Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!


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Laird TECHNOLOGIES

Innovative **Technology** for a **Connected** World

# Quad-band Omnidirectional Antenna

## FG16397

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

The FG16397 quad-band 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 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 that allows for greater freedom in mounting. The antenna's high quality and well-focused beam provides the best efficiency with highest gain.

### FEATURES

- Quad-band
- Every FG fiberglass base antenna is tested on a network analyzerbefore shipping to assure the best performance
- Special UV Treated - Stands up to the sun
- 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
- The quad-band feature allows the antenna to be used in many diverse applications

| ELECTRICAL SPECIFICATIONS | | | | |
|---|---|---|---|---|
| Frequency Range | 806-896 MHz | 890-960 MHz | 1850-1990 MHz | 2400-2500 MHz |
| Peak Gain | 2 dBi | 1 dBi | 3.3 dBi | 2 dBi |
| Elevation Beamwidth at Half-Power | 110° | 90° | 60° | 70° |
| Azimuth Beamwidth at Half-Power | 360° | 360° | 360° | 360° |

| MECHANICAL SPECIFICATIONS | All data relevant to all frequencies |
|---|---|
| Maximum Power | 100 Watts |
| Nominal Impedance | 50Ω |
| Polarization | Vertical |
| VSWR | ≤ 2.0:1 |
| Termination | N-Female Connector |
| Mounting Bracket | Optional p/n: FM2SP Mounting Kit |
| Lightning Protection | Lightning Arrestor p/n: LABH350NN (sold separately) |
| Antenna Length | 14" (35.56cm) |
| Weight (Mass) | 0.844 lbs |
| Diameter | 1.310" (33.27mm) |
| Rated Wind Velocity | 125mph (210kph) |
| Rated Wind Velocity (with 1/2"(12.7mm) radial ice) | 85mph (137kph) |
| Wind Resistance | 0.1245 sq. ft |


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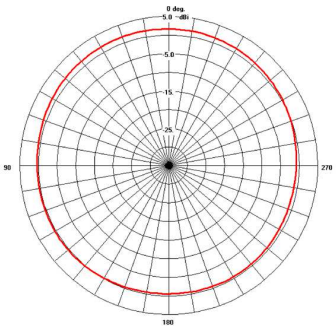
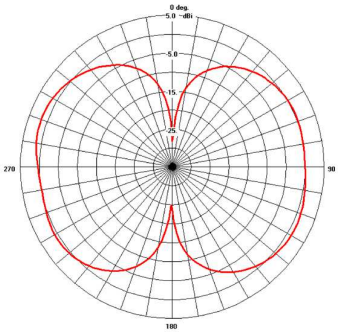
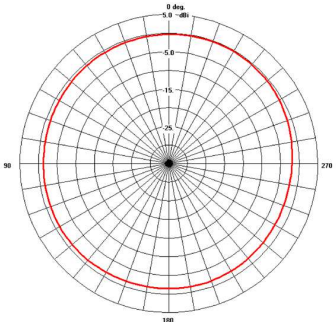
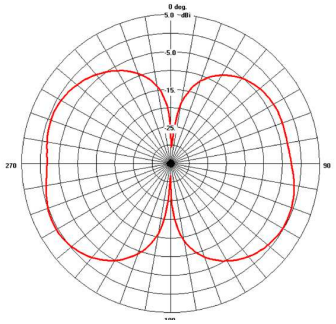
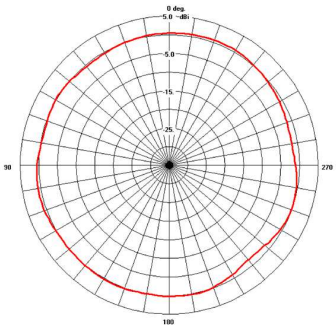
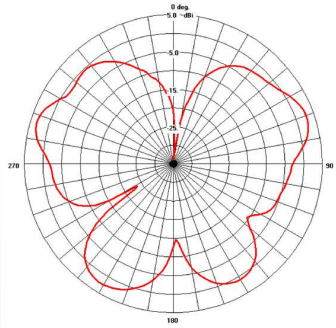
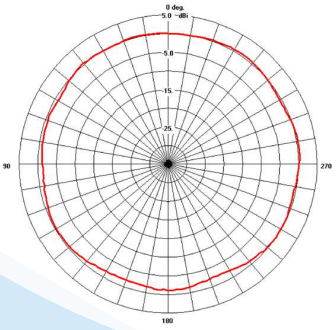
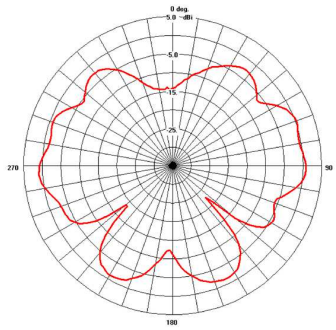
# Quad-band Omnidirectional Antenna

## FG16397

## PATTERNS

| | Azimuth | Elevation |
|---|---|---|
| 806-896 MHz |  |  |
| 890-960 MHz |  |  |
| 1850-1990 MH |  |  |
| 2400-2500 MH |  |  |

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