



20 dBi Gain, 21.7-33 GHz, WR34 Standard Gain Horn with UBR260 Flange

Rev 1

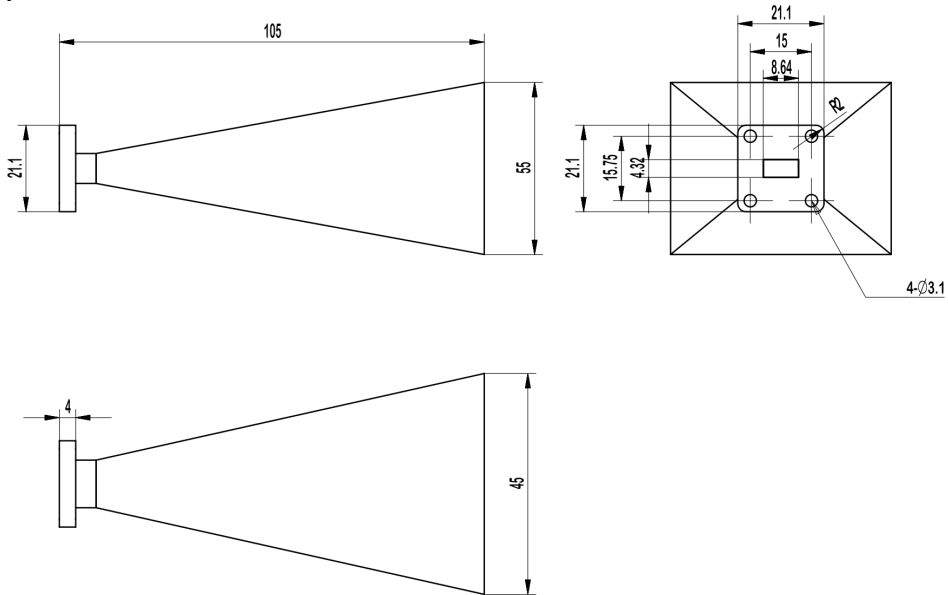
Electrical

Frequency Range	21.7-33 GHz
Norminal Gain	20 dBi
Polarization	Linear
VSWR	1.2 max
3dB Beamwidth	E-Plane: 12.5~17.8 deg, H-Plane: 11.1~15.8 deg
Operating Temperature	-40°C~+70°C

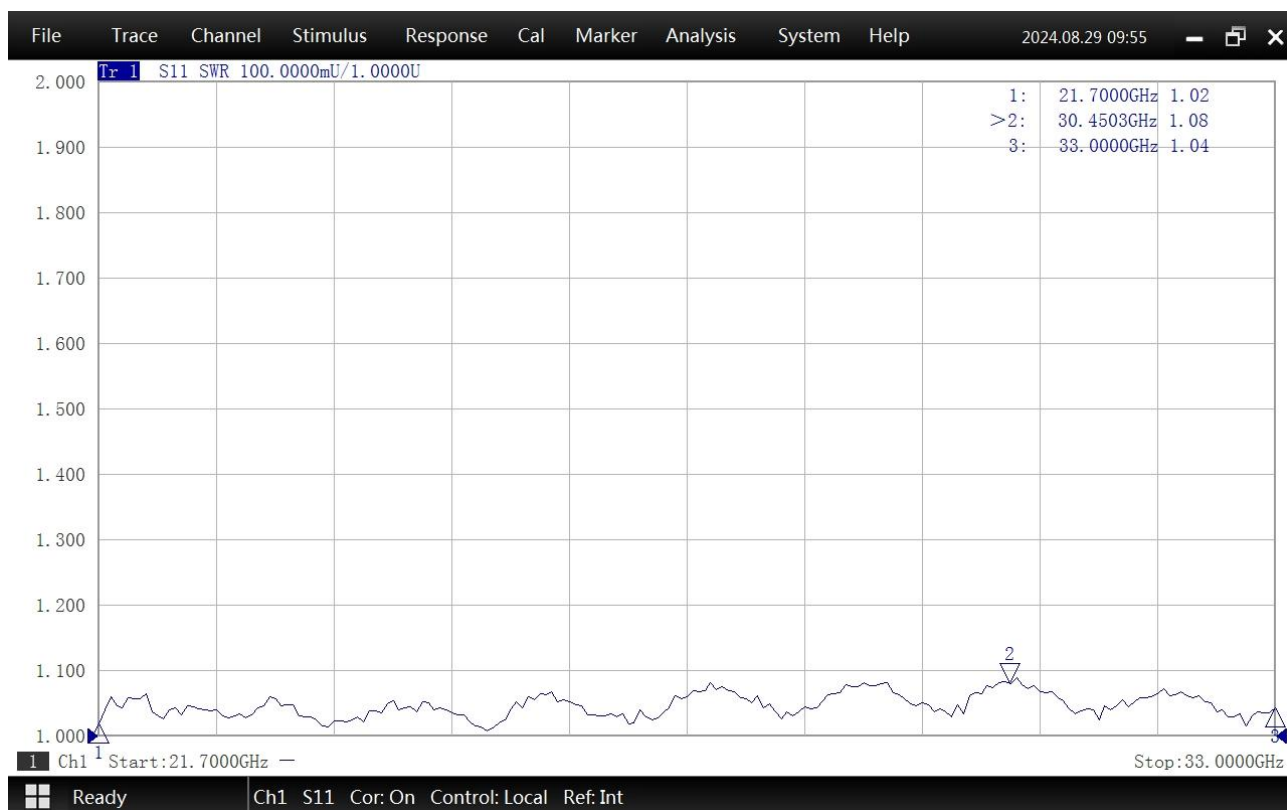
Mechanical

Waveguide Size	WR34
Flange Type	UBR260 Square Cover Flange
Body Material and Finish	Copper, Painted
Net Weight	105g

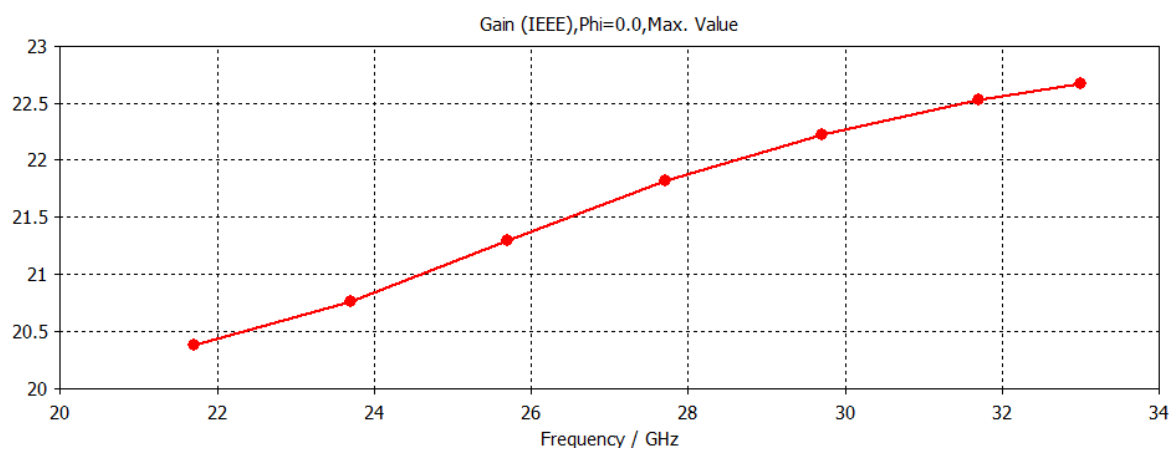
Dimensions(mm)



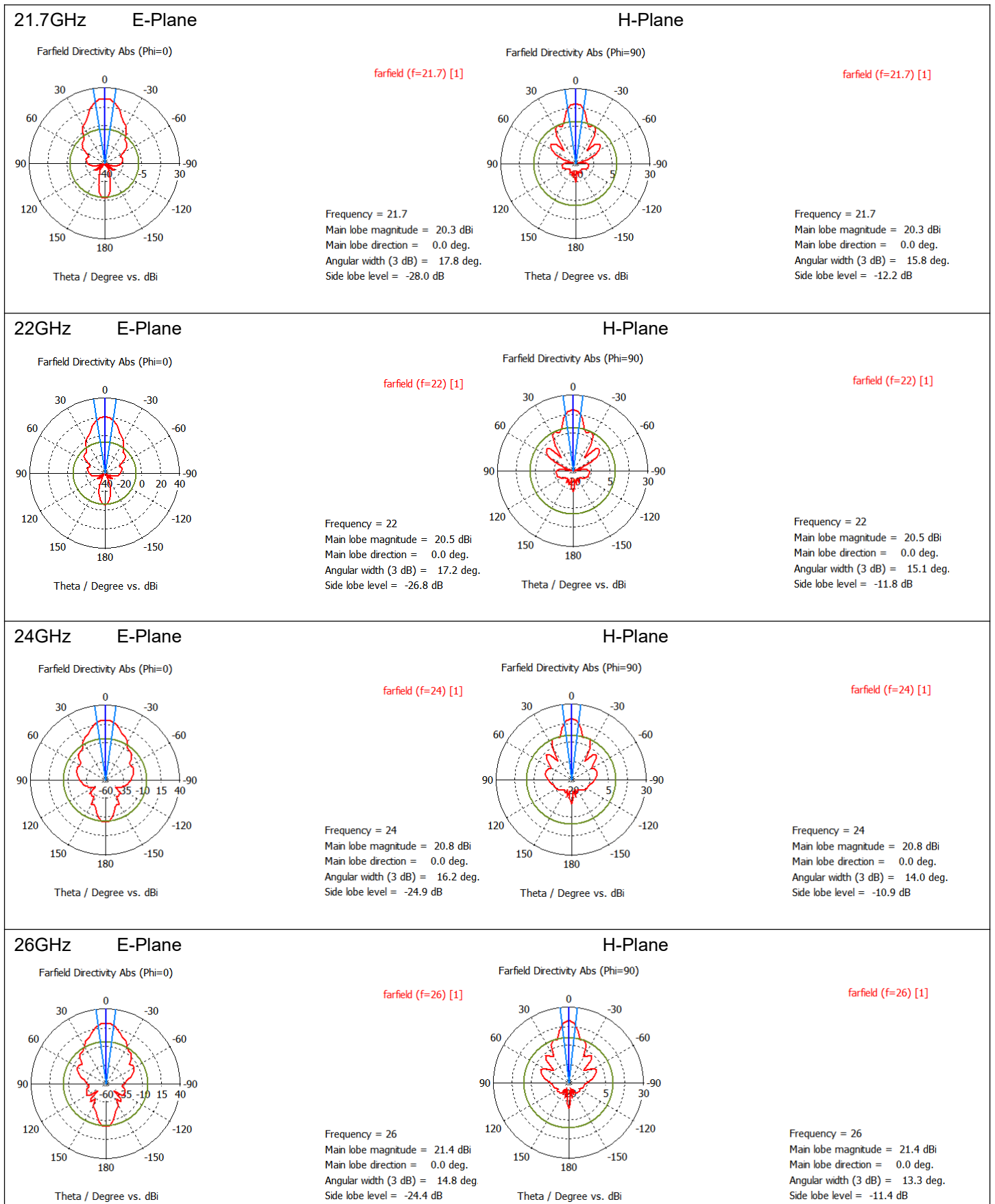
Typical VSWR



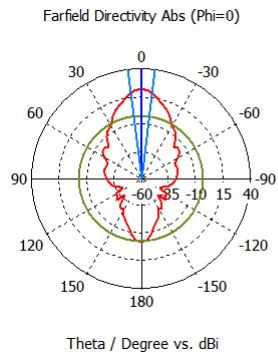
Gain



Simulated Antenna Patterns



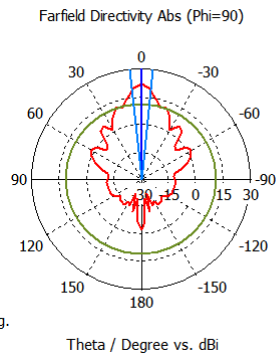
28GHz E-Plane



farfield (f=28) [1]

Frequency = 28
 Main lobe magnitude = 21.9 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 14.0 deg.
 Side lobe level = -24.6 dB

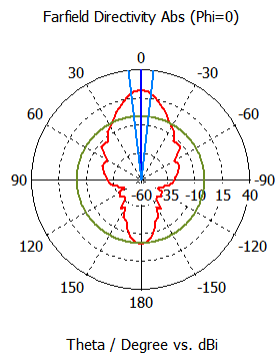
H-Plane



farfield (f=28) [1]

Frequency = 28
 Main lobe magnitude = 21.9 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 12.2 deg.
 Side lobe level = -10.7 dB

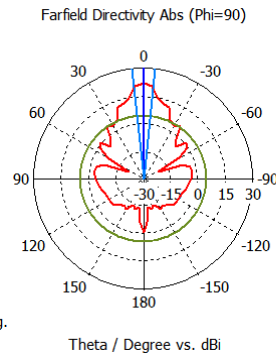
30GHz E-Plane



farfield (f=30) [1]

Frequency = 30
 Main lobe magnitude = 22.3 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 13.1 deg.
 Side lobe level = -23.4 dB

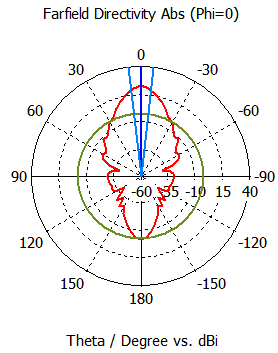
H-Plane



farfield (f=30) [1]

Frequency = 30
 Main lobe magnitude = 22.3 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 11.8 deg.
 Side lobe level = -17.6 dB

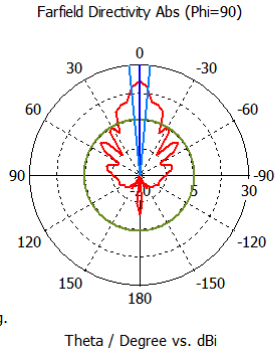
32GHz E-Plane



farfield (f=32) [1]

Frequency = 32
 Main lobe magnitude = 22.7 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 12.7 deg.
 Side lobe level = -24.7 dB

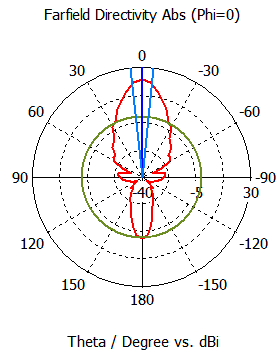
H-Plane



farfield (f=32) [1]

Frequency = 32
 Main lobe magnitude = 22.7 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 11.2 deg.
 Side lobe level = -17.2 dB

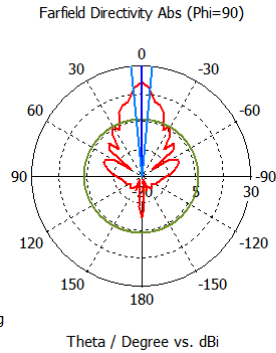
33GHz E-Plane



farfield (f=33) [1]

Frequency = 33
 Main lobe magnitude = 22.7 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 12.5 deg.
 Side lobe level = -23.9 dB

H-Plane



farfield (f=33) [1]

Frequency = 33
 Main lobe magnitude = 22.7 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 11.1 deg.
 Side lobe level = -16.6 dB