

15 dBi Gain, 49.8-75.8 GHz, WR15 Standard Gain Horn with UG385/U Flange

Rev 1

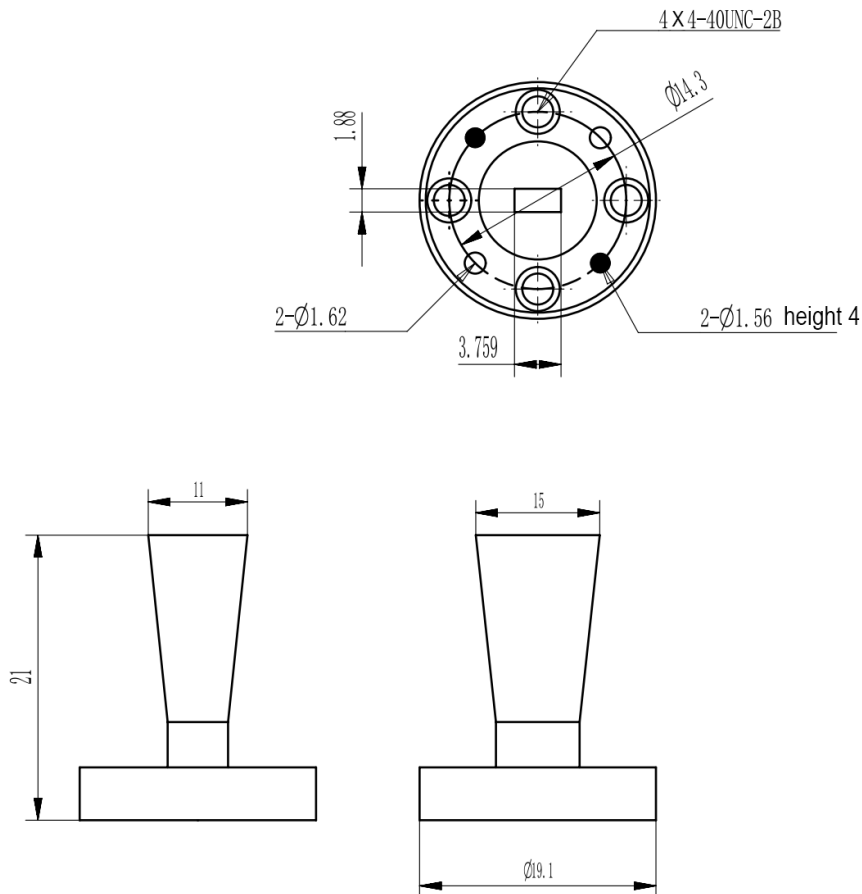
Electrical

Frequency Range	49.8-75.8 GHz
Norminal Gain	15 dBi
Polarization	Linear
VSWR	1.2 max
3dB Beamwidth	E-Plane: 20.7~29.5 deg, H-Plane: 20.7~30.2 deg
Operating Temperature	-40°C~+70°C

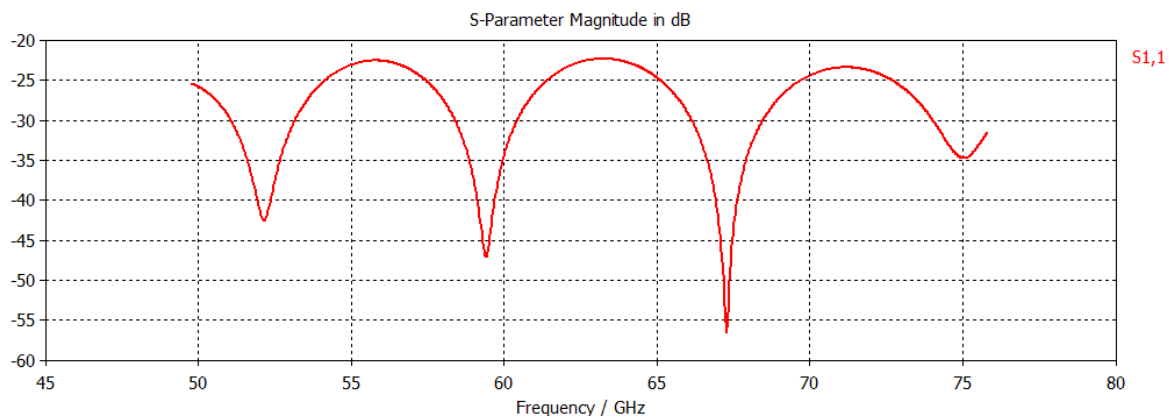
Mechanical

Waveguide Size	WR15
Flange Type	UG385/U Round Cover Flange
Body Material and Finish	Copper, Gold Plated

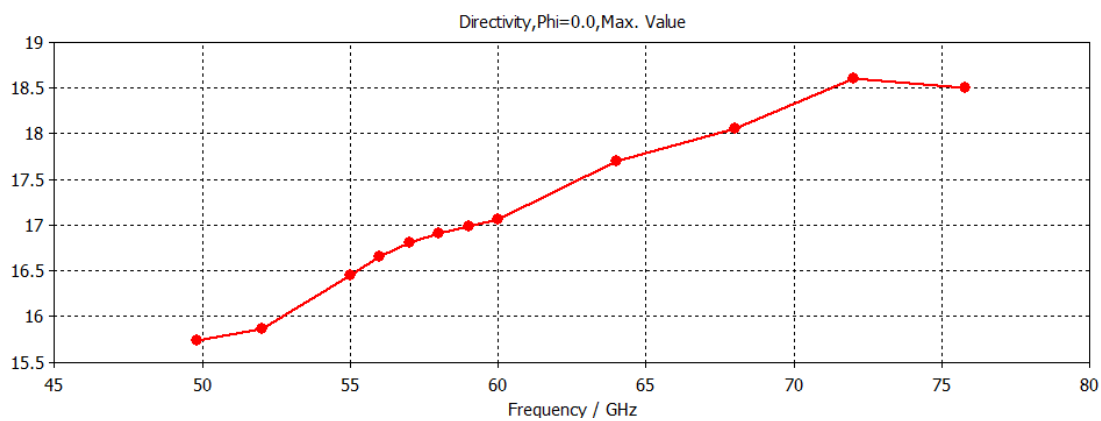
Dimensions(mm)



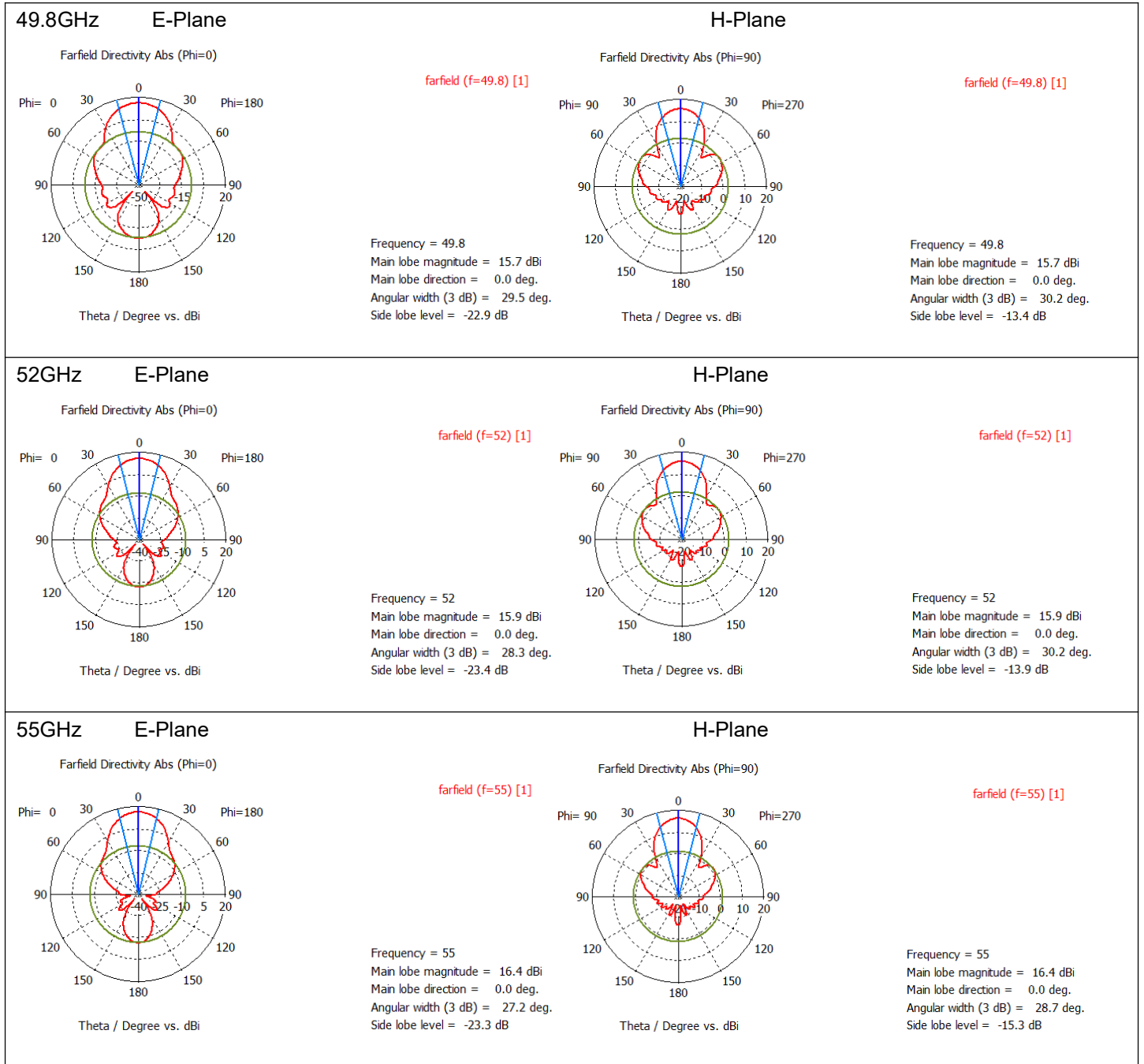
Typical Return Loss



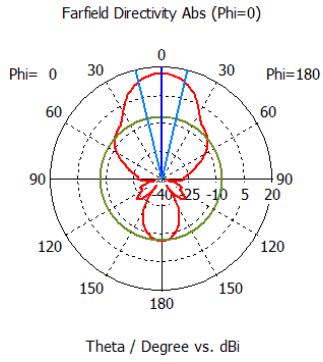
Gain



Simulated Antenna Patterns



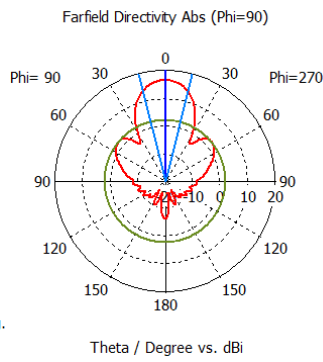
56GHz E-Plane



farfield (f=56) [1]

Frequency = 56
Main lobe magnitude = 16.6 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 26.6 deg.
Side lobe level = -23.3 dB

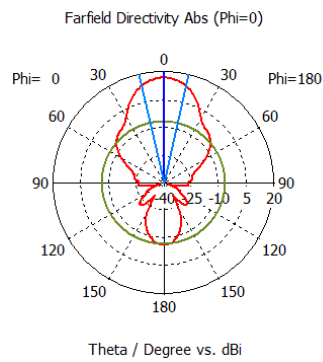
H-Plane



farfield (f=56) [1]

Frequency = 56
Main lobe magnitude = 16.6 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 27.9 deg.
Side lobe level = -14.5 dB

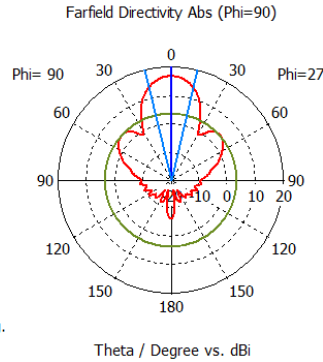
58GHz E-Plane



farfield (f=58) [1]

Frequency = 58
Main lobe magnitude = 16.9 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 25.5 deg.
Side lobe level = -23.4 dB

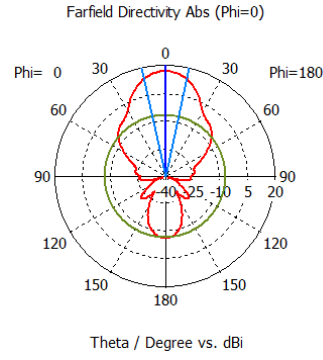
H-Plane



farfield (f=58) [1]

Frequency = 58
Main lobe magnitude = 16.9 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 26.7 deg.
Side lobe level = -13.2 dB

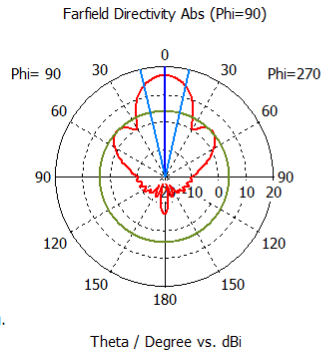
59GHz E-Plane



farfield (f=59) [1]

Frequency = 59
Main lobe magnitude = 17.0 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 25.1 deg.
Side lobe level = -23.6 dB

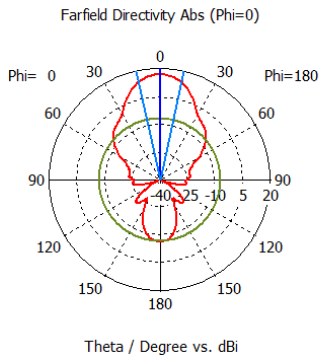
H-Plane



farfield (f=59) [1]

Frequency = 59
Main lobe magnitude = 17.0 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 26.3 deg.
Side lobe level = -13.0 dB

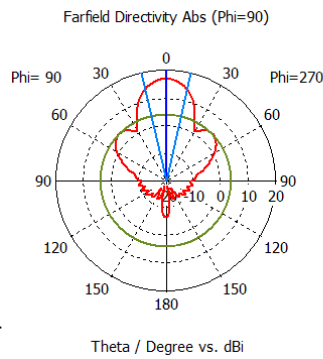
60GHz E-Plane



farfield (f=60) [1]

Frequency = 60
Main lobe magnitude = 17.1 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 24.9 deg.
Side lobe level = -23.7 dB

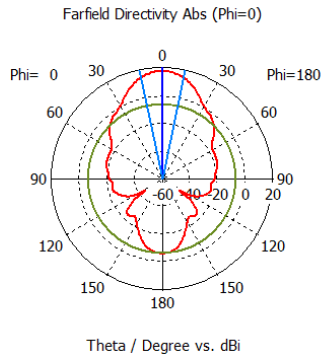
H-Plane



farfield (f=60) [1]

Frequency = 60
Main lobe magnitude = 17.1 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 26.0 deg.
Side lobe level = -13.0 dB

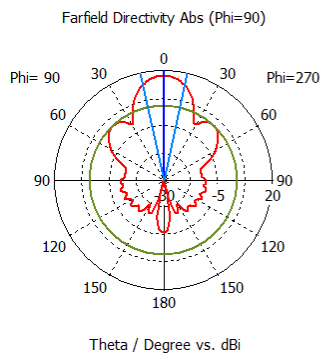
64GHz E-Plane



farfield (f=64) [1]

Frequency = 64
 Main lobe magnitude = 17.7 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 23.5 deg.
 Side lobe level = -23.9 dB

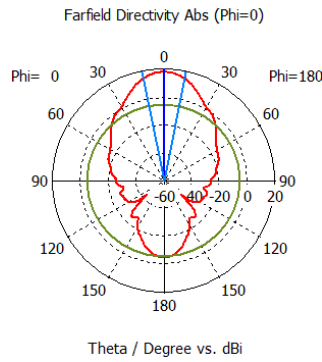
64GHz H-Plane



farfield (f=64) [1]

Frequency = 64
 Main lobe magnitude = 17.7 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 24.5 deg.
 Side lobe level = -13.6 dB

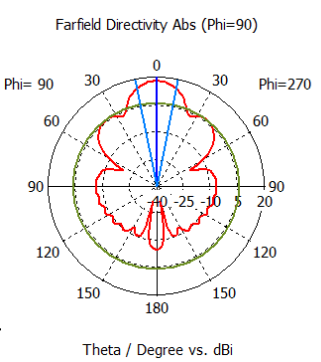
68GHz E-Plane



farfield (f=68) [1]

Frequency = 68
 Main lobe magnitude = 18.1 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 22.4 deg.
 Side lobe level = -23.3 dB

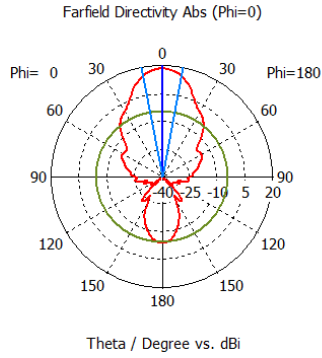
68GHz H-Plane



farfield (f=68) [1]

Frequency = 68
 Main lobe magnitude = 18.1 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 22.5 deg.
 Side lobe level = -11.9 dB

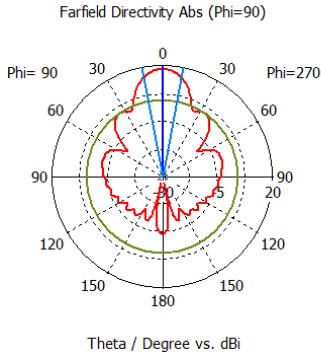
72GHz E-Plane



farfield (f=72) [1]

Frequency = 72
 Main lobe magnitude = 18.6 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 21.2 deg.
 Side lobe level = -22.8 dB

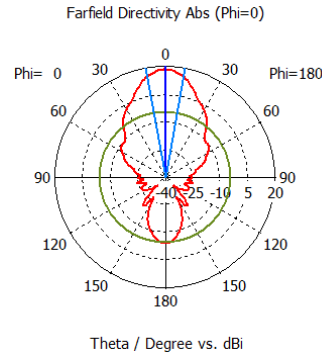
72GHz H-Plane



farfield (f=72) [1]

Frequency = 72
 Main lobe magnitude = 18.6 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 21.7 deg.
 Side lobe level = -14.1 dB

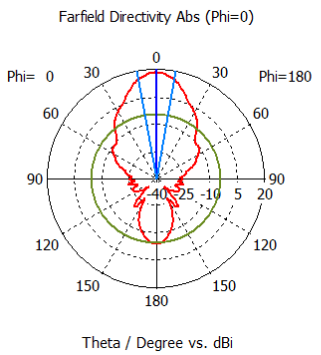
75.8GHz E-Plane



farfield (f=75.8) [1]

Frequency = 75.8
 Main lobe magnitude = 18.5 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 20.7 deg.
 Side lobe level = -22.7 dB

75.8GHz H-Plane



farfield (f=75.8) [1]

Frequency = 75.8
 Main lobe magnitude = 18.5 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 20.7 deg.
 Side lobe level = -22.7 dB