

HyperLink Wireless Embedded 2.4/5.8 GHz Omni-Directional PCB Antenna Model: HG2458-05PU-UFL

Applications

- Integrate into self contained wireless equipment
- Embedded applications requiring integration flexibility
- 2.4 GHz and 5.8 GHz band applications
- IEEE 802.11a/b/g/n WiFi systems
- Bluetooth devices



Features

- Highly efficient printed circuit board (PCB) design
- Designed for Omni-directional applications
- Dual frequency 2.4/5.8 GHz
- Low profile, compact size
- U.FL/IPX connector (custom connector options and cable lengths available)



Description

The HyperLink HG2458-05PU is a dual band 2.4/5.8 GHz Omni-directional antenna designed to directly integrate into devices requiring wireless capability. By embedding these antennas directly into a device, the need for external antennas is eliminated. The Omni-directional design of the HG2458-05PU makes it ideal for multipoint and mobile wireless systems since it provides 360° of coverage.

In addition to our standard embedded antennas, L-com engineering can also custom design antennas for the customer's specific applications.

Specifications

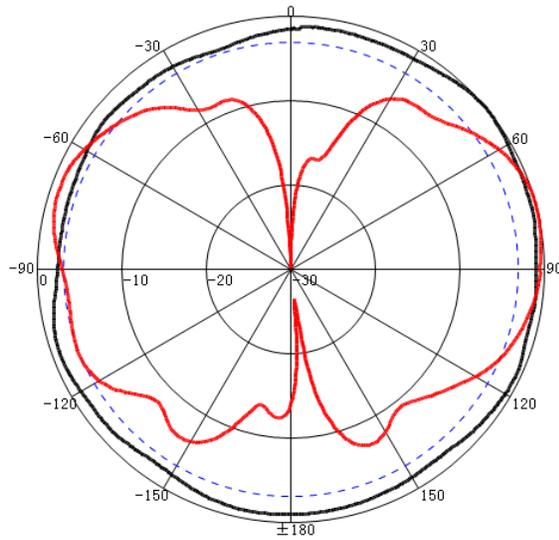
Mechanical Specifications

Connector	U.FL/IPX*
Antenna Lead	1.13mm coax
Antenna Lead Length	3.38 in (85.7mm)
Dimensions	1.6 x 0.7 x 0.02 in (40 x 18 x 0.4mm)
Weight	1g
*Custom connectors and lead lengths are available. Please contact L-com sales for more information	

Electrical Specifications

Frequency Range	2400-2500 / 5100-5900 MHz
Gain	3 / 5 dBi
Polarization	Vertical or Horizontal
Horizontal / Vertical Beam Width	360° / 55°
VSWR	≤ 2.0

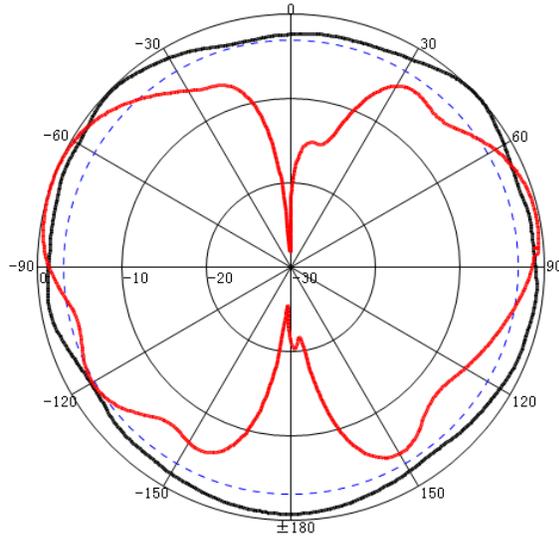
RF Antenna Patterns



Freq:2400MHz
Date:2014-07-24
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-27.20dB
HPBW(3dB):360.00°
FBR:0.93dB

Freq:2400MHz
Date:2014-07-24
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-26.60dB
HPBW(3dB):59.08°
FBR:1.00dB

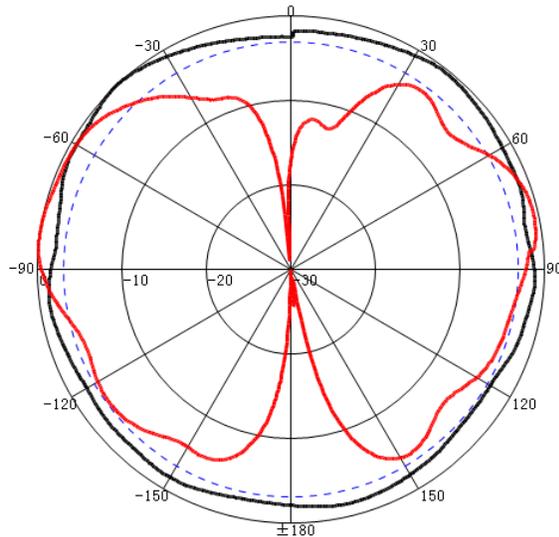
Gain:3.87dBi



Freq:2450MHz
Date:2014-07-24
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-27.76dB
HPBW(3dB):360.00°
FBR:0.74dB

Freq:2450MHz
Date:2014-07-24
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-25.98dB
HPBW(3dB):54.54°
FBR:0.00dB

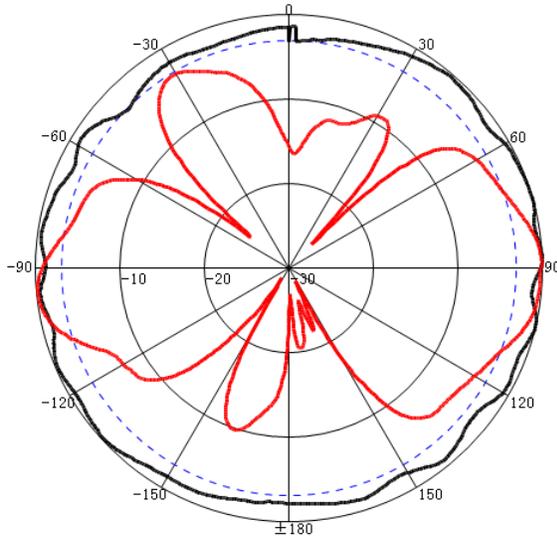
Gain:3.47dBi



Freq:2500MHz
Date:2014-07-24
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-28.19dB
HPBW(3dB):360.00°
FBR:1.48dB

Freq:2500MHz
Date:2014-07-24
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-26.04dB
HPBW(3dB):59.29°
FBR:0.00dB

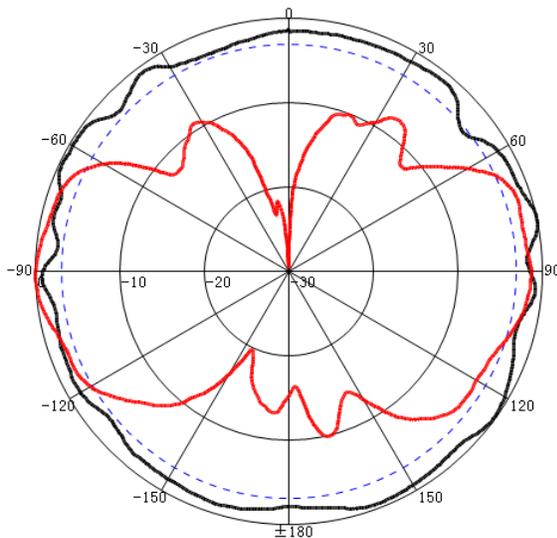
Gain:3.46dBi



Freq:4900MHz
Date:2014-07-24
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-32.05dB
HPBW(3dB):270.52°
FBR:1.32dB

Freq:4900MHz
Date:2014-07-24
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-30.43dB
HPBW(3dB):40.34°
FBR:0.17dB

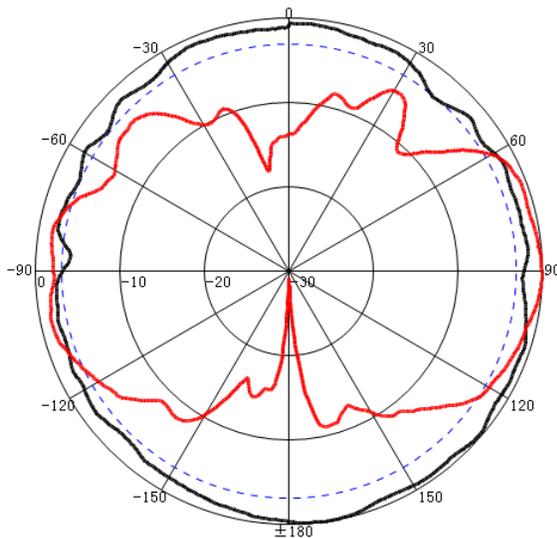
Gain:4.52dBi



Freq:5400MHz
Date:2014-07-24
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-33.21dB
HPBW(3dB):203.45°
FBR:0.50dB

Freq:5400MHz
Date:2014-07-24
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-32.39dB
HPBW(3dB):57.68°
FBR:0.00dB

Gain:4.64dBi



Freq:5850MHz
Date:2014-07-24
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-34.94dB
HPBW(3dB):226.64°
FBR:0.00dB

Freq:5850MHz
Date:2014-07-24
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-35.99dB
HPBW(3dB):64.75°
FBR:1.29dB

Gain:4.39dBi