

20 dBi Gain, 2.6-3.95 GHz, WR284 Standard Gain Horn with UDR32

Flange

Rev 1

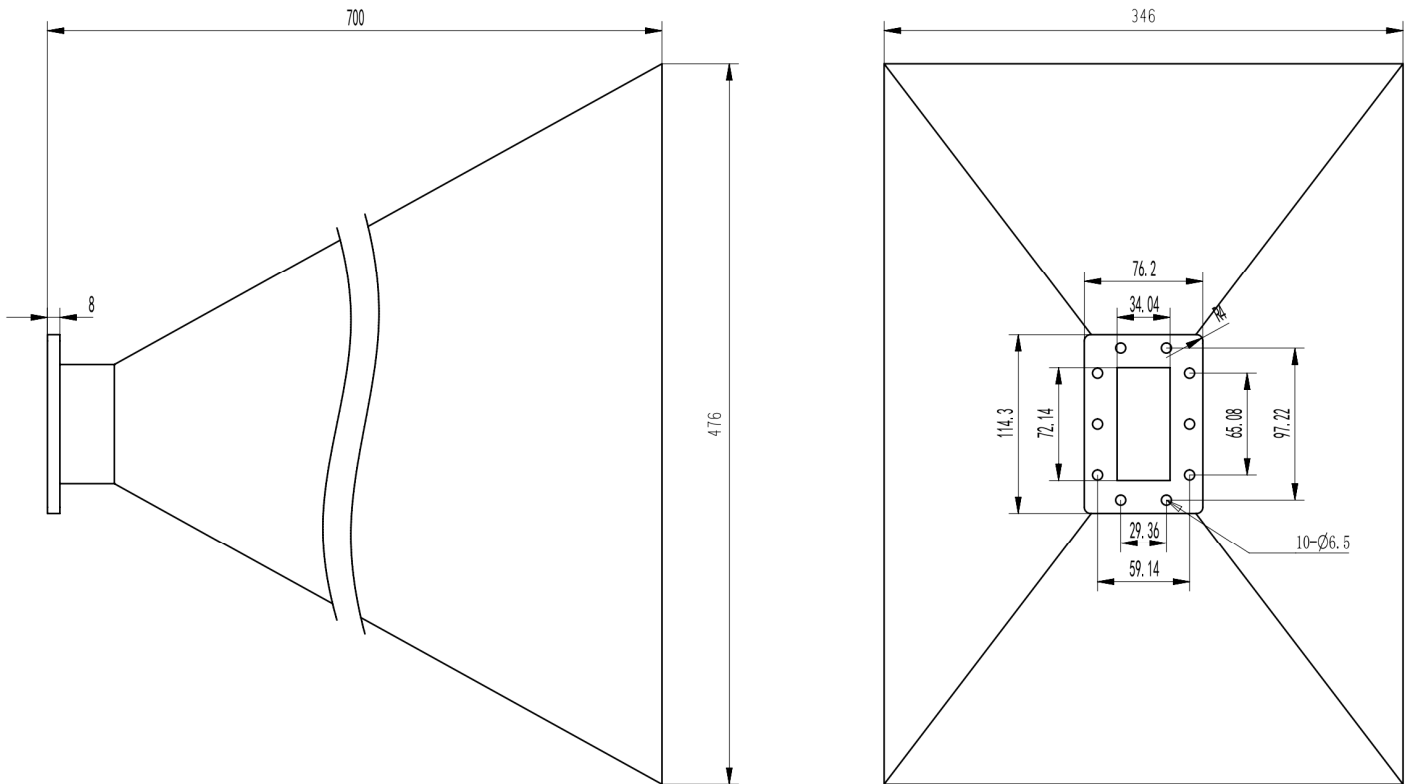
Electrical

Frequency Range	2.6-3.95 GHz
Norminal Gain	20 dBi
Polarization	Linear
VSWR	1.2 max
3dB Beamwidth	H-Plane: 13.1~18.9 deg, E-Plane: 11.8~18.5 deg
Operating Temperature	-40°C~+70°C

Mechanical

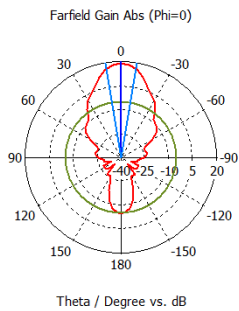
Waveguide Size	WR284
Flange Type	UDR32 Rectangular Cover Flange
Body Material and Finish	Aluminum, Painted

Dimensions(mm)



# Simulated Antenna Patterns

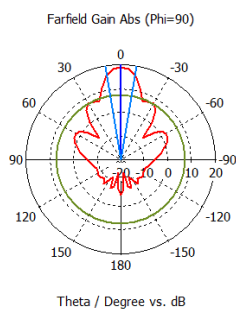
## 2.4GHz H-Plane



farfield (f=2.4) [1]

Frequency = 2.4  
Main lobe magnitude = 19.2 dB  
Main lobe direction = 0.0 deg.  
Angular width (3 dB) = 18.9 deg.  
Side lobe level = -24.3 dB

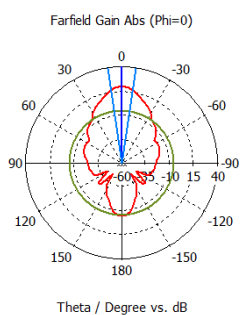
## E-Plane



farfield (f=2.4) [1]

Frequency = 2.4  
Main lobe magnitude = 19.2 dB  
Main lobe direction = 0.0 deg.  
Angular width (3 dB) = 18.5 deg.  
Side lobe level = -11.7 dB

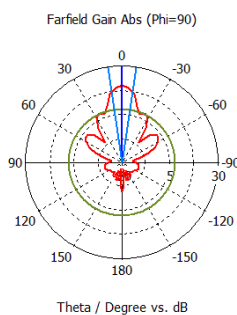
## 2.7GHz H-Plane



farfield (f=2.7) [1]

Frequency = 2.7  
Main lobe magnitude = 20.1 dB  
Main lobe direction = 0.0 deg.  
Angular width (3 dB) = 17.0 deg.  
Side lobe level = -25.2 dB

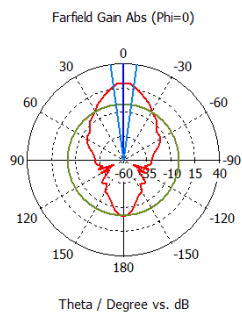
## E-Plane



farfield (f=2.7) [1]

Frequency = 2.7  
Main lobe magnitude = 20.1 dB  
Main lobe direction = 0.0 deg.  
Angular width (3 dB) = 16.4 deg.  
Side lobe level = -12.1 dB

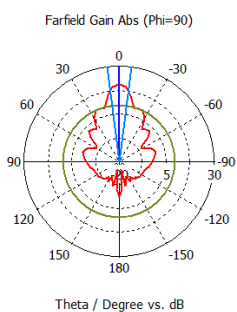
## 3.0GHz H-Plane



farfield (f=3) [1]

Frequency = 3  
Main lobe magnitude = 20.7 dB  
Main lobe direction = 0.0 deg.  
Angular width (3 dB) = 15.4 deg.  
Side lobe level = -22.4 dB

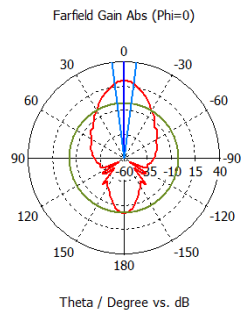
## E-Plane



farfield (f=3) [1]

Frequency = 3  
Main lobe magnitude = 20.7 dB  
Main lobe direction = 0.0 deg.  
Angular width (3 dB) = 14.3 deg.  
Side lobe level = -11.1 dB

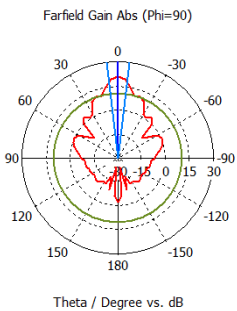
## 3.3GHz H-Plane



farfield (f=3.3) [1]

Frequency = 3.3  
Main lobe magnitude = 21.2 dB  
Main lobe direction = 0.0 deg.  
Angular width (3 dB) = 14.5 deg.  
Side lobe level = -23.7 dB

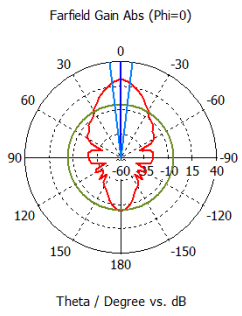
## E-Plane



farfield (f=3.3) [1]

Frequency = 3.3  
Main lobe magnitude = 21.2 dB  
Main lobe direction = 0.0 deg.  
Angular width (3 dB) = 13.4 deg.  
Side lobe level = -10.4 dB

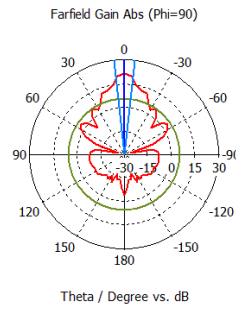
### 3.7GHz H-Plane



farfield (f=3.7) [1]

Frequency = 3.7  
 Main lobe magnitude = 21.8 dB  
 Main lobe direction = 0.0 deg.  
 Angular width (3 dB) = 13.5 deg.  
 Side lobe level = -26.0 dB

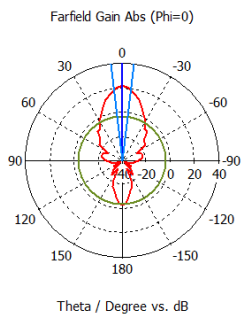
### E-Plane



farfield (f=3.7) [1]

Frequency = 3.7  
 Main lobe magnitude = 21.8 dB  
 Main lobe direction = 0.0 deg.  
 Angular width (3 dB) = 12.3 deg.  
 Side lobe level = -16.4 dB

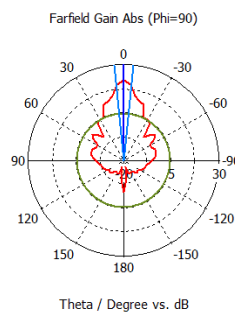
### 3.95GHz H-Plane



farfield (f=3.95) [1]

Frequency = 3.95  
 Main lobe magnitude = 22.1 dB  
 Main lobe direction = 0.0 deg.  
 Angular width (3 dB) = 13.1 deg.  
 Side lobe level = -25.4 dB

### E-Plane



farfield (f=3.95) [1]

Frequency = 3.95  
 Main lobe magnitude = 22.1 dB  
 Main lobe direction = 0.0 deg.  
 Angular width (3 dB) = 11.8 deg.  
 Side lobe level = -17.5 dB

## Gain

