

## HyperLink Wireless Embedded 900 MHz Omni-Directional PCB Antenna Model: HG902PU-UFL

### Applications

- Integrate into self contained wireless equipment
- Embedded applications requiring integration flexibility
- 900 MHz band applications
- RFID applications and devices

### Features

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



### Description

The HyperLink HG902PU is a 900 MHz 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 HG902PU 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

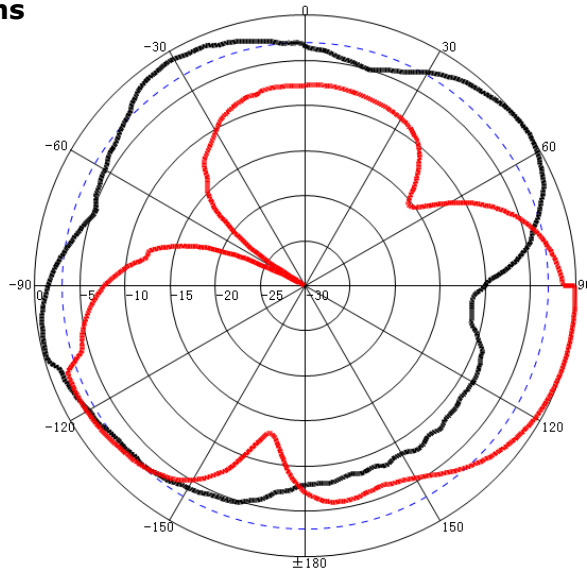
#### Electrical Specifications

<b>Frequency Range</b>	860-960 MHz
<b>Gain</b>	2 dBi
<b>Polarization</b>	Vertical
<b>Horizontal Beam Width</b>	360°
<b>Vertical Beam Width</b>	58°
<b>VSWR</b>	Typ. < 3.0

#### Mechanical Specifications

<b>Connector</b>	U.FL/IPX*
<b>Antenna Lead</b>	1.13mm coax
<b>Antenna Lead Length</b>	3.0 in (76.2mm)
<b>Dimensions</b>	1.61 x 2.11 x 0.06 in (40.8 x 53.6 x 1.63mm)
<b>Weight</b>	1g
*Custom connectors and lead lengths are available. Please contact L-com sales for more information	

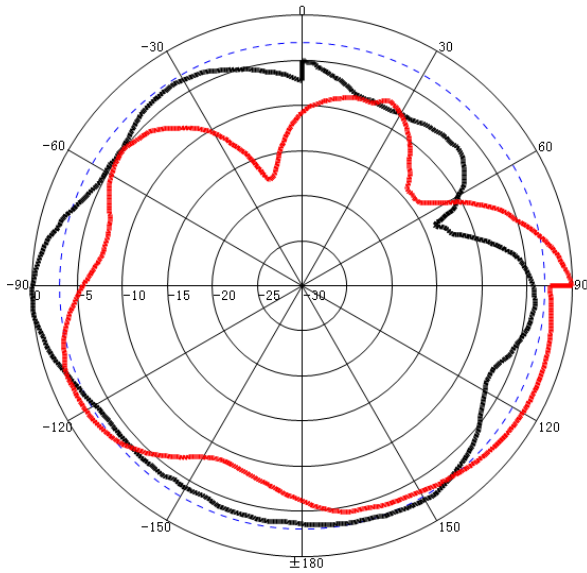
**RF Antenna Patterns**



Freq:860MHz  
Date:2016-03-01  
Elevation:H-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:-10.97dB  
HPBW(3dB):44.39°  
FBR:4.16dB  
Circularity:7.05

Freq:860MHz  
Date:2016-03-01  
Elevation:V-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:-10.39dB  
HPBW(3dB):68.46°  
FBR:1.96dB  
Circularity:26.79  
Obliquity:15.21°

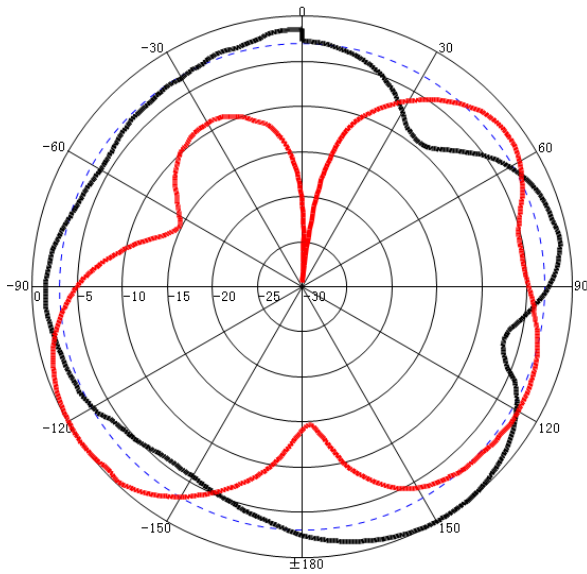
Gain:5.10dBi



Freq:910MHz  
Date:2016-03-01  
Elevation:H-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:-10.46dB  
HPBW(3dB):44.72°  
FBR:2.67dB  
Circularity:8.93

Freq:910MHz  
Date:2016-03-01  
Elevation:V-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:-13.50dB  
HPBW(3dB):62.09°  
FBR:2.04dB  
Circularity:11.86  
Obliquity:10.44°

Gain:5.40dBi



Freq:960MHz  
Date:2016-03-01  
Elevation:H-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:-16.90dB  
HPBW(3dB):65.46°  
FBR:0.01dB  
Circularity:6.22

Freq:960MHz  
Date:2016-03-01  
Elevation:V-plane  
Polar-Across:Main  
Polarization:Vertical  
Max:-18.48dB  
HPBW(3dB):52.52°  
FBR:0.08dB  
Circularity:24.14  
Obliquity:1.77°

Gain:4.30dBi