

# FG1523

## Omnidirectional Antenna 152-156 MHz

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

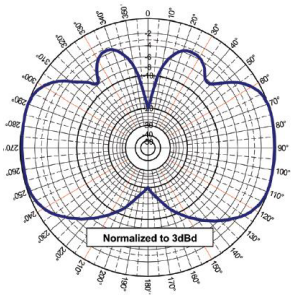
| ELECTRICAL SPECIFICATION | |
|---|---|
| Frequency Range (MHz) | 152 - 156 |
| VSWR | <2.1 Max |
| Nominal Gain (dBi) | 5 |
| Maximum Power (W) | 200 |
| Nominal Impedance (Ohms) | 50 |
| Polarization | Vertical |
| Pattern | Omnidirectional |
| Half-Power Beamwidth (Elevation° / Azimuth°) | 80° / 360° |
| Coaxial Cable Length & Type | None |
| Termination | N-Female connector |
| Lightning Protection | Lightning Arrestor LABH350NN (Sold Separately) |

| MECHANICAL SPECIFICATION | |
|---|---|
| Dimensions – diameter x height – cm (in.) | 3.33 x 269 (1.31 x 106) |
| Weight kg (lbs) | <2.72 (<6) |
| Rated Wind Velocity – mph (kph) | 125 (210) |
| Rated Wind Velocity (with 0.5” radial ice) – mph (kph) | 85 (137) |
| Lateral Thrust @ 1.25 mph wind velocity- mph (kph) | 26 (57) |
| Wind Resistance sq. ft. | 0.9643 |
| Mounting Information | FM2 Mounting Kit (Sold separately) |

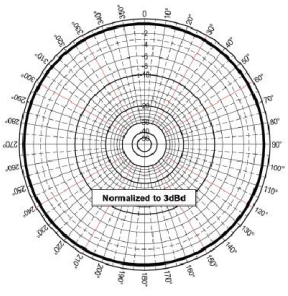
## CONFIGURATION

| PART NUMBER | CABLE LENGTH | CONNECTOR |
|---|---|---|
| FG1523 | N/A | N-Female Connector |

## RADIATION PATTERNS




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




Azimuthal Pattern (Y, Z, or E-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 TE 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 TE 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.

**12/21 Original**



Laird™ External Antennas is now part of TE connectivity