp	-31° F to +176° F -35° C to +80° F
Storage Temp	-31° F to +176° F -35° C to +80° F

### TECHNICAL DATA

Pattern	Omni-Directional
Maximum Power	100 Watts
Nominal	50 Ohm
Polarization	Vertical
VSWR	2.0:1
Termination	N-Female
Mounting Information	FM2 Optional
Cable Length	N/A
Outdoor Rated	Yes
Color	White Radome/Gold Sleeve
Radome Material	UV Treated Fiberglass

Americas: +1.847 839.6907  
IAS-AmericasEastSales@lairdtech.com

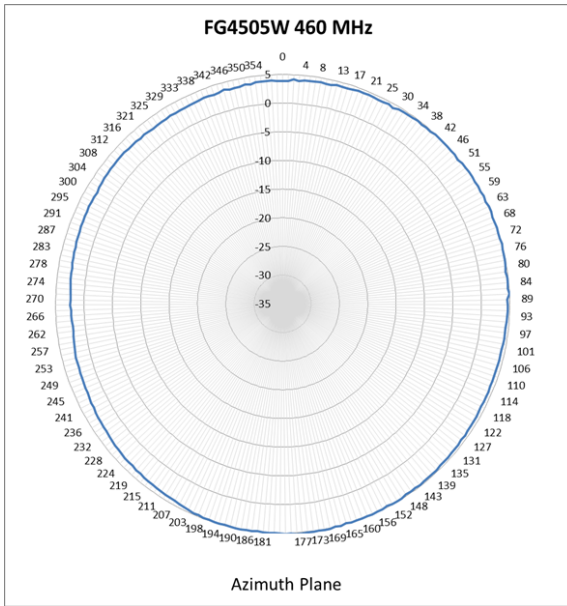
Europe: +44.1628.858941  
IAS-EUSales@lairdtech.com

Asia: +86.21.5855.0827.127  
IAS-AsiaSales@lairdtech.com

[www.lairdtech.com](http://www.lairdtech.com)

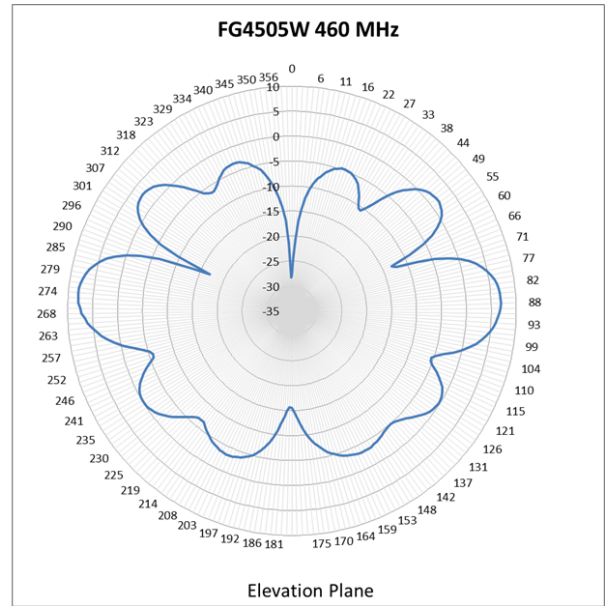
# 450 MHz 5 dBd Gain Omnidirectional Antenna FG4505W

**Azimuth  
450 - 470 MHz**



Azimuth	Avg. Gain	Max Gain
Freq. 1	460 MHz 2.2 dBi	5.2dBi

**Elevation  
450 - 470 MHz**



Azimuth	Avg. Gain	Max Gain
Freq. 1	460 MHz 28.25 dBi	8dBi

Americas: +1.847 839.6907  
IAS-AmericasEastSales@lairdtech.com

Europe: +44.1628.858941  
IAS-EUSales@lairdtech.com

Asia: +86.21.5855.0827.127  
IAS-AsiaSales@lairdtech.com

[www.lairdtech.com](http://www.lairdtech.com)

ANT-DS-FG4505W 0115

Any information furnished by Laird Inc. and its agents is believed to be accurate and reliable. All specifications are subject to change without notice. Responsibility for the use and application of Laird materials rests with the end user, since Laird and its agents cannot be aware of all potential uses. Laird makes no warranties as to the fitness, merchantability or suitability of any Laird materials or products for any specific or general uses. Laird shall not be liable for incidental or consequential damages of any kind. All Laird products are sold pursuant to the Laird Terms and Conditions of sale in effect from time to time, a copy of which will be furnished upon request. © Copyright 2015 Laird Inc. All Rights Reserved. Laird, Laird Technologies, the Laird Logo, and other marks are trade marks or registered trade marks of Laird Inc. or an affiliate company thereof. Other product or service names may be the property of third parties. Nothing herein provides a license under any Laird or any third party intellectual property rights.