RH284-N-10

## 10 dBi Gain, 2.6-3.95 GHz, WR284 Standard Gain Horn with N Female Port

Rev 1

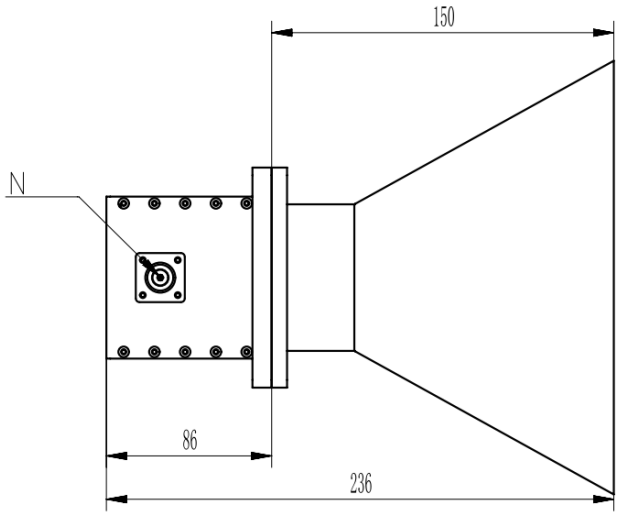
### Electrical

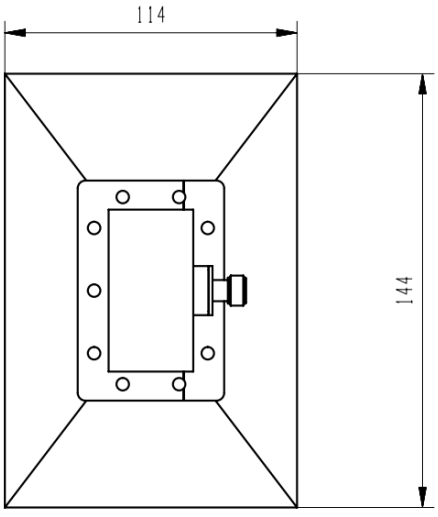
| | |
|---|---|
| **Frequency Range** | 2.6-3.95 GHz |
| **Norminal Gain** | 10 dBi |
| **Polarization** | Linear |
| **VSWR** | 1.4 max |
| **3dB Beamwidth** | E-Plane: 35.0~55.5 deg, H-Plane: 34.6~56.6 deg |
| **Operating Temperature** | -40℃~+70℃ |

### Mechanical

| | |
|---|---|
| **Waveguide Size** | WR284 |
| **Flange Type** | UDR32 Rectangular Cover Flange |
| **Body Material and Finish** | Aluminum, Painted |
| **RF Connector** | N Female |

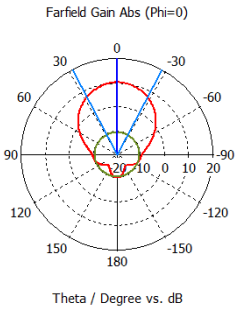
### Dimensions(mm)



# Simulated Antenna Patterns

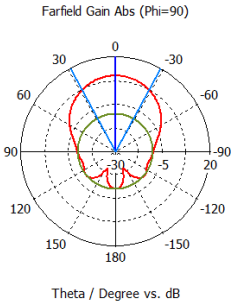
## 2.4GHz E-Plane




farfield (f=2.4) [1]

Frequency = 2.4
Main lobe magnitude = 10.2 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 55.5 deg.
Side lobe level = -20.5 dB

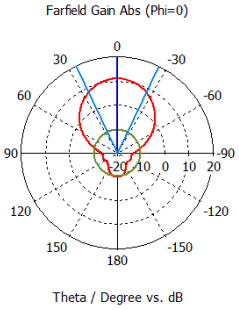
## H-Plane




farfield (f=2.4) [1]

Frequency = 2.4
Main lobe magnitude = 10.2 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 56.6 deg.
Side lobe level = -20.3 dB

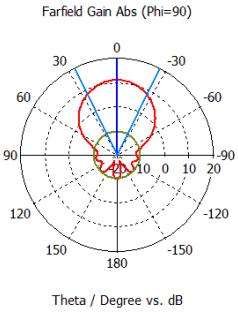
## 2.7GHz E-Plane




farfield (f=2.7) [1]

Frequency = 2.7
Main lobe magnitude = 11.1 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 50.6 deg.
Side lobe level = -21.0 dB

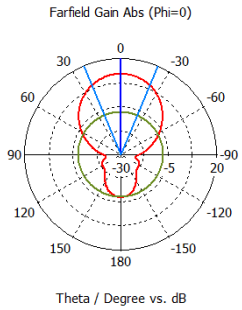
## H-Plane




farfield (f=2.7) [1]

Frequency = 2.7
Main lobe magnitude = 11.1 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 51.9 deg.
Side lobe level = -21.0 dB

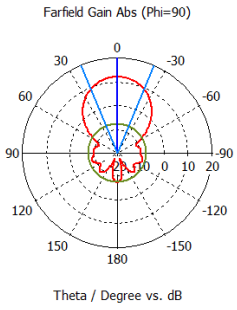
## 3.0GHz E-Plane




farfield (f=3) [1]

Frequency = 3
Main lobe magnitude = 12.2 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 45.1 deg.
Side lobe level = -20.0 dB

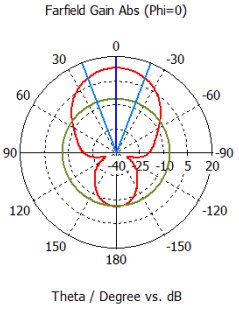
## H-Plane




farfield (f=3) [1]

Frequency = 3
Main lobe magnitude = 12.2 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 45.4 deg.
Side lobe level = -20.0 dB

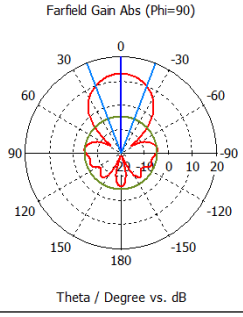
## 3.3GHz E-Plane




farfield (f=3.3) [1]

Frequency = 3.3
Main lobe magnitude = 13.0 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 41.6 deg.
Side lobe level = -19.1 dB

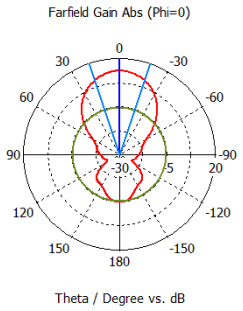
## H-Plane




farfield (f=3.3) [1]

Frequency = 3.3
Main lobe magnitude = 13.0 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 41.5 deg.
Side lobe level = -17.8 dB

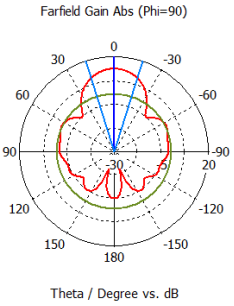
3.7GHz E-Plane




farfield (f=3.7) [1]

Frequency = 3.7
Main lobe magnitude = 13.8 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 37.8 deg.
Side lobe level = -19.0 dB

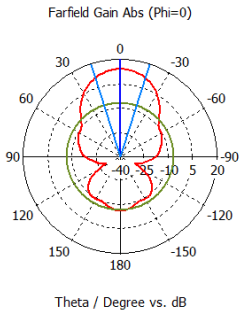
H-Plane




farfield (f=3.7) [1]

Frequency = 3.7
Main lobe magnitude = 13.8 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 34.7 deg.
Side lobe level = -13.0 dB

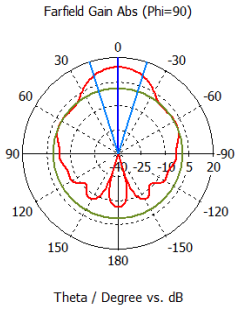
3.95GHz E-Plane




farfield (f=3.95) [1]

Frequency = 3.95
Main lobe magnitude = 14.2 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 35.0 deg.
Side lobe level = -20.6 dB

H-Plane




farfield (f=3.95) [1]

Frequency = 3.95
Main lobe magnitude = 14.2 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 34.6 deg.
Side lobe level = -13.1 dB

## Gain

