

20 dBi Gain, 26.3-40 GHz, WR28 Standard Gain Horn with UBR320 Flange

Rev 1

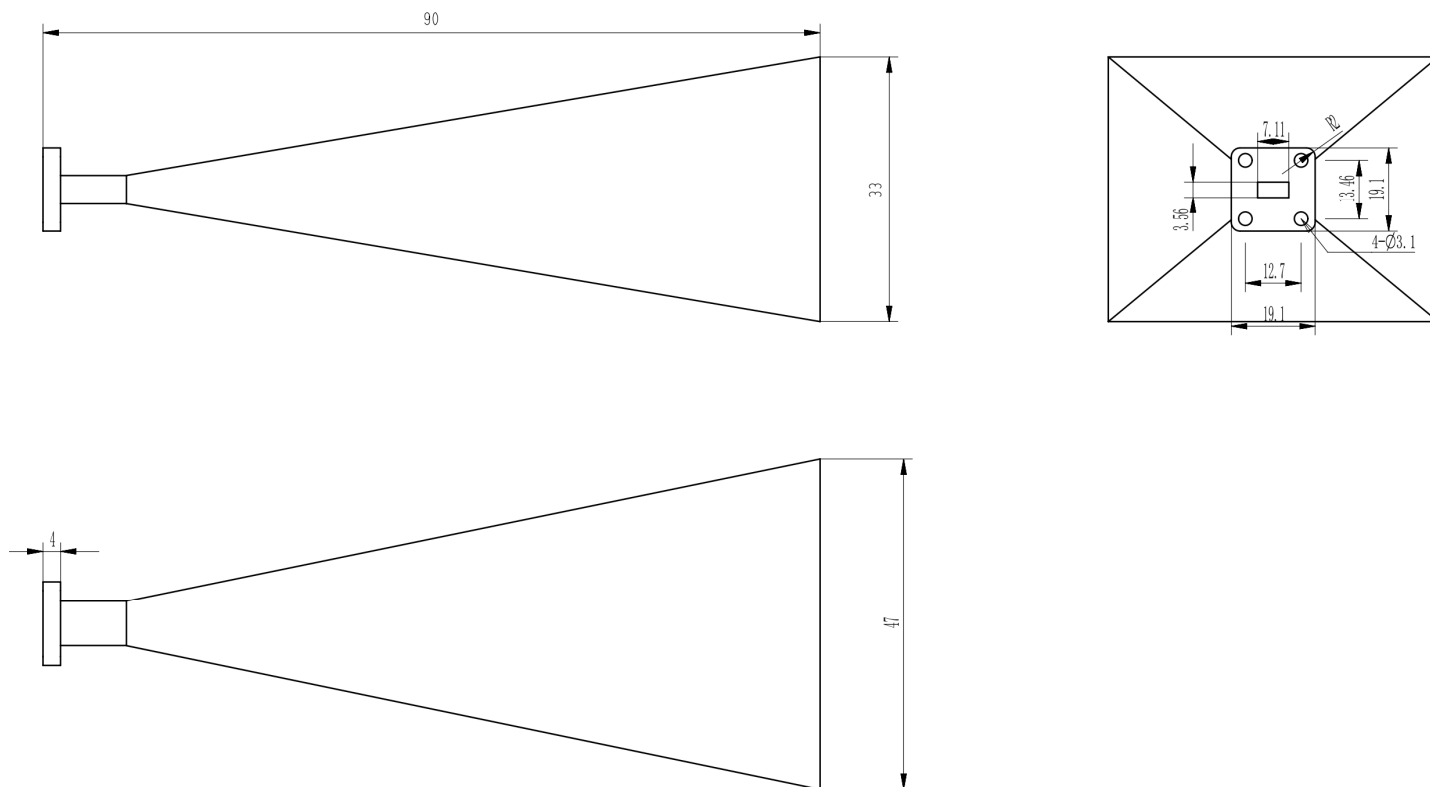
Electrical

Frequency Range	26.3-40 GHz
Norminal Gain	20 dBi
Polarization	Linear
VSWR	1.2 max
3dB Beamwidth	E-Plane: 11.9~17.2 deg, H-Plane: 11.6~17.7 deg
Operating Temperature	-40℃~+70℃

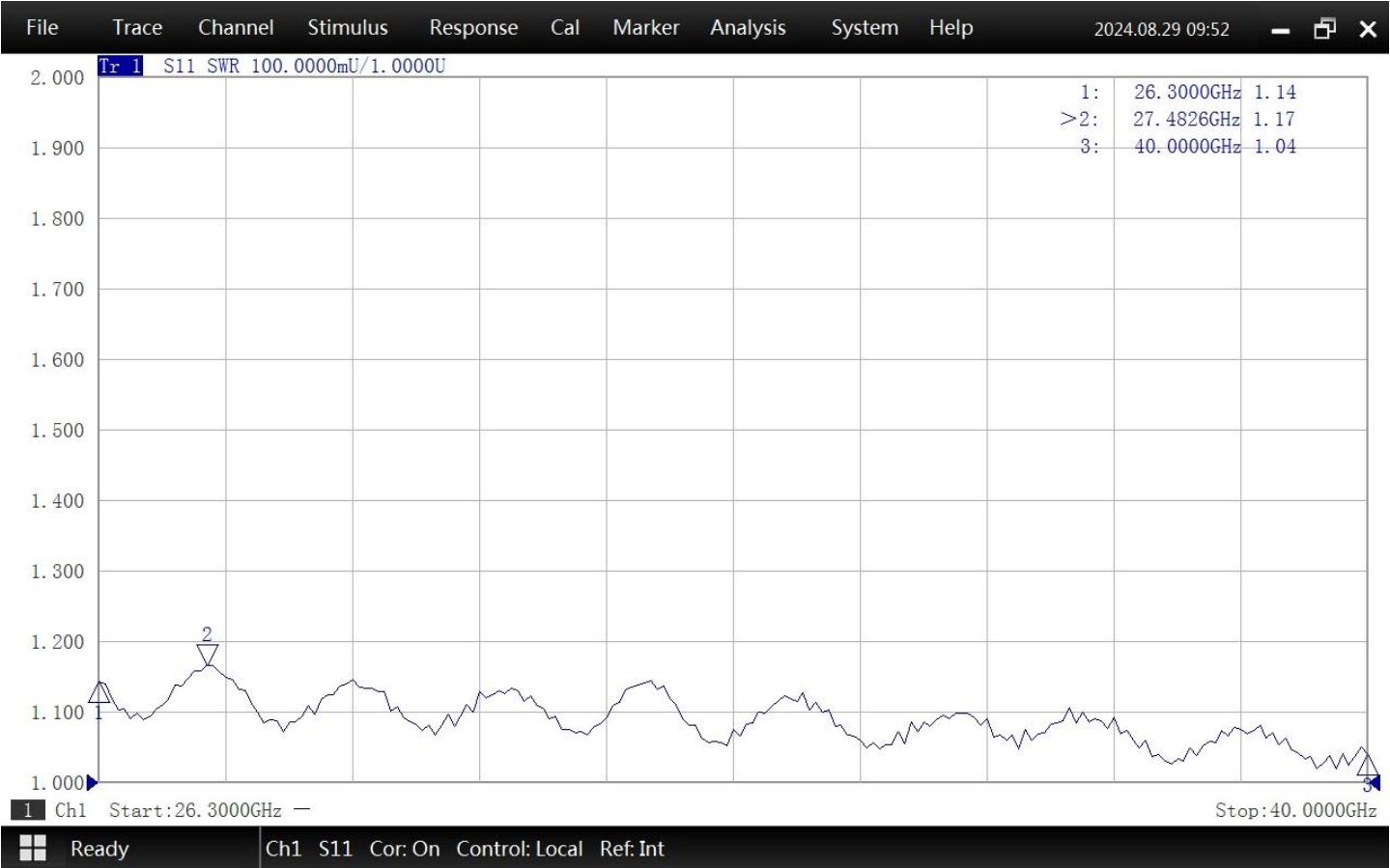
Mechanical

Waveguide Size	WR28
Flange Type	UBR320 Square Cover Flange
Body Material and Finish	Copper, Painted
Net Weight	75g

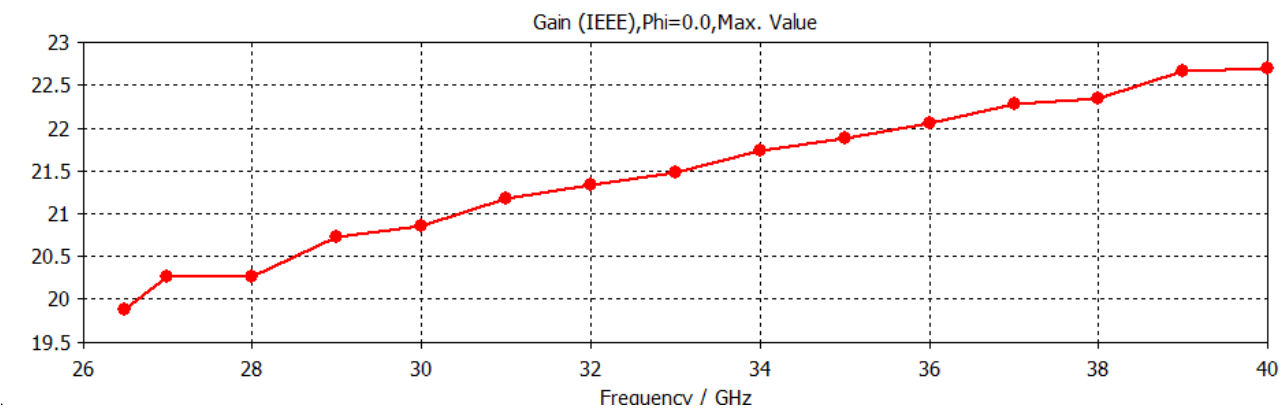
Dimensions(mm)



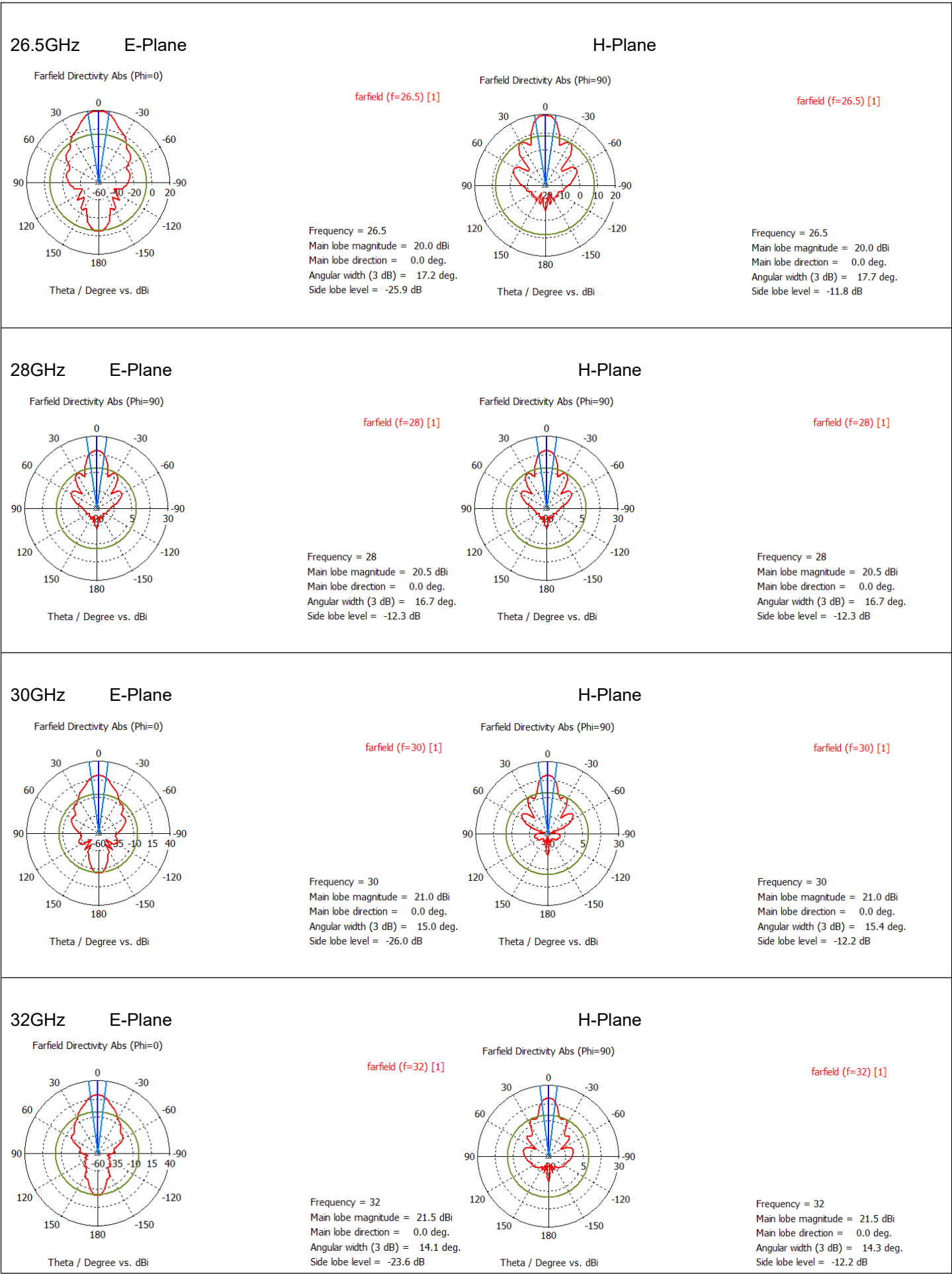
Typical VSWR



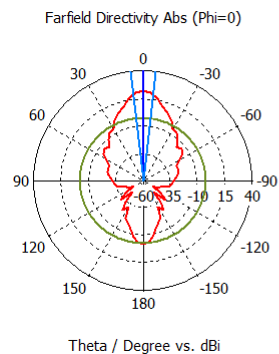
Gain



Simulated Antenna Patterns

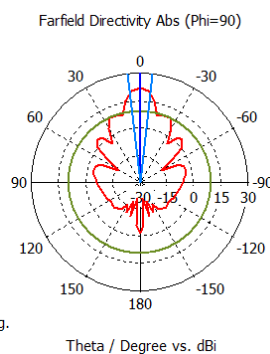


34GHz E-Plane



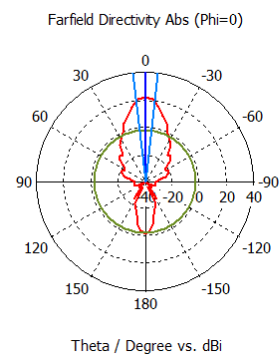
Frequency = 34
Main lobe magnitude = 21.9 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 13.4 deg.
Side lobe level = -24.2 dB

H-Plane



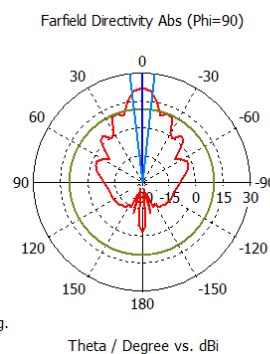
Frequency = 34
Main lobe magnitude = 21.9 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 13.5 deg.
Side lobe level = -12.4 dB

36GHz E-Plane



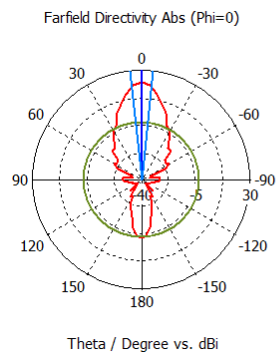
Frequency = 36
Main lobe magnitude = 22.3 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 12.8 deg.
Side lobe level = -24.6 dB

H-Plane



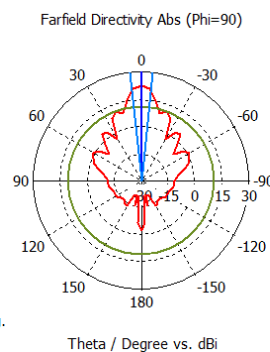
Frequency = 36
Main lobe magnitude = 22.3 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 12.9 deg.
Side lobe level = -11.9 dB

38GHz E-Plane



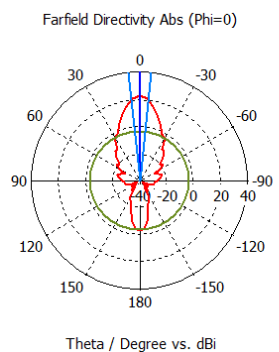
Frequency = 38
Main lobe magnitude = 22.6 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 12.3 deg.
Side lobe level = -25.3 dB

H-Plane



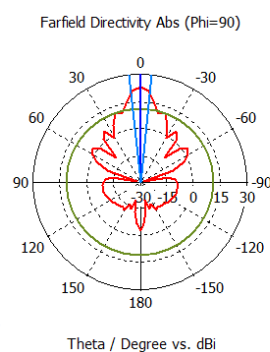
Frequency = 38
Main lobe magnitude = 22.6 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 12.3 deg.
Side lobe level = -11.6 dB

40GHz E-Plane



Frequency = 40
Main lobe magnitude = 23.1 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 11.9 deg.
Side lobe level = -26.3 dB

H-Plane



Frequency = 40
Main lobe magnitude = 23.1 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 11.6 deg.
Side lobe level = -12.0 dB