





## Omnidirectional Antenna 450-470 MHz

Fiberglass base station antennas feature industry leading design components that perform in extreme conditions. The FG4505W 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 AND BENEFITS

- High gain 7 dBi
- Every antenna is tested on a network analyzer before shipping to ensure the best performance
- Custom UV protection coating
- Durable gold anodized sleeve and cap with N-female connector

ELECTRICAL SPECIFICATIONS		
Frequency Range (MHz)	450 - 470	
VSWR	2.0:1	
Peak Gain (dBi)	7	
Nominal Impedance (Ohms)	50	
Max Power - Ambient 25°C (W)	100	
Polarization	Vertical	
Elevation Beamwidth at Half-Power (Deg)	34	
Azimuth Beamwidth at Half-Power (Deg)	360	
Pattern	Omnidirectional	

MECHANICAL SPECIFICATIONS		
Dimensions – diameter x height – cm (in.)	3.33 x 193.0 (1.31 x 76)	
Weight – kg (lbs.)	1.06 (2.34)	
Radome Material	UV Treated Fiberglass	
Color	White radome/Gold sleeve	

# CONFIGURATION

PART NUMBER	CABLE LENGTH	CONNECTOR	MOUNTING
FG4505W	N/A	N-Female	FM2 Optional

## **RADITION PATTERNS**

### 2700 MHz





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

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

### **TE TECHNICAL SUPPORT CENTER**

USA:	+1 (800) 522-6752
Canada:	+1 (905) 475-6222
Mexico:	+52 (0) 55-1106-0800
Latin/S. America:	+54 (0) 11-4733-2200
Germany:	+49 (0) 6251-133-1999
UK:	+44 (0) 800-267666
France:	+33 (0) 1-3420-8686
Netherlands:	+31(0)73-6246-999
China:	+86 (0) 400-820-6015

#### te.com

TE Connectivity, TE Connectivity (logo) and Every Connection Counts are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

TE 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.

©2021 TE Connectivity. All Rights Reserved.

10/21 Original



