

25 dBi Gain, 9.84-15 GHz, WR75 Standard Gain Horn with SMA Female Port

Rev 1

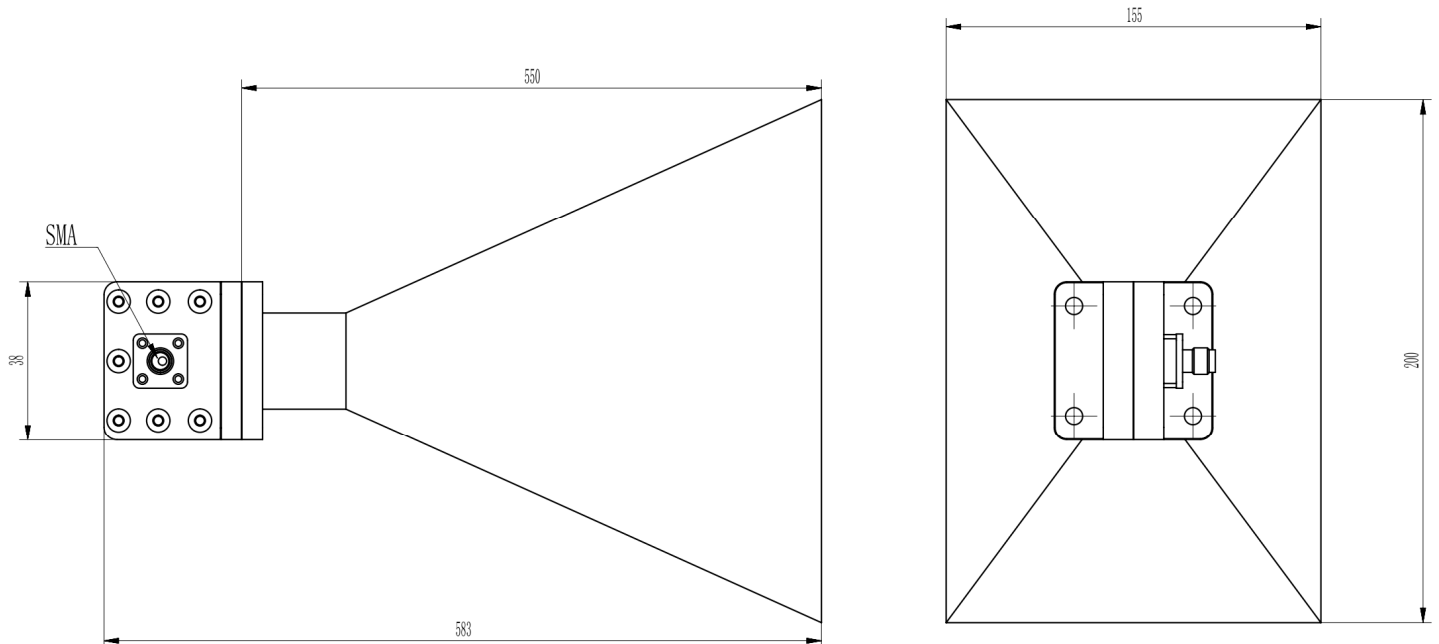
Electrical

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

Mechanical

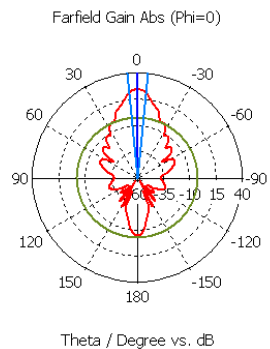
| | |
|--------------------------|----------------------------|
| Waveguide Size | WR75 |
| Flange Type | UBR120 Square Cover Flange |
| Body Material and Finish | Aluminum, Painted |
| RF Connector | SMA Female |

Dimensions(mm)



Simulated Antenna Patterns

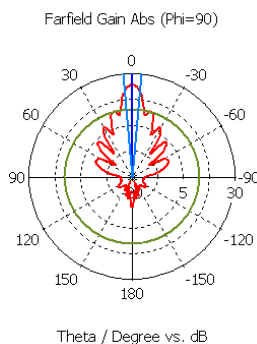
9.84GHz E-Plane



farfield (f=09.8400) [1]

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

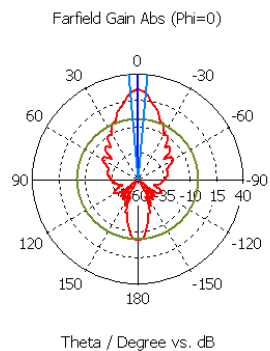
H-Plane



farfield (f=09.8400) [1]

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

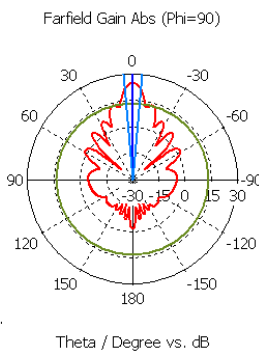
10.44GHz E-Plane



farfield (f=10.4400) [1]

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

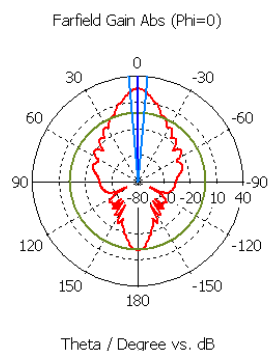
H-Plane



farfield (f=10.4400) [1]

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

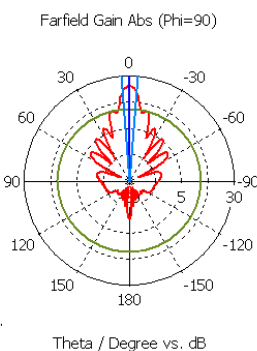
11.04GHz E-Plane



farfield (f=11.0400) [1]

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

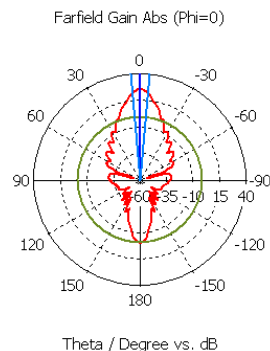
H-Plane



farfield (f=11.0400) [1]

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

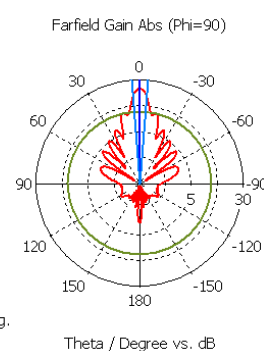
11.64GHz E-Plane



farfield (f=11.6400) [1]

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

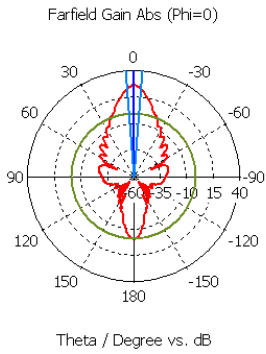
H-Plane



farfield (f=11.6400) [1]

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

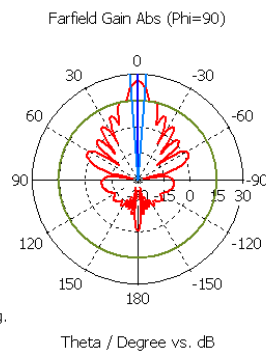
12.24GHz E-Plane



farfield (f=12.2400) [1]

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

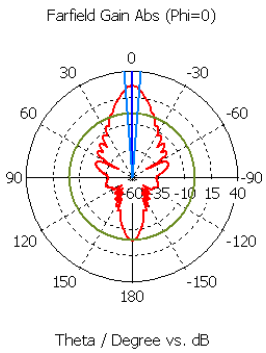
H-Plane



farfield (f=12.2400) [1]

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

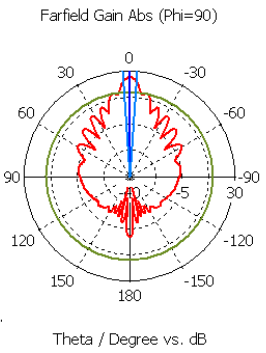
12.84GHz E-Plane



farfield (f=12.8400) [1]

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

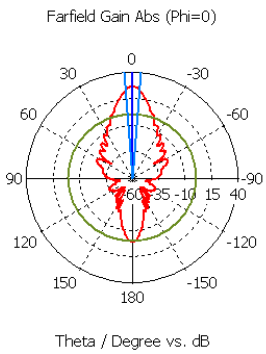
H-Plane



farfield (f=12.8400) [1]

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

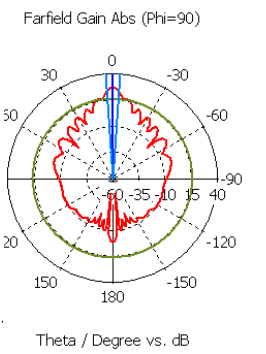
13.44GHz E-Plane



farfield (f=13.4400) [1]

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

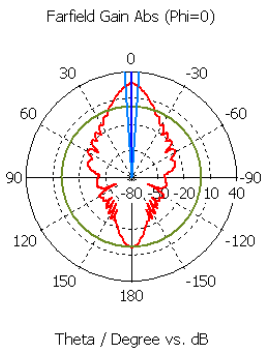
H-Plane



farfield (f=13.4400) [1]

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

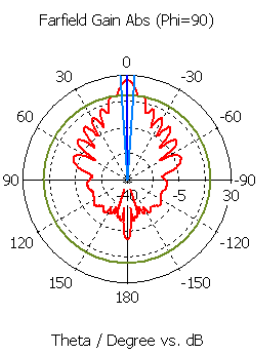
14.04GHz E-Plane



farfield (f=14.0400) [1]

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

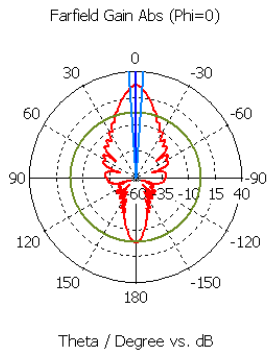
H-Plane



farfield (f=14.0400) [1]

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

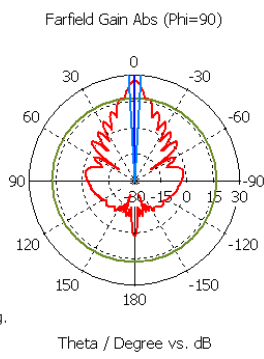
14.64GHz E-Plane



farfield (f=14.6400) [1]

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

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) = 7.2 deg.
 Side lobe level = -9.5 dB

Gain

