

## 25 dBi Gain, 9.84-15 GHz, WR75 Standard Gain Horn with UBR120

### Flange

Rev 1

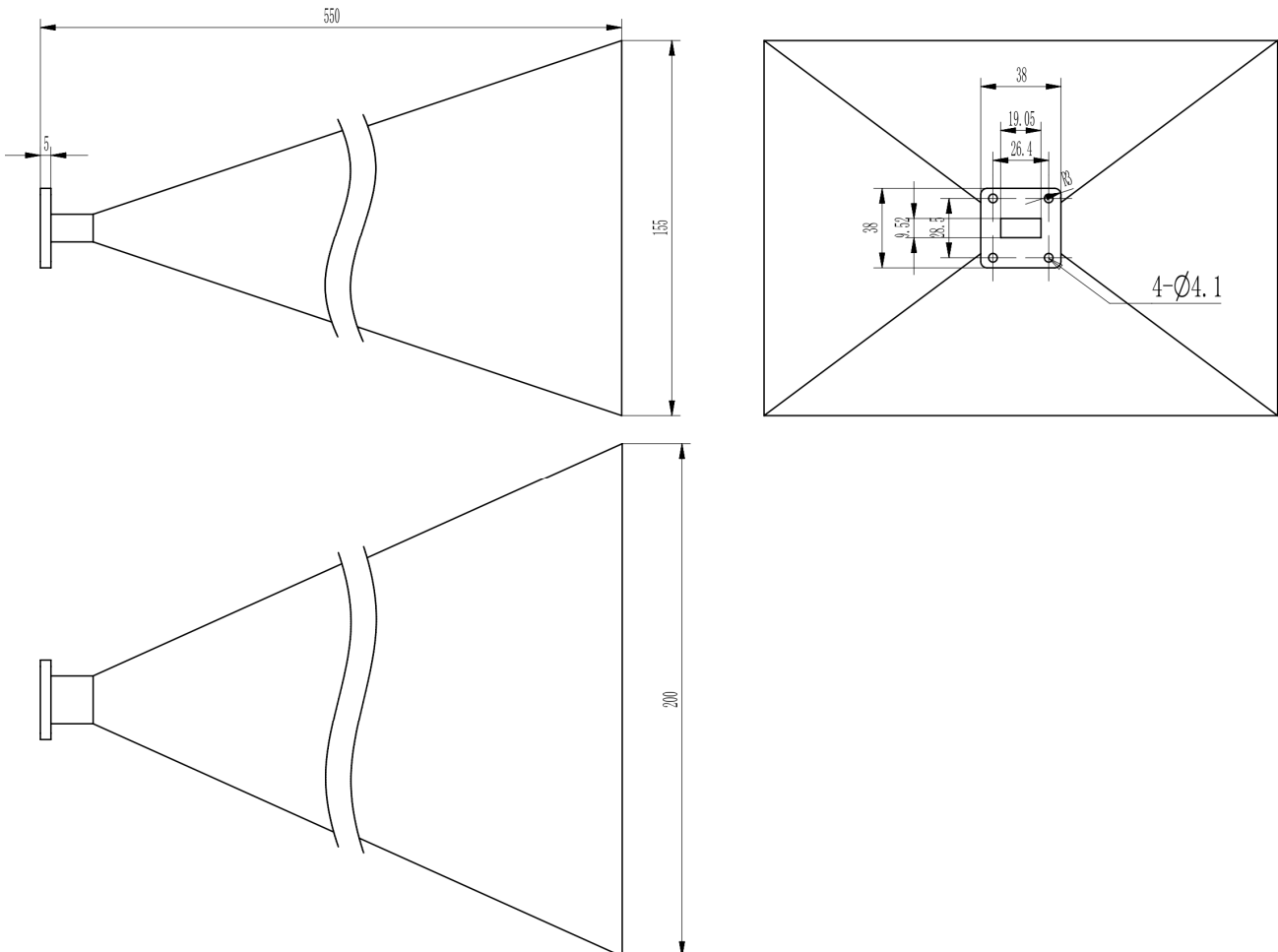
#### Electrical

Frequency Range	9.84-15 GHz
Norminal Gain	25 dBi
Polarization	Linear
VSWR	1.2 max
3dB Beamwidth	H-Plane: 8.2~11.0 deg, E-Plane: 7.2~10.5 deg
Operating Temperature	-40°C~+70°C

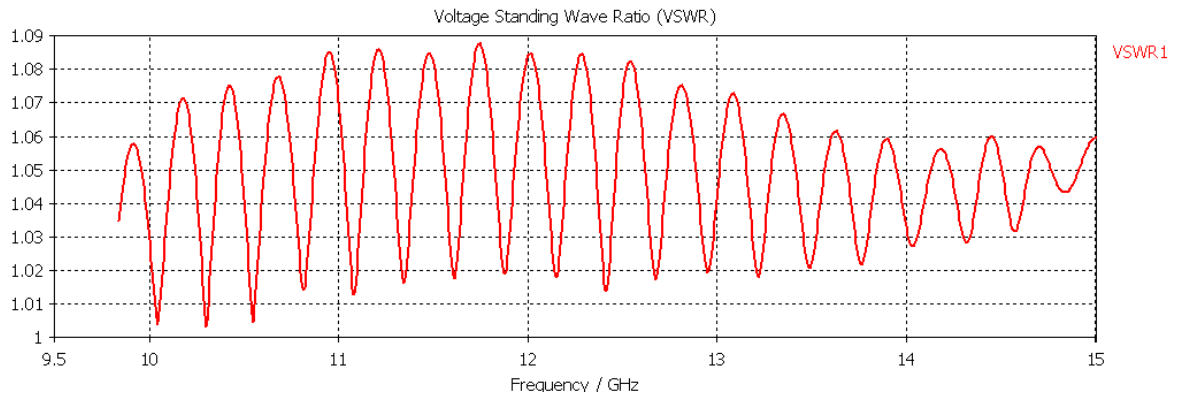
#### Mechanical

Waveguide Size	WR75
Flange Type	UBR120 Square Cover Flange
Body Material and Finish	Aluminum, Painted

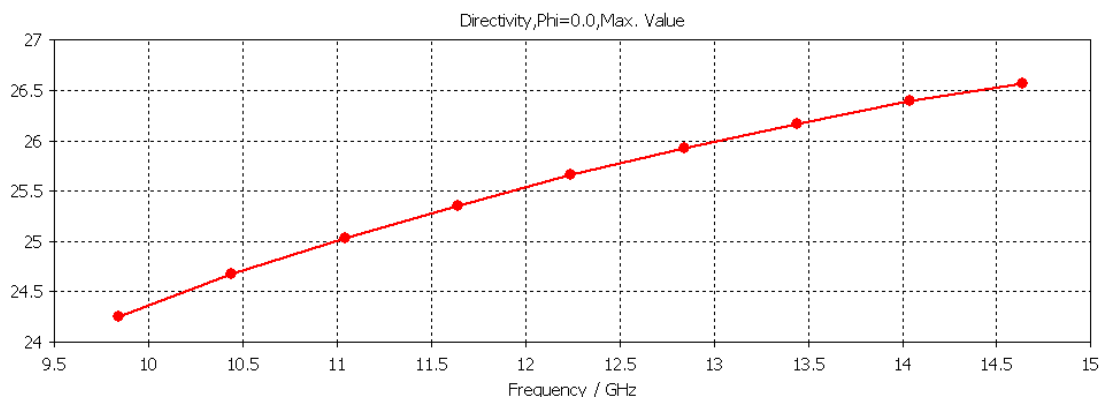
#### Dimensions(mm)



## Typical Test Data

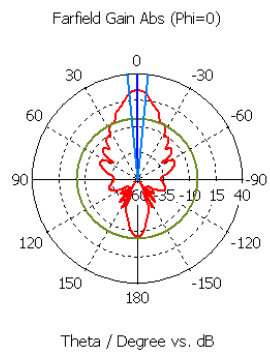


## Gain



# Simulated Antenna Patterns

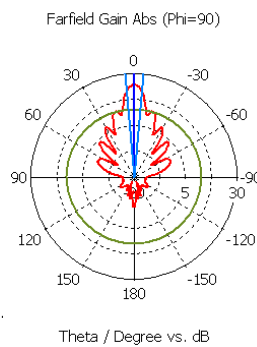
## 9.84GHz H-Plane



farfield (f=09.8400) [1]

Frequency = 9.84  
Main lobe magnitude = 24.2 dB  
Main lobe direction = 0.0 deg.  
Angular width (3 dB) = 11.0 deg.  
Side lobe level = -26.8 dB

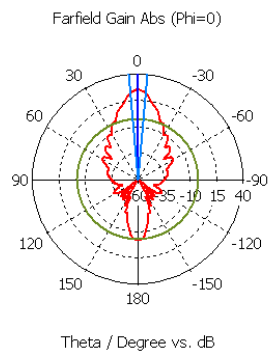
## E-Plane



farfield (f=09.8400) [1]

Frequency = 9.84  
Main lobe magnitude = 24.2 dB  
Main lobe direction = 0.0 deg.  
Angular width (3 dB) = 10.5 deg.  
Side lobe level = -11.4 dB

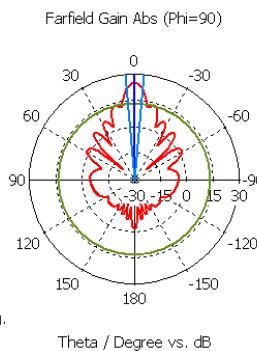
## 10.44GHz H-Plane



farfield (f=10.4400) [1]

Frequency = 10.44  
Main lobe magnitude = 24.7 dB  
Main lobe direction = 0.0 deg.  
Angular width (3 dB) = 10.5 deg.  
Side lobe level = -26.9 dB

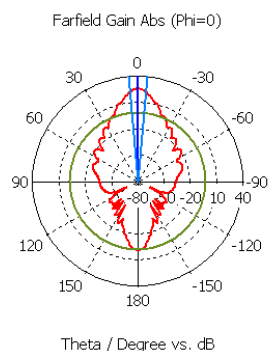
## E-Plane



farfield (f=10.4400) [1]

Frequency = 10.44  
Main lobe magnitude = 24.7 dB  
Main lobe direction = 0.0 deg.  
Angular width (3 dB) = 9.9 deg.  
Side lobe level = -11.2 dB

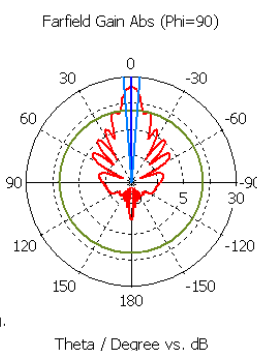
## 11.04GHz H-Plane



farfield (f=11.0400) [1]

Frequency = 11.04  
Main lobe magnitude = 25.0 dB  
Main lobe direction = 0.0 deg.  
Angular width (3 dB) = 10.0 deg.  
Side lobe level = -27.1 dB

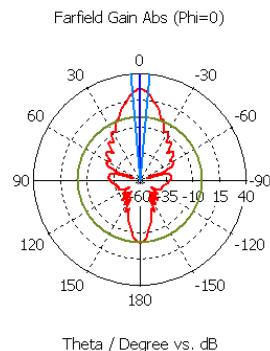
## E-Plane



farfield (f=11.0400) [1]

Frequency = 11.04  
Main lobe magnitude = 25.0 dB  
Main lobe direction = 0.0 deg.  
Angular width (3 dB) = 9.4 deg.  
Side lobe level = -10.9 dB

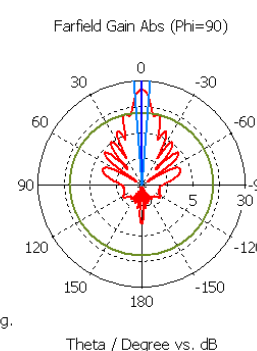
## 11.64GHz H-Plane



farfield (f=11.6400) [1]

Frequency = 11.64  
Main lobe magnitude = 25.3 dB  
Main lobe direction = 0.0 deg.  
Angular width (3 dB) = 9.6 deg.  
Side lobe level = -26.5 dB

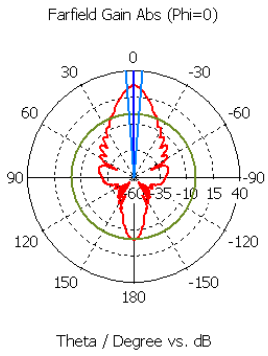
## E-Plane



farfield (f=11.6400) [1]

Frequency = 11.64  
Main lobe magnitude = 25.3 dB  
Main lobe direction = 0.0 deg.  
Angular width (3 dB) = 8.9 deg.  
Side lobe level = -10.7 dB

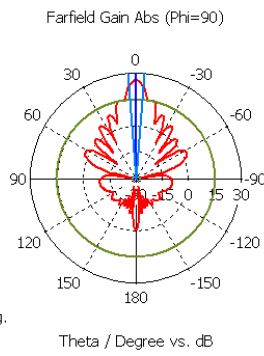
**12.24GHz H-Plane**



farfield (f=12.2400) [1]

Frequency = 12.24  
Main lobe magnitude = 25.6 dB  
Main lobe direction = 0.0 deg.  
Angular width (3 dB) = 9.2 deg.  
Side lobe level = -26.8 dB

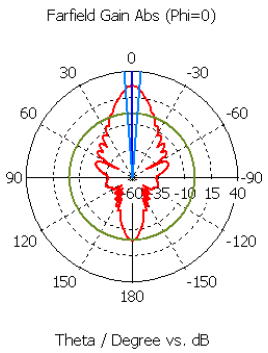
**E-Plane**



farfield (f=12.2400) [1]

Frequency = 12.24  
Main lobe magnitude = 25.6 dB  
Main lobe direction = 0.0 deg.  
Angular width (3 dB) = 8.5 deg.  
Side lobe level = -10.4 dB

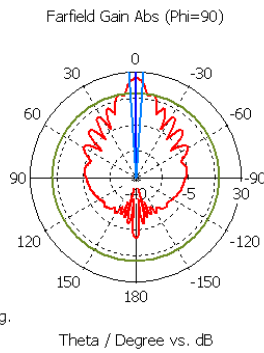
**12.84GHz H-Plane**



farfield (f=12.8400) [1]

Frequency = 12.84  
Main lobe magnitude = 25.9 dB  
Main lobe direction = 0.0 deg.  
Angular width (3 dB) = 8.9 deg.  
Side lobe level = -26.0 dB

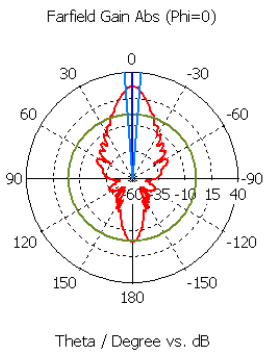
**E-Plane**



farfield (f=12.8400) [1]

Frequency = 12.84  
Main lobe magnitude = 25.9 dB  
Main lobe direction = 0.0 deg.  
Angular width (3 dB) = 8.2 deg.  
Side lobe level = -10.2 dB

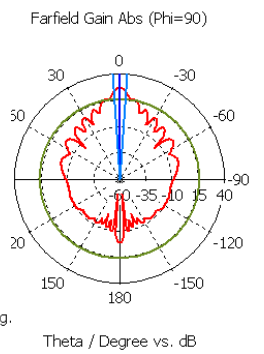
**13.44GHz H-Plane**



farfield (f=13.4400) [1]

Frequency = 13.44  
Main lobe magnitude = 26.1 dB  
Main lobe direction = 0.0 deg.  
Angular width (3 dB) = 8.6 deg.  
Side lobe level = -25.6 dB

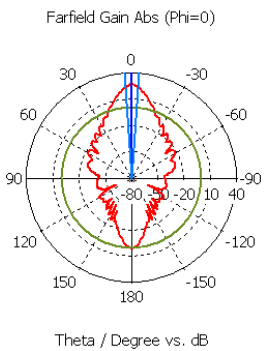
**E-Plane**



farfield (f=13.4400) [1]

Frequency = 13.44  
Main lobe magnitude = 26.1 dB  
Main lobe direction = 0.0 deg.  
Angular width (3 dB) = 7.8 deg.  
Side lobe level = -9.9 dB

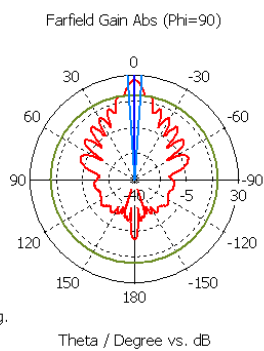
**14.04GHz H-Plane**



farfield (f=14.0400) [1]

Frequency = 14.04  
Main lobe magnitude = 26.3 dB  
Main lobe direction = 0.0 deg.  
Angular width (3 dB) = 8.4 deg.  
Side lobe level = -26.2 dB

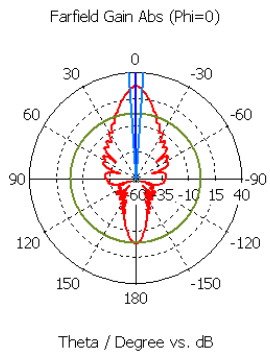
**E-Plane**



farfield (f=14.0400) [1]

Frequency = 14.04  
Main lobe magnitude = 26.3 dB  
Main lobe direction = 0.0 deg.  
Angular width (3 dB) = 7.5 deg.  
Side lobe level = -9.7 dB

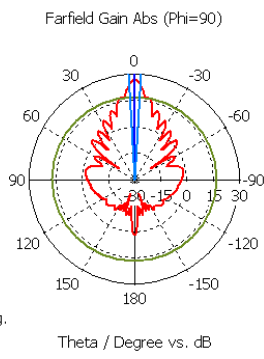
14.64GHz H-Plane



farfield (f=14.6400) [1]

Frequency = 14.64  
Main lobe magnitude = 26.5 dB  
Main lobe direction = 0.0 deg.  
Angular width (3 dB) = 8.2 deg.  
Side lobe level = -25.0 dB

E-Plane



farfield (f=14.6400) [1]

Frequency = 14.64  
Main lobe magnitude = 26.5 dB  
Main lobe direction = 0.0 deg.  
Angular width (3 dB) = 7.2 deg.  
Side lobe level = -9.5 dB