

20 dBi Gain, 21.7-33 GHz, WR34 Standard Gain Horn with 2.92mm

Female Port

Rev 1

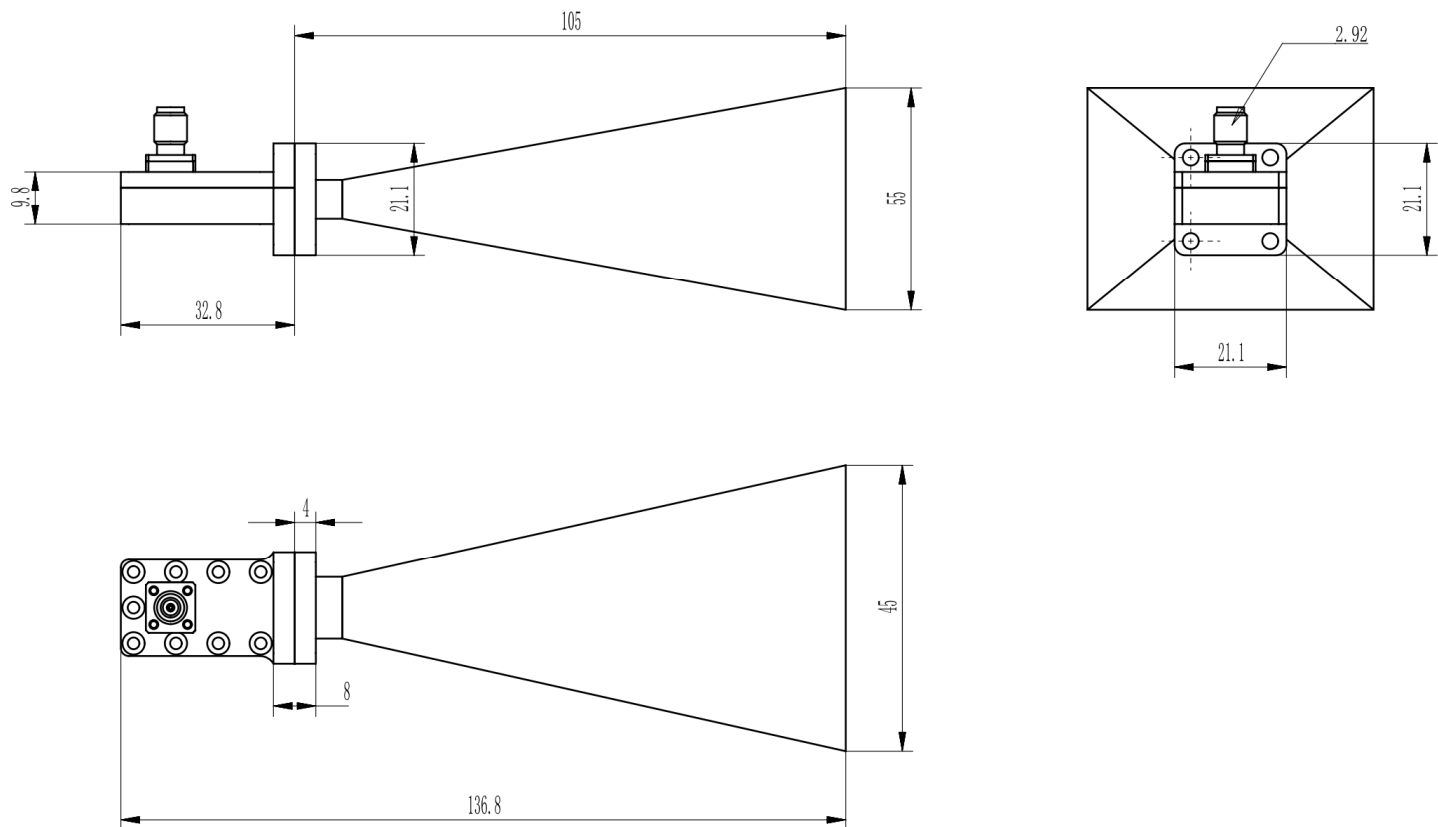
Electrical

Frequency Range	21.7-33 GHz
Norminal Gain	20 dBi
Polarization	Linear
VSWR	1.3 max
3dB Beamwidth	E-Plane: 12.5~17.8 deg, H-Plane: 11.1~15.8 deg
Operating Temperature	-40℃~+70℃

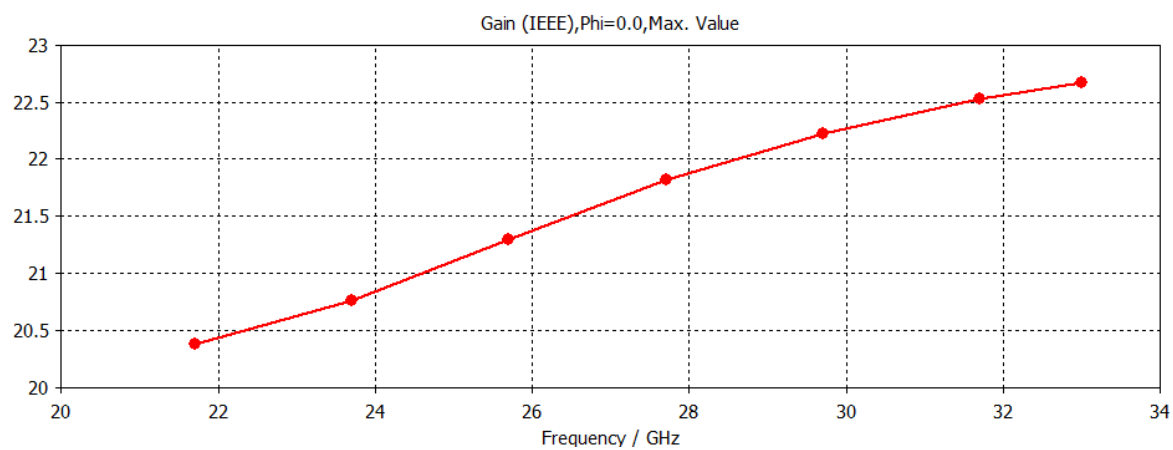
Mechanical

Waveguide Size	WR34
Flange Type	UBR260 Square Cover Flange
Body Material and Finish	Copper, Painted
RF Connector	2.92mm Female

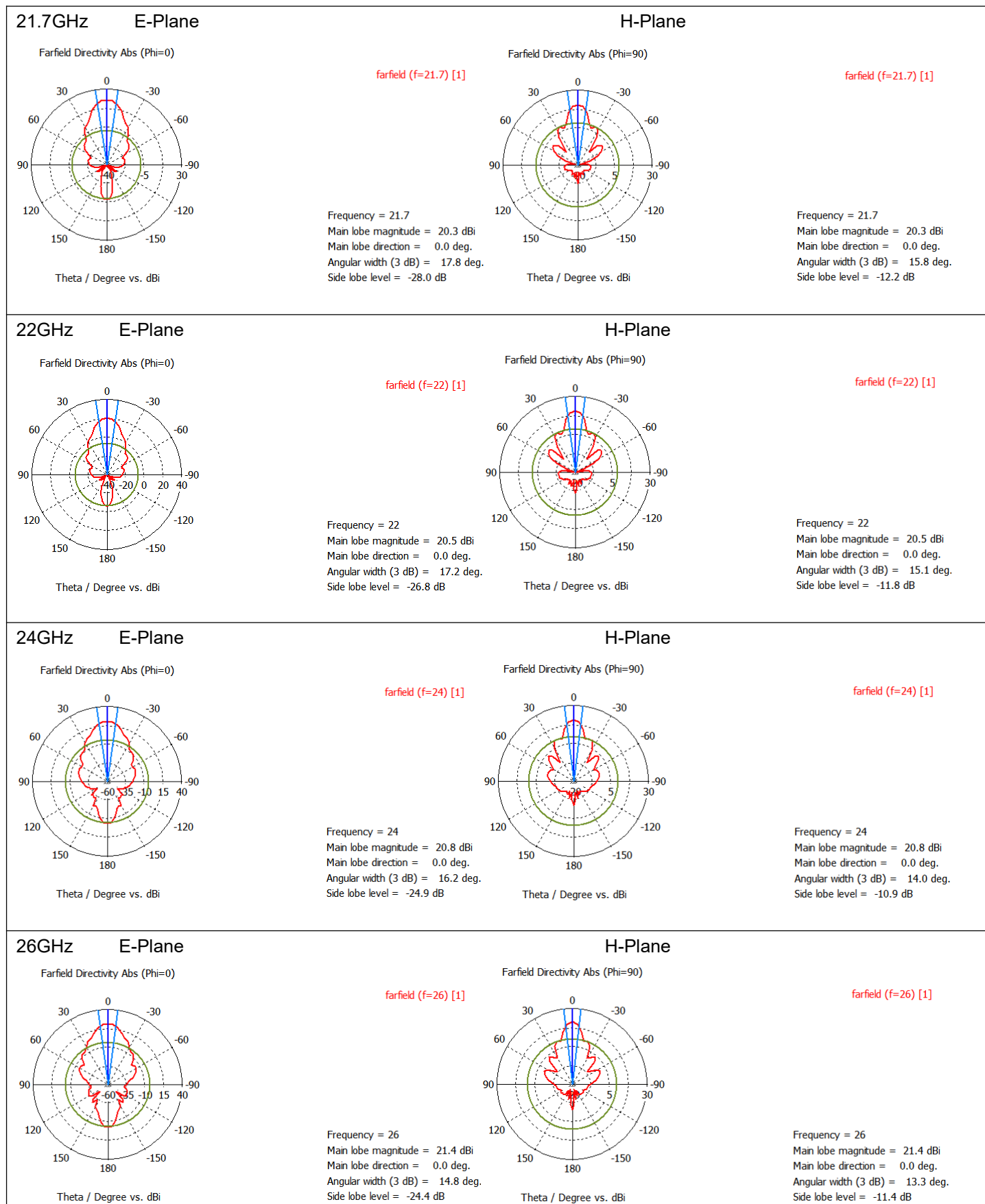
Dimensions(mm)



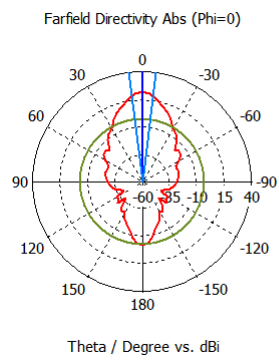
Gain



Simulated Antenna Patterns

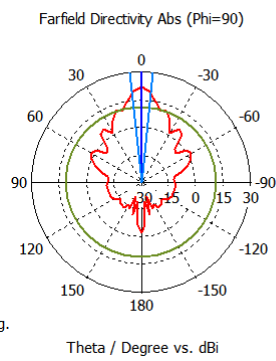


28GHz E-Plane



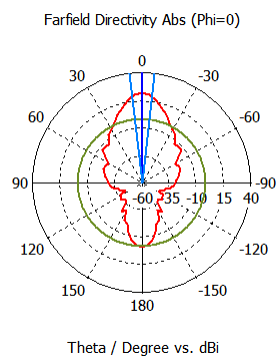
Frequency = 28
Main lobe magnitude = 21.9 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 14.0 deg.
Side lobe level = -24.6 dB

H-Plane



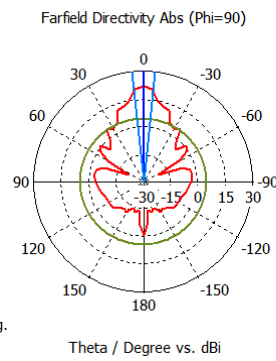
Frequency = 28
Main lobe magnitude = 21.9 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 12.2 deg.
Side lobe level = -10.7 dB

30GHz E-Plane



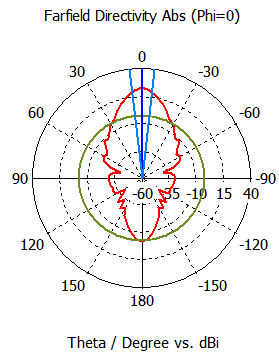
Frequency = 30
Main lobe magnitude = 22.3 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 13.1 deg.
Side lobe level = -23.4 dB

H-Plane



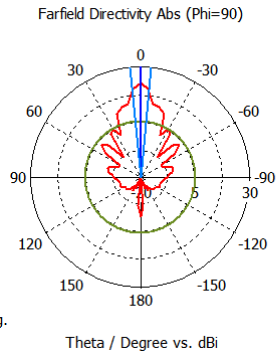
Frequency = 30
Main lobe magnitude = 22.3 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 11.8 deg.
Side lobe level = -17.6 dB

32GHz E-Plane



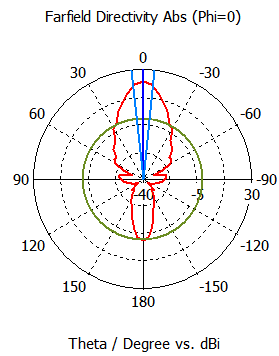
Frequency = 32
Main lobe magnitude = 22.7 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 12.7 deg.
Side lobe level = -24.7 dB

H-Plane



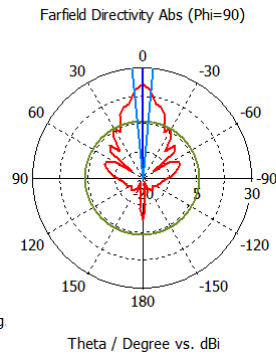
Frequency = 32
Main lobe magnitude = 22.7 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 11.2 deg.
Side lobe level = -17.2 dB

33GHz E-Plane



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



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