



20 dBi Gain, 60.5-91.9 GHz, WR12 Standard Gain Horn with UG387/U-Mod Flange

Rev 1

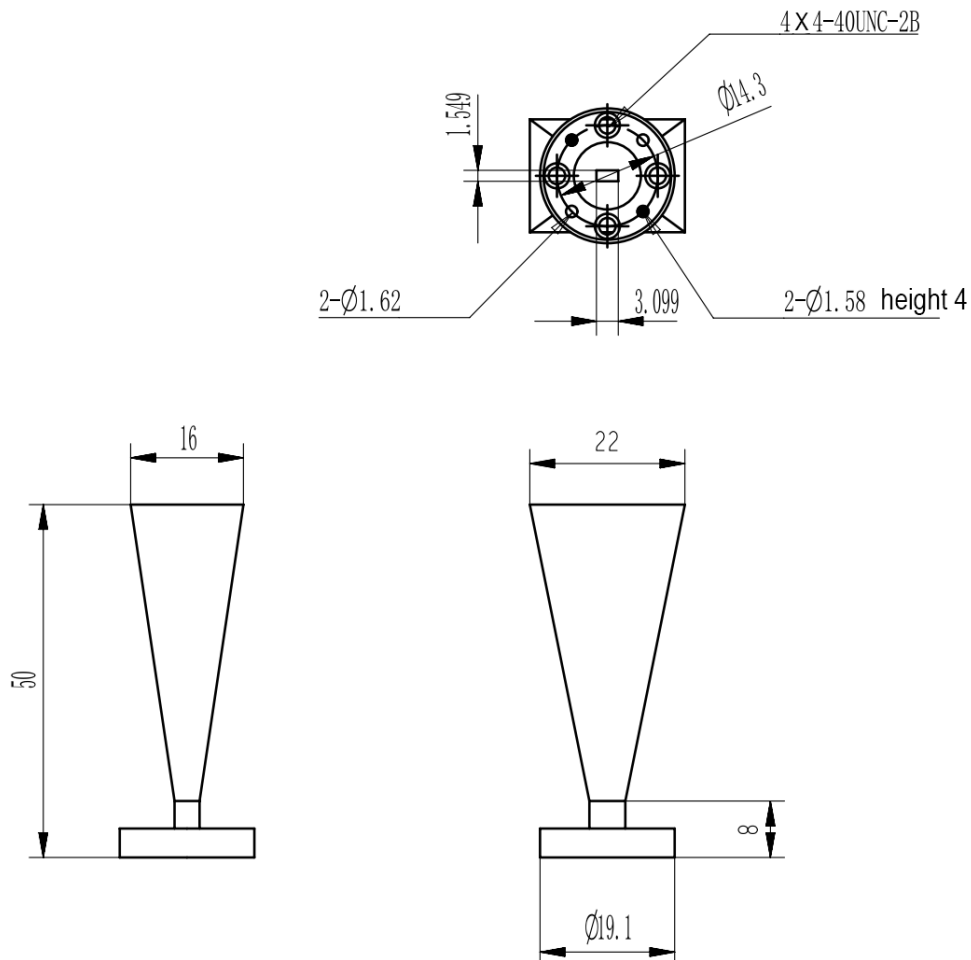
Electrical

Frequency Range	60.5-91.9 GHz
Norminal Gain	20 dBi
Polarization	Linear
VSWR	1.2 max
3dB Beamwidth	E-Plane: 11.2~15.9 deg, H-Plane: 10.6~15.0 deg
Operating Temperature	-40°C~+70°C

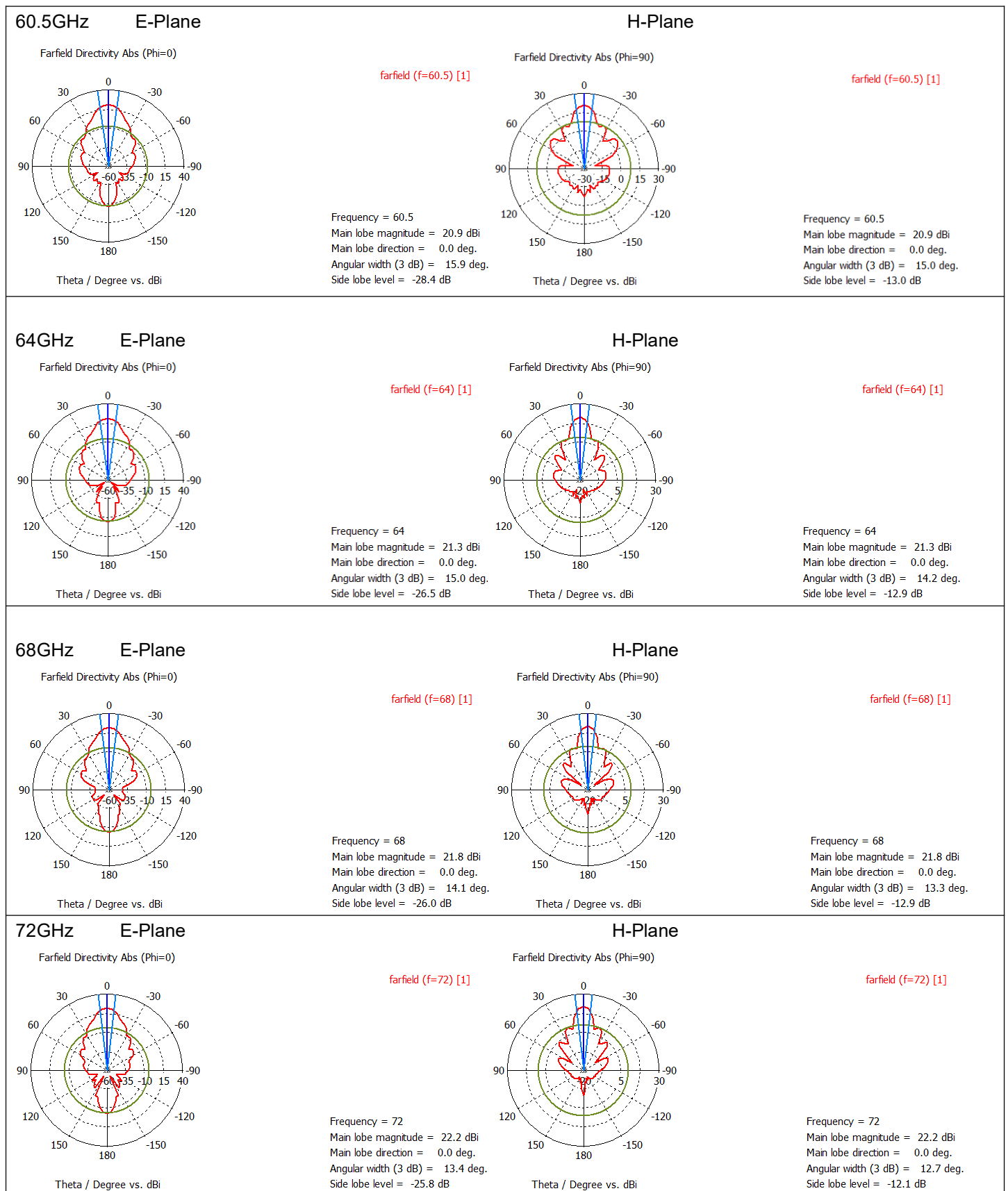
Mechanical

Waveguide Size	WR12
Flange Type	UG387/U-Mod Round Cover Flange
Body Material and Finish	Copper, painting over gold plating

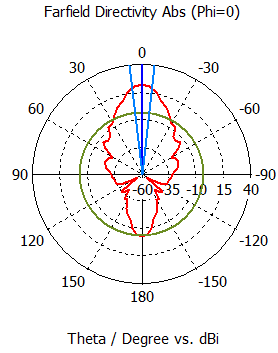
Dimensions(mm)



Simulated Antenna Patterns



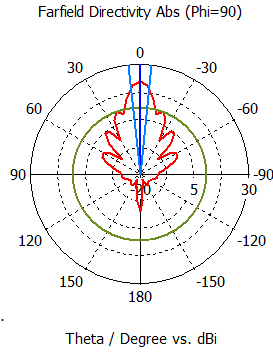
76GHz E-Plane



farfield (f=76) [1]

Frequency = 76
 Main lobe magnitude = 22.6 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 12.8 deg.
 Side lobe level = -25.8 dB

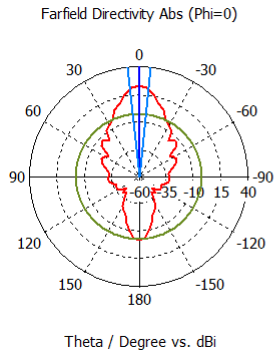
H-Plane



farfield (f=76) [1]

Frequency = 76
 Main lobe magnitude = 22.6 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 12.1 deg.
 Side lobe level = -11.8 dB

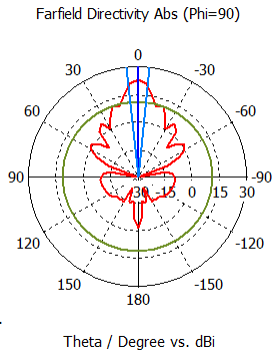
80GHz E-Plane



farfield (f=80) [1]

Frequency = 80
 Main lobe magnitude = 23.0 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 12.3 deg.
 Side lobe level = -25.1 dB

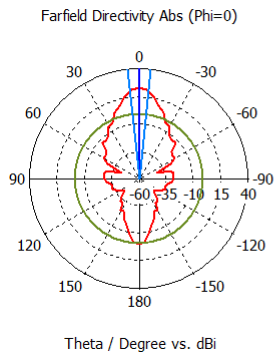
H-Plane



farfield (f=80) [1]

Frequency = 80
 Main lobe magnitude = 23.0 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 11.6 deg.
 Side lobe level = -11.8 dB

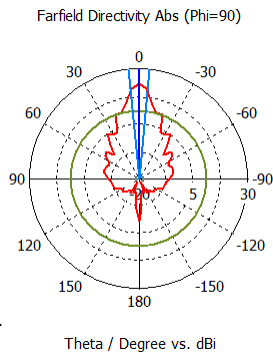
84GHz E-Plane



farfield (f=84) [1]

Frequency = 84
 Main lobe magnitude = 23.2 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 11.9 deg.
 Side lobe level = -24.0 dB

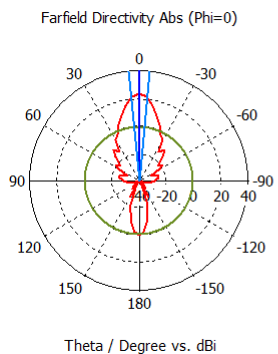
H-Plane



farfield (f=84) [1]

Frequency = 84
 Main lobe magnitude = 23.2 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 11.3 deg.
 Side lobe level = -12.0 dB

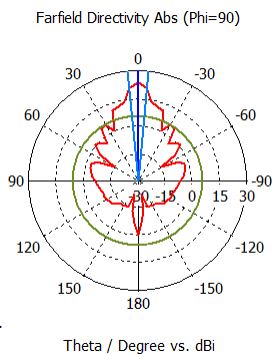
88GHz E-Plane



farfield (f=88) [1]

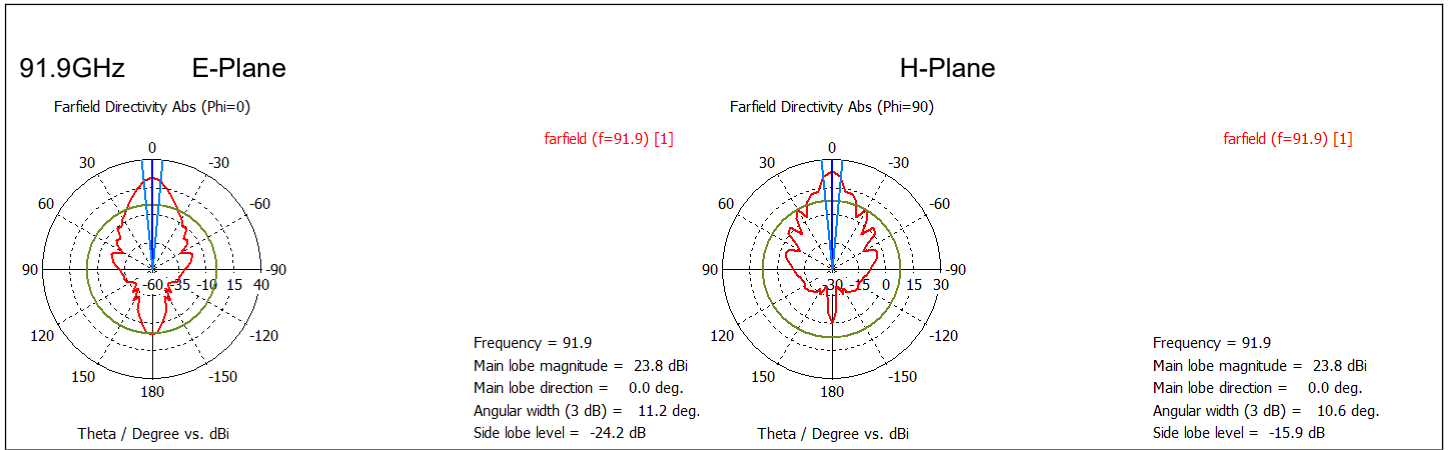
Frequency = 88
 Main lobe magnitude = 23.6 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 11.5 deg.
 Side lobe level = -24.0 dB

H-Plane

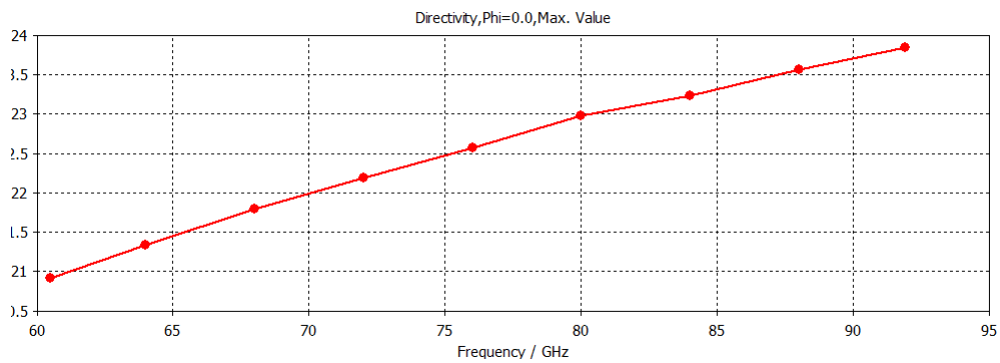


farfield (f=88) [1]

Frequency = 88
 Main lobe magnitude = 23.6 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 10.9 deg.
 Side lobe level = -17.9 dB



Typical Gain



Typical VSWR

