

## HyperLink Wireless 5.8 GHz 17 dBi Radome Enclosed Yagi Antenna Model: HG5817Y-NF-1

### Applications

- 5.8 GHz ISM and UNII applications
- IEEE 802.11a wireless LAN
- Long range directional application
- 5.8 GHz wireless video systems
- Point to multi-point systems

### Features

- UV Stable ABS radome provides protection
- All weather operation
- 30° beam width coverage
- Lightweight design
- Includes tilt and swivel mast mount



### Description

The HyperLink HG5817Y-NF-1 radome enclosed yagi antenna features high gain and a 30° beam width. It is ideally suited for directional and multipoint IEEE 802.11a/n WiFi and wireless LAN applications and other systems operating in the 5.8GHz ISM band.

The HG5817Y-NF-1 is enclosed within a UV-stable ABS radome for all-weather operation. Included with the antenna is a 60° tilt and swivel mast mount kit. This allows the installer to make accurate alignment over a wide range of pointing angles.

The HG5817Y-NF-1 features a 10 inch (25.4mm) coax cable terminated with an N-Female connector. Additional connector type are available, please inquire when ordering for options.



### Specifications

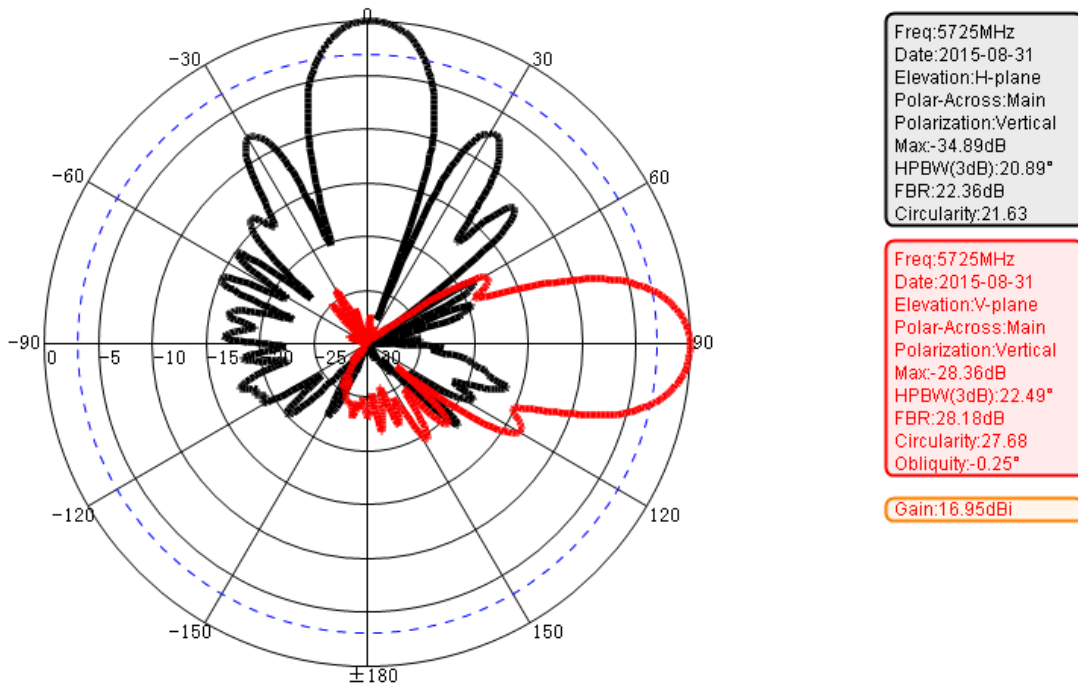
#### Electrical Specifications

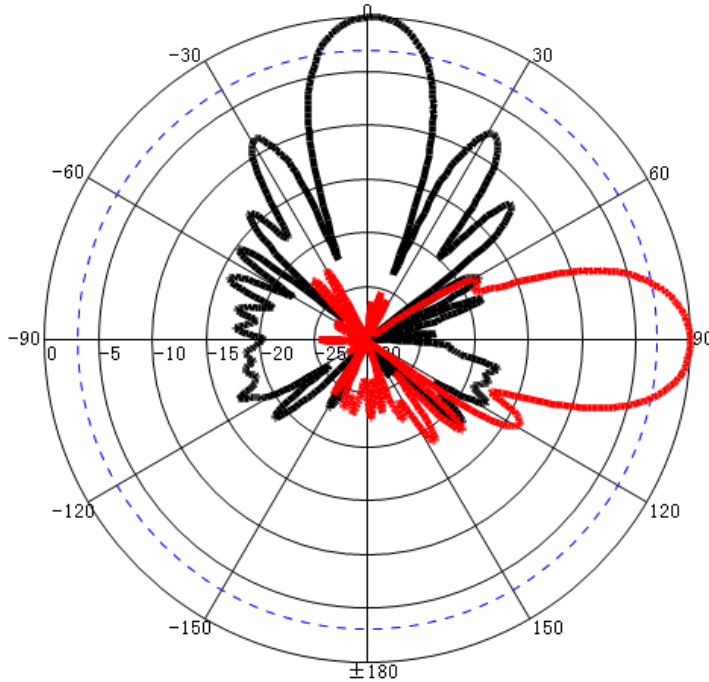
<b>Frequency Range</b>	5725 – 5825 MHz
<b>Gain</b>	16.5 dBi
<b>Polarization</b>	Vertical
<b>Horizontal Beam Width</b>	30°
<b>Vertical Beam Width</b>	25°
<b>F/B Ratio</b>	≥ 18 dB
<b>VSWR</b>	<1.5
<b>Impedance</b>	50 Ohm
<b>Max. Input Power</b>	100W
<b>Lightning Protection</b>	DC Ground

**Mechanical Specifications**

<b>Connector</b>	N-Female
<b>Dimensions</b>	13.6 x 4.6 x 2.6 in (345 x 116 x 65 mm)
<b>Antenna Weight</b>	0.73 lbs (0.3 kg)
<b>Mounting Hardware Weight</b>	0.88 lbs. (0.4 kg)
<b>Radome Material</b>	White Weatherproof ABS
<b>Cable Length</b>	10 in. (254mm)
<b>Mounting Method</b>	Mast
<b>Mast Size Diameter</b>	1.6 – 2.0 in. (40 – 50 mm)
<b>Operation Temperature</b>	-40°C to +65°C (-40°F to +149°F)
<b>Rated Wind Velocity</b>	130 mph (210km/h)
<b>RoHS Compliant</b>	Yes

**RF Antenna Patterns**

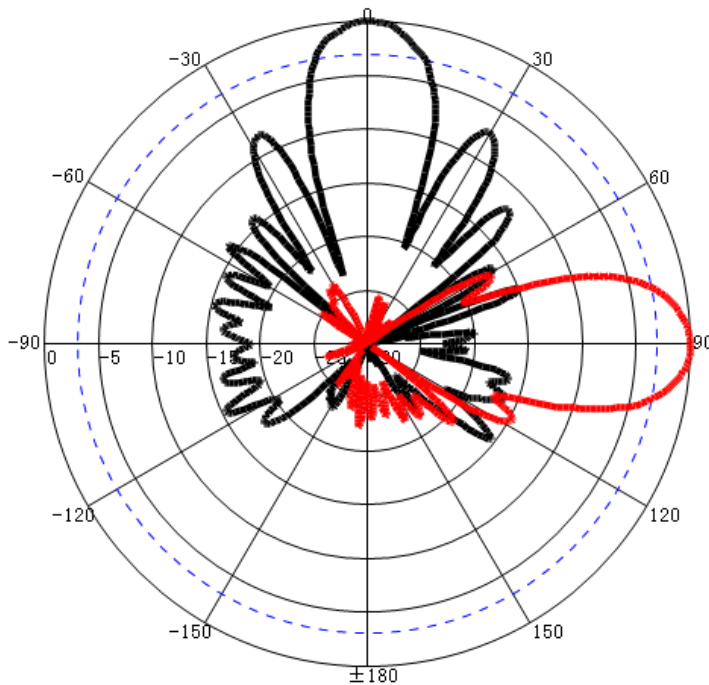




Freq:5785MHz  
 Date:2015-08-31  
 Elevation:H-plane  
 Polar-Across:Main  
 Polarization:Vertical  
 Max:-35.61dB  
 HPBW(3dB):21.04°  
 FBR:22.68dB  
 Circularity:22.92

Freq:5785MHz  
 Date:2015-08-31  
 Elevation:V-plane  
 Polar-Across:Main  
 Polarization:Vertical  
 Max:-29.16dB  
 HPBW(3dB):22.63°  
 FBR:25.52dB  
 Circularity:25.90  
 Obliquity:-0.58°

Gain:17.04dBi



Freq:5850MHz  
 Date:2015-08-31  
 Elevation:H-plane  
 Polar-Across:Main  
 Polarization:Vertical  
 Max:-38.67dB  
 HPBW(3dB):21.75°  
 FBR:23.16dB  
 Circularity:21.52

Freq:5850MHz  
 Date:2015-08-31  
 Elevation:V-plane  
 Polar-Across:Main  
 Polarization:Vertical  
 Max:-31.05dB  
 HPBW(3dB):21.88°  
 FBR:25.97dB  
 Circularity:26.33  
 Obliquity:-0.59°

Gain:16.93dBi