HyperLink Wireless Low PIM DAS Ceiling Antenna
Model: HG75805CUPR-NF

Applications

- DAS (Distributed Antenna Systems)
- 700 MHz and cellular applications
- AWS (Advanced wireless services) and PCS (Personal communications service) band applications
- In-building wireless networks and LTE networks
- IEEE 802.11a/b/g/n and 802.11ac applications

Features

- Frequency coverage for 700 MHz, 850 MHz, AWS and PCS bands
- Low Passive Inter-Modulation (PIM) rated
- Attractive unobtrusive radome design
- Easily mounts to ceiling tiles
- Full WiFi coverage from 2.4 GHz to 5 GHz

Description

The HyperLink HG75805CUPR-NF is a low PIM high performance ceiling mount antenna specifically designed for in-building wireless networks such as DAS (Distributed Antenna Systems) which are used to distribute Cellular and WiFi signals throughout a building or area. The Ultra-Wide Band design of this antenna eliminates the need to purchase different antennas for each frequency. This simplifies installations since the same antenna can be used for a wide array of in-building wireless applications where wide coverage is desired.

Complete WiFi Coverage

The HG75805CUPR-NF is designed to provide complete WiFi coverage from 2400 MHz to 6000 MHz and is compatible with IEEE 802.11a/b/g/n and 802.11ac networks. This adds an additional level of wireless coverage rather than using just the 2.4 GHz 802.11b/g bands. In addition, this antenna can operate in the 4.9 GHz band which is typically used with public safety services such as police and first responders. This along with the HG75805CUPR-NF coverage of the cellular/LTE bands makes this antenna ideal for in-building DAS applications.

Low PIM Rated

The key to providing the best performance in a DAS application is to ensure the components used are low PIM rated. This helps meet the increasing demand for higher data rates and the ability to provide streaming video for mobile devices. With a low PIM rating of <-153 dBc, the HG75805CU-PR helps meets the most demanding PIM requirements for LTE/4G bands.

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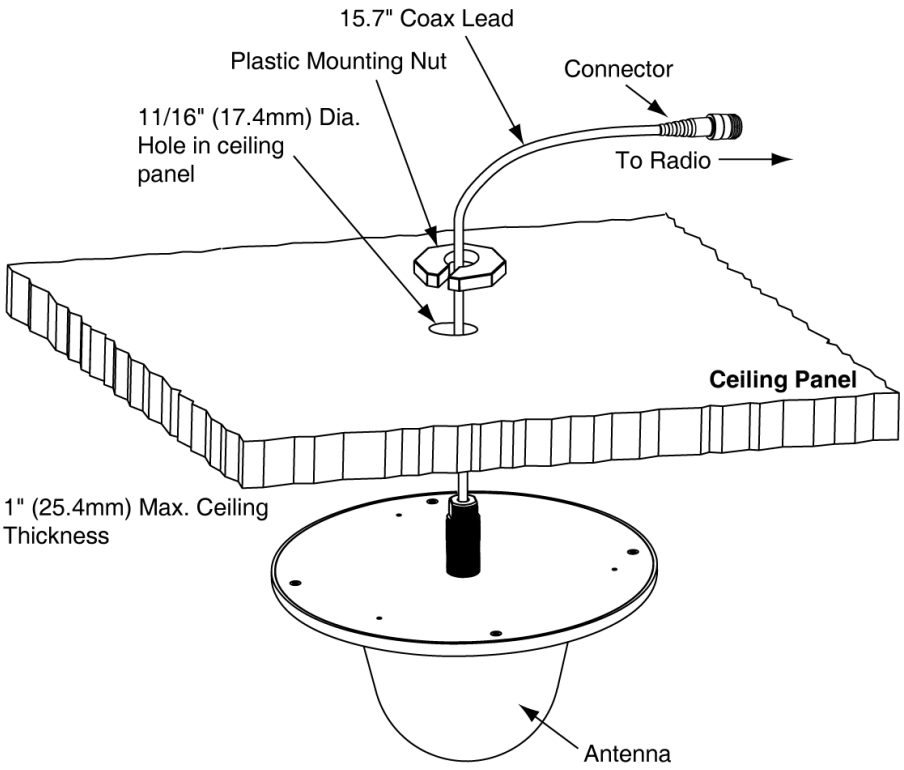
The aesthetically pleasing design of this antenna makes it ideal for use in almost any indoor environment. It can be easily mounted through a single 11/16" hole in a solid or suspended ceiling up to 1" thick. This antenna features a 13.7 inch coax lead terminated with an N-Female connector. Special order connectors are also available.

Mounting Details



Specifications

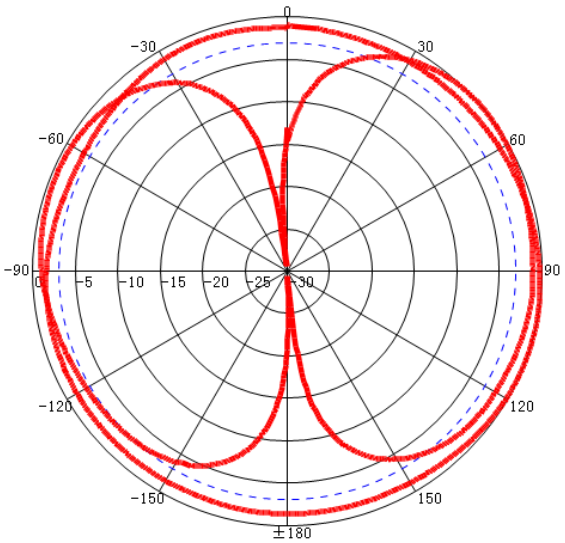
Electrical Specifications

Frequency Range	698-960 MHz
	1710-2700 MHz
	4900-6000 MHz
Gain (Typ)	2 dBi @ 698-960 MHz
	5 dBi @ 1710-2700 MHz
	5 dBi @ 4900-6000 MHz
Polarization	Vertical
Horizontal Beamwidth	360°
Vertical Beam Width	80° @ 698-960 MHz
	50° @ 1710-2700 MHz
	30° @ 4900-6000 MHz
Impedance	50 Ohm
Max. Input Power	50 Watts
VSWR (Typ)	< 1.6 @ 698-960 MHz
	< 1.5 @ 1710-2700 MHz
	< 1.7 @ 4900-6000 MHz
PIM, 3rd Order, 2 x 20 W (Max)	<-153 dBc

Mechanical Specifications

Cable Length	13.7 in. (35 cm) – Blue RG402 Series
Connector	N-Female
Weight	0.66 lbs. (0.3 Kg)
Dimensions	8.0 Dia. x 4.9 in. (204 Dia. x 125 mm)
Radome Material	UV Resistant ABS
Radome Color	White
Operating Temperature	-40° C to +60° C (-40° F to 140° F)
Mounting	.687" (17.4 mm) diameter hole
RoHS Compliant	Yes

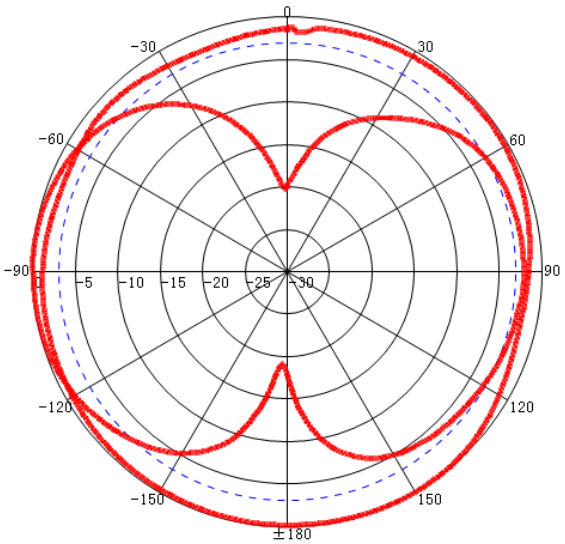
Antenna Gain Patterns



Freq:698MHz
Date:2015-03-24
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-11.05dB
HPBW(3dB):360.00°
FBR:1.18dB
Circularity:1.23

Freq:698MHz
Date:2015-03-24
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-12.75dB
HPBW(3dB):121.24°
FBR:0.55dB
Circularity:25.33
Obliquity:29.89°

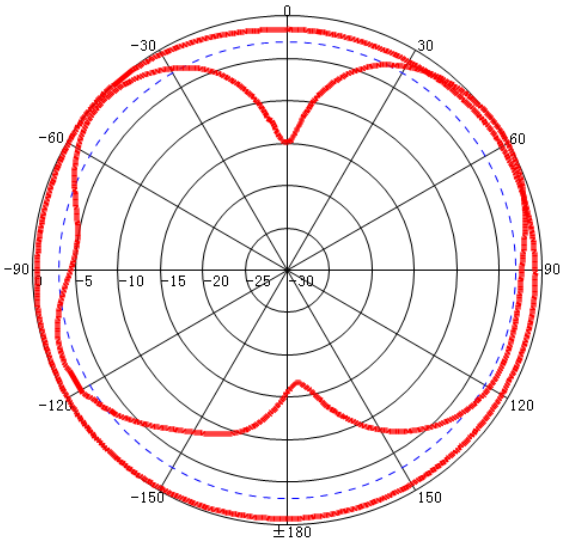
Gain:2.42dBi



Freq:827MHz
Date:2015-03-24
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-12.73dB
HPBW(3dB):88.93°
FBR:0.00dB
Circularity:12.87
Obliquity:1.70°

Freq:827MHz
Date:2015-03-24
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-12.52dB
HPBW(3dB):360.00°
FBR:0.00dB
Circularity:1.14

Gain:3.23dBi



Freq:960MHz
Date:2015-03-24
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-17.11dB
HPBW(3dB):360.00°
FBR:0.30dB
Circularity:0.91

Freq:960MHz
Date:2015-03-24
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-17.11dB
HPBW(3dB):99.98°
FBR:1.51dB
Circularity:10.66
Obliquity:4.35°

Gain:2.60dBi

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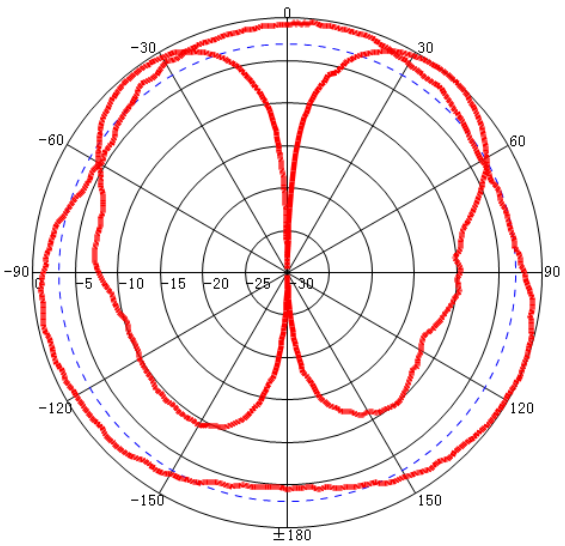
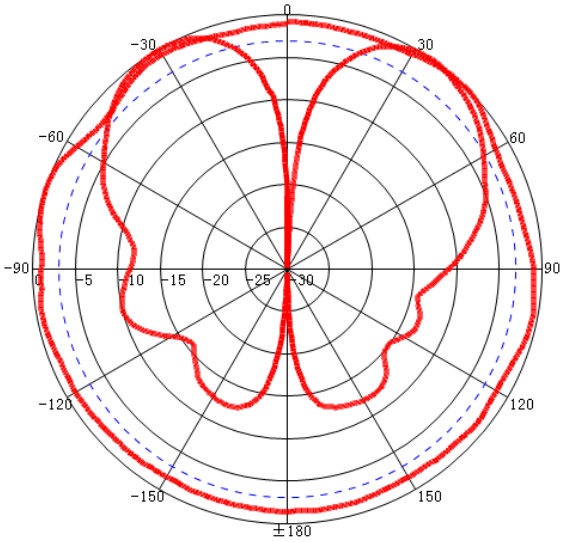


Freq:1710MHz
Date:2015-03-24
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-45.63dB
HPBW(3dB):72.31°
FBR:2.29dB
Circularity:2.80

Freq:1710MHz
Date:2015-03-24
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-37.30dB
HPBW(3dB):41.86°
FBR:4.40dB
Circularity:31.20
Obliquity:50.72°

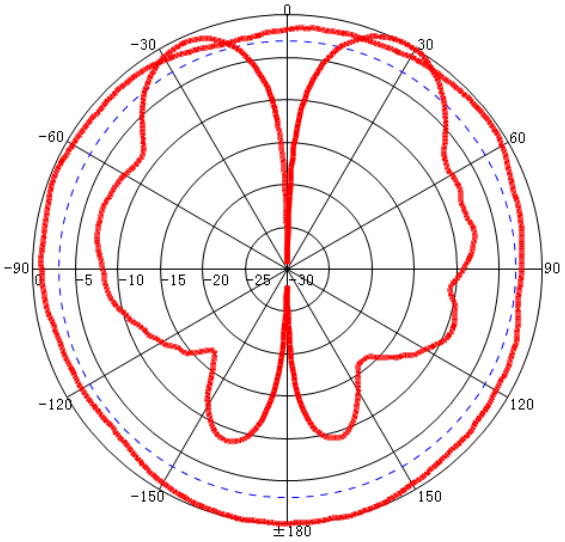
Gain:4.53dBi



Freq:2200MHz
Date:2015-03-24
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-33.44dB
HPBW(3dB):360.00°
FBR:1.37dB
Circularity:1.18

Freq:2200MHz
Date:2015-03-24
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-24.55dB
HPBW(3dB):39.77°
FBR:5.05dB
Circularity:20.80
Obliquity:54.83°

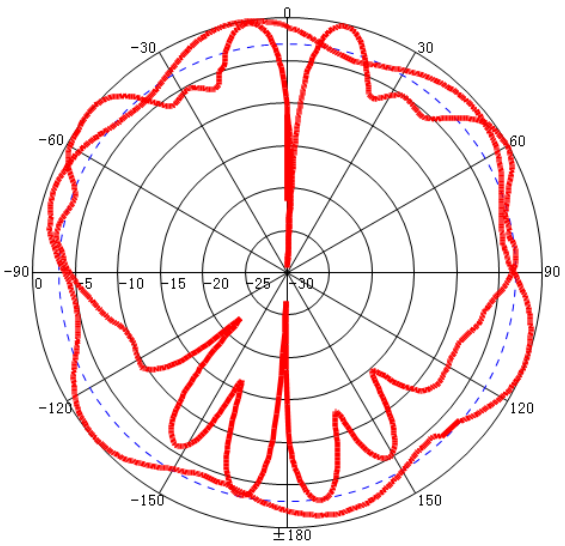
Gain:4.67dBi



Freq:2700MHz
Date:2015-03-24
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-35.69dB
HPBW(3dB):360.00°
FBR:0.00dB
Circularity:1.34

Freq:2700MHz
Date:2015-03-24
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-29.17dB
HPBW(3dB):29.42°
FBR:7.11dB
Circularity:25.57
Obliquity:62.46°

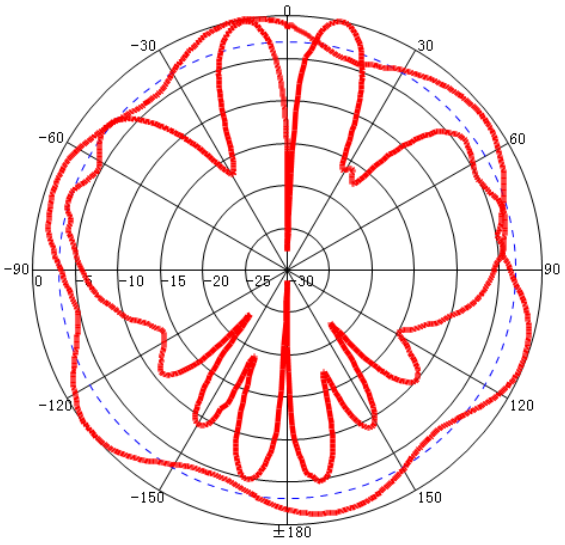
Gain:4.51dBi



Freq:4900MHz
Date:2015-10-09
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-31.62dB
HPBW(3dB):41.79°
FBR:1.00dB
Circularity:2.77

Freq:4900MHz
Date:2015-10-09
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-33.22dB
HPBW(3dB):27.62°
FBR:0.40dB
Circularity:33.61
Obliquity:20.85°

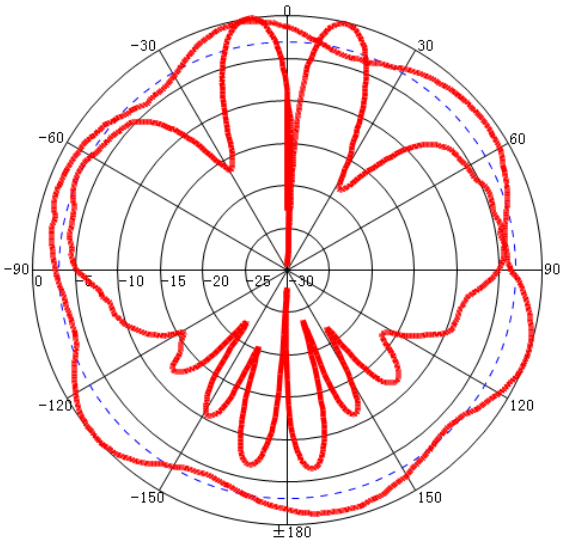
Gain:3.61dBi



Freq:5200MHz
Date:2015-10-09
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-34.53dB
HPBW(3dB):11.82°
FBR:2.96dB
Circularity:19.65
Obliquity:10.81°

Freq:5200MHz
Date:2015-10-09
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-34.88dB
HPBW(3dB):38.30°
FBR:0.86dB
Circularity:2.67

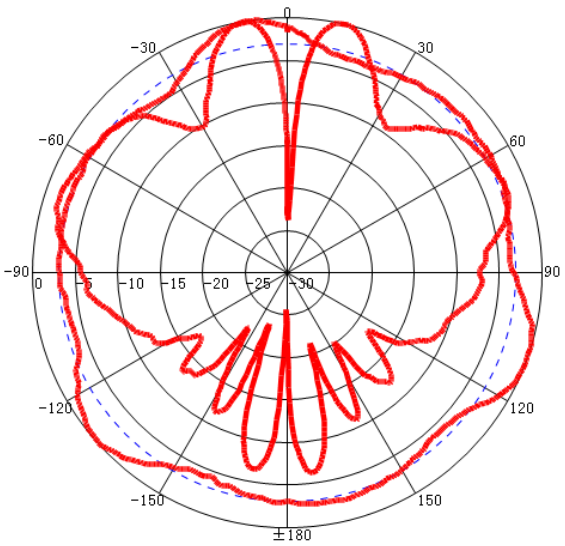
Gain:4.75dBi



Freq:5500MHz
Date:2015-10-09
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-35.52dB
HPBW(3dB):37.08°
FBR:0.90dB
Circularity:2.32

Freq:5500MHz
Date:2015-10-09
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-34.23dB
HPBW(3dB):12.82°
FBR:2.85dB
Circularity:23.81
Obliquity:98.25°

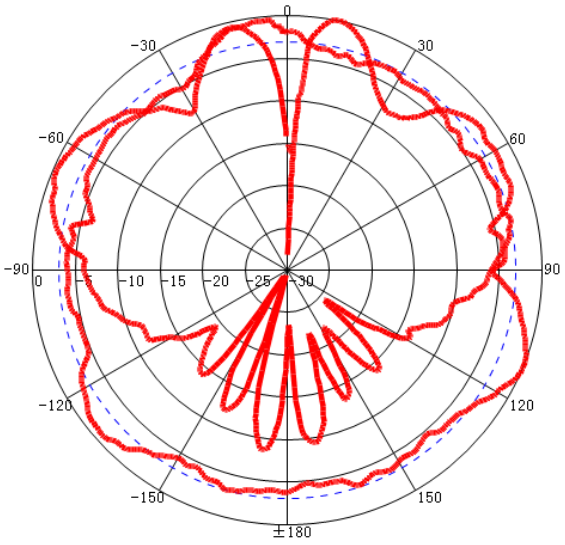
Gain:5.07dBi



Freq:5800MHz
Date:2015-10-09
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-41.37dB
HPBW(3dB):34.60°
FBR:2.43dB
Circularity:2.65

Freq:5800MHz
Date:2015-10-09
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-40.17dB
HPBW(3dB):14.42°
FBR:1.72dB
Circularity:17.02
Obliquity:99.64°

Gain:5.13dBi



Freq:6000MHz
Date:2015-10-09
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-44.73dB
HPBW(3dB):29.84°
FBR:3.10dB
Circularity:3.28

Freq:6000MHz
Date:2015-10-09
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-43.68dB
HPBW(3dB):14.92°
FBR:0.41dB
Circularity:34.77
Obliquity:78.22°

Gain:5.86dBi