FG4500

Fiberglass Omnidirectional Antennas
450-470 MHz

Laird Technologies' Fiberglass Base Station antennas are collinear designs enclosed in a high-density fiberglass, which is covered with a protective ultraviolet inhibiting coating.

The radiating elements are made from high efficiency copper and 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 allowing great freedom in mounting. This high quality and well-focused beam provides the highest gain and best efficiency.

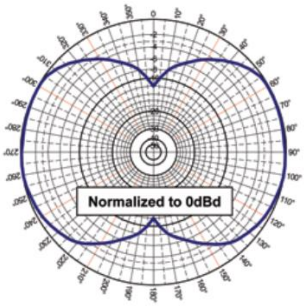
FEATURES AND BENEFITS

- Every FG fiberglass base antenna is tested on a network analyzer before shipping to assure the best performance.
- Special UV Treated - Stands up to the sun
- Durable gold anodized sleeve and cap with N Female connector
- Custom tuning available
- FedEx/UPS Shippable

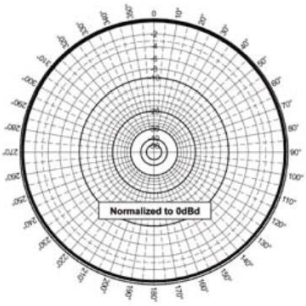
ELECTRICAL SPECIFICATIONS	
Operating Frequency (MHz)	450-470
VSRW	<1.5:1 (20 MHz Bandwidth), <2.0:1 (36 MHz Bandwidth)
Gain (dBi)	2.15
Nominal Impedance (Ohms)	50
Max Power - Ambient 25°C (W)	100
Polarization	Vertical
Pattern	Omnidirectional
Half-Power Beamwidth (Elevation°/Azimuthal°)	70°/360°
Connector	N-Female connector

MECHANICAL SPECIFICATIONS	
Dimensions – diameter x height – mm (inches)	33.3 x 510 (1.31 x 20.1)
Weight – kg (lbs.)	0.42 (0.92)
Operating Temperature, °C (°F)	-30° to +85° (-22° to 185°)
Rated Wind Velocity – kph (mph)	210 (125)
Rated Wind Velocity (with 0.5" radial ice) – kph (mph)	137 (85)
Equivalent Flat Plate Area – sq. meter (sq. ft.)	0.069 (0.2274)
Mounting Information	FM2 Mounting Kit (Sold separately)
Lightning Protection	DC ground

RADIATION PATTERNS



Elevation Pattern (Y, Z, or H-plane)



Azimuthal Pattern (Y, Z, or E-plane)

Americas: +1.847 839.6925
IAS-AmericasSales@lairdtech.com
Europe: +44.1628.858941
IAS-EUSales@lairdtech.com
Asia: IAS-AsiaSales@lairdtech.com
Middle East and Africa:
+44.1628.858941
IAS-MEAUSales@lairdtech.com
https://connectivity.lairdtech.com

RoHS

Laird warrants to the original end user customer of its products that its products are free from defects in material and workmanship. Subject to conditions and limitations Laird will, at its option, either repair or replace any part of its products that prove defective because of improper workmanship or materials. This limited warranty is in force for the useful lifetime of the original end product into which the Laird product is installed. Useful lifetime of the original end product may vary but is not to exceed five (5) years from the original date of the end product purchase.

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.

Mouser Electronics

Authorized Distributor

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

Laird Connectivity:
FG4503