RH28-292-20

20 dBi Gain, 26.3-40 GHz, WR28 Standard Gain Horn with 2.92mm Female Port

Rev 1

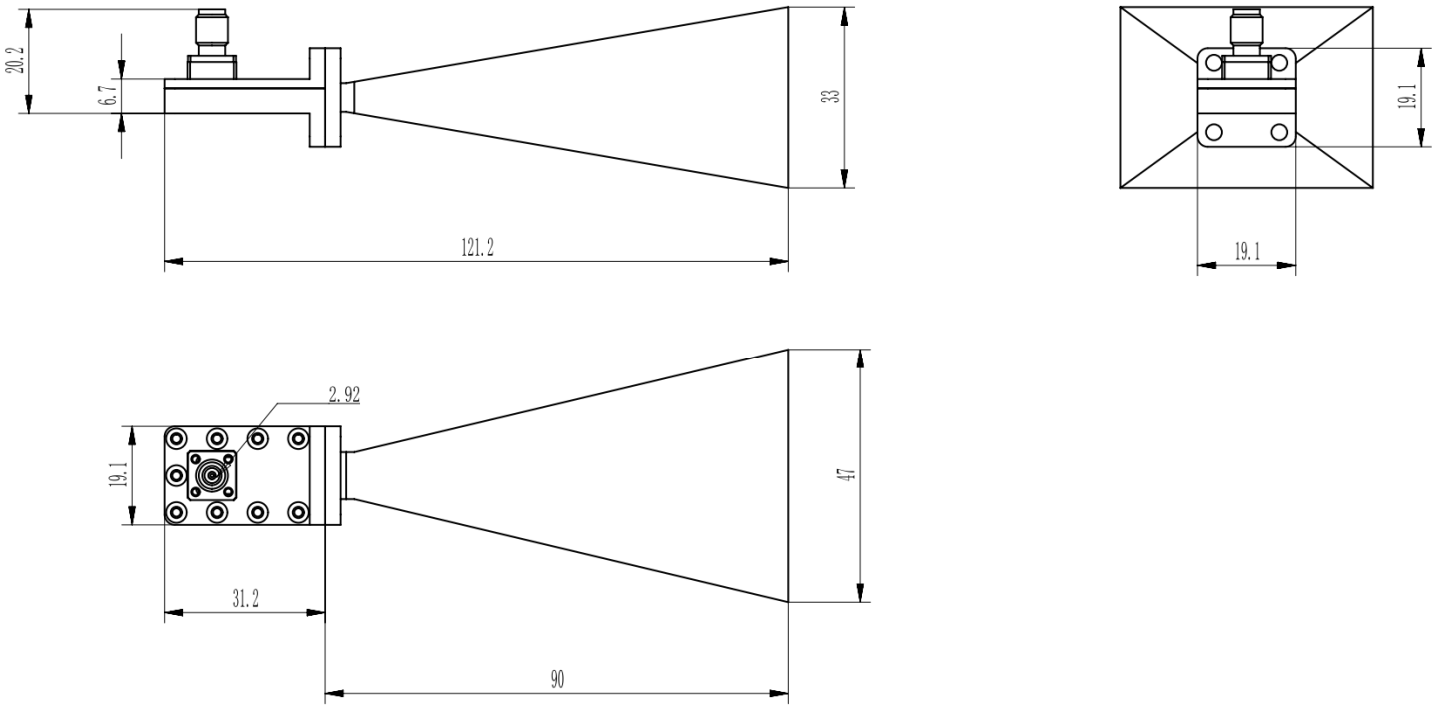
Electrical

Frequency Range	26.3-40 GHz
Norminal Gain	20 dBi
Polarization	Linear
VSWR	1.3 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
RF Connector	2.92mm Female
Net Weight	Approx 120g

Dimensions(mm)



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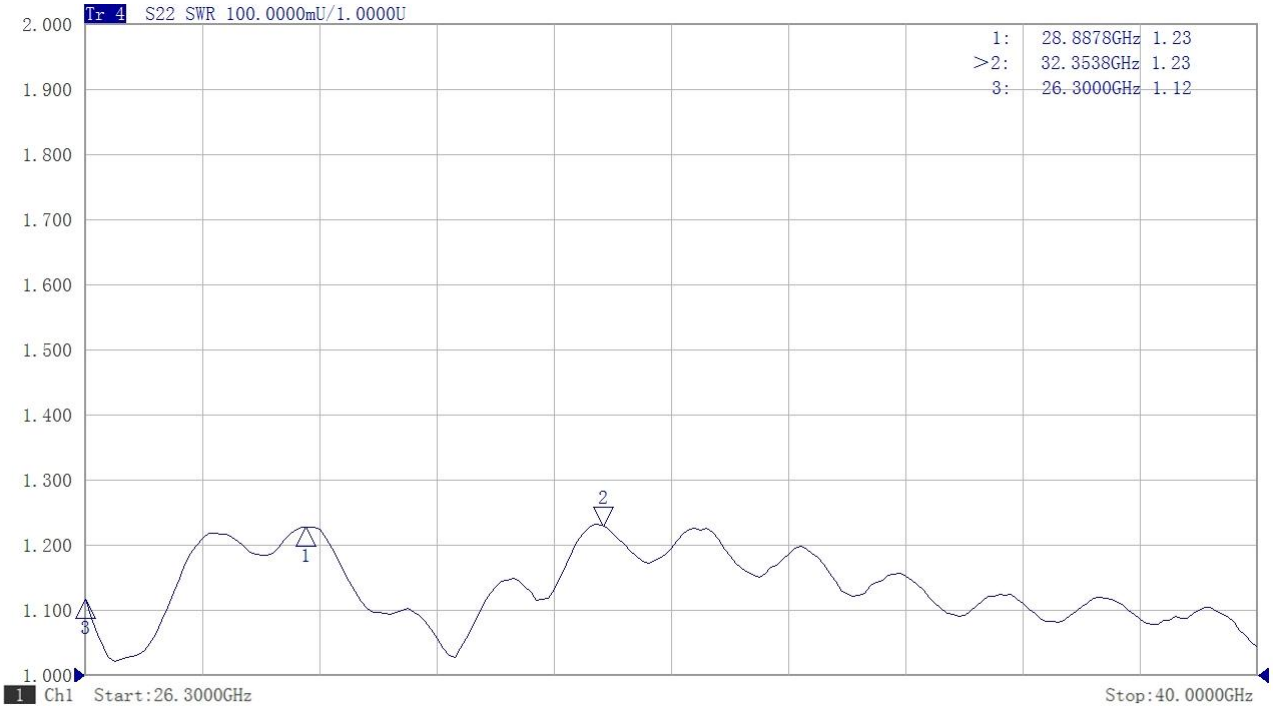
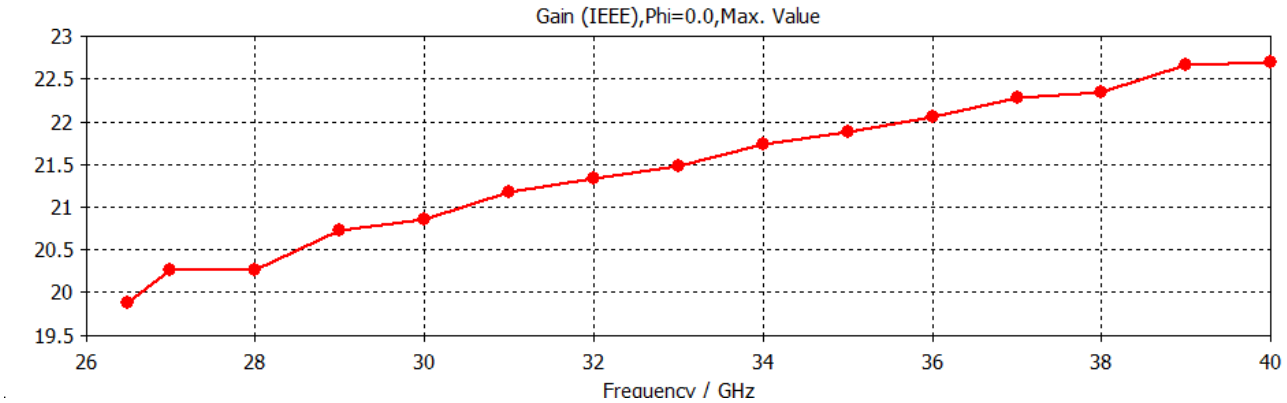
Rev 1

Typical Test Data

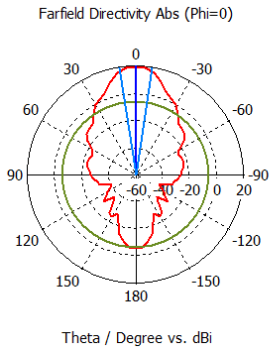


Gain



Simulated Antenna Patterns

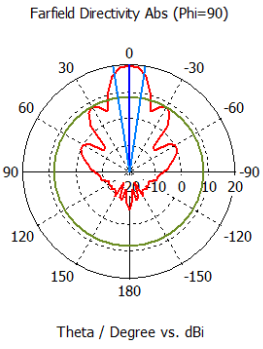
26.5GHz E-Plane



farfield (f=26.5) [1]

Frequency = 26.5
Main lobe magnitude = 20.0 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 17.2 deg.
Side lobe level = -25.9 dB

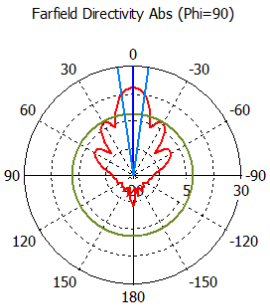
H-Plane



farfield (f=26.5) [1]

Frequency = 26.5
Main lobe magnitude = 20.0 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 17.7 deg.
Side lobe level = -11.8 dB

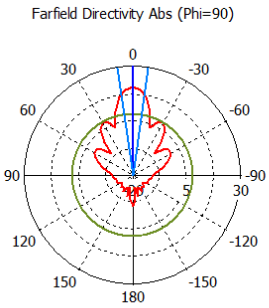
28GHz E-Plane



farfield (f=28) [1]

Frequency = 28
Main lobe magnitude = 20.5 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 16.7 deg.
Side lobe level = -12.3 dB

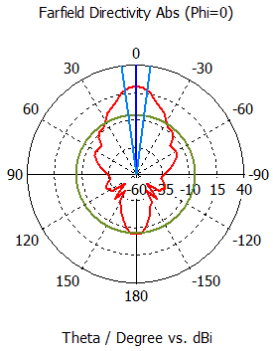
H-Plane



farfield (f=28) [1]

Frequency = 28
Main lobe magnitude = 20.5 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 16.7 deg.
Side lobe level = -12.3 dB

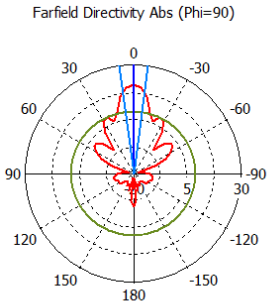
30GHz E-Plane



farfield (f=30) [1]

Frequency = 30
Main lobe magnitude = 21.0 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 15.0 deg.
Side lobe level = -26.0 dB

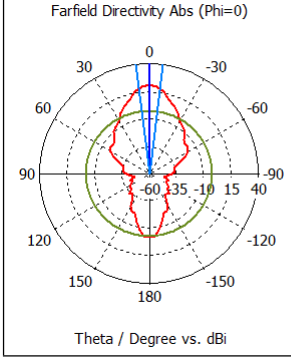
H-Plane



farfield (f=30) [1]

Frequency = 30
Main lobe magnitude = 21.0 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 15.4 deg.
Side lobe level = -12.2 dB

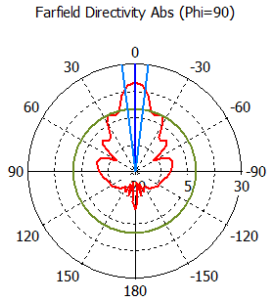
32GHz E-Plane



farfield (f=32) [1]

Frequency = 32
Main lobe magnitude = 21.5 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 14.1 deg.
Side lobe level = -23.6 dB

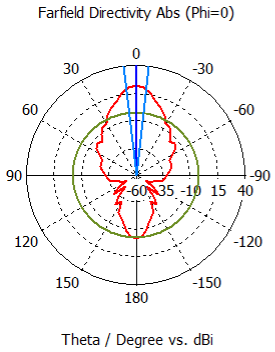
H-Plane



farfield (f=32) [1]

Frequency = 32
Main lobe magnitude = 21.5 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 14.3 deg.
Side lobe level = -12.2 dB

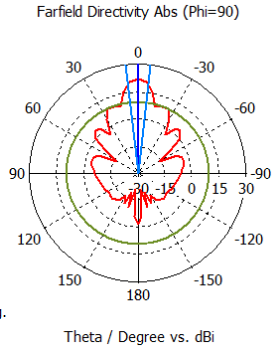
34GHz E-Plane



farfield (f=34) [1]

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

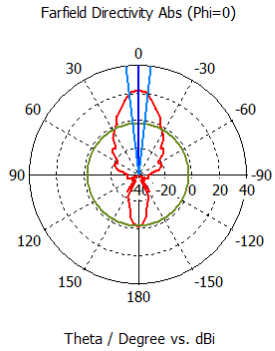
H-Plane



farfield (f=34) [1]

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

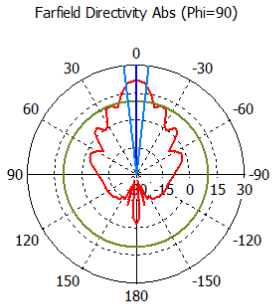
36GHz E-Plane



farfield (f=36) [1]

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

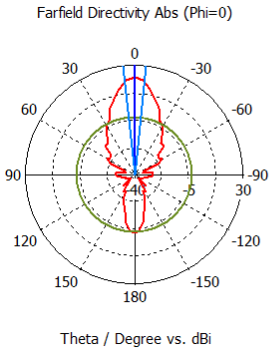
H-Plane



farfield (f=36) [1]

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

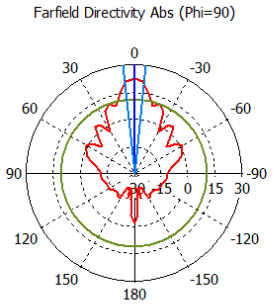
38GHz E-Plane



farfield (f=38) [1]

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

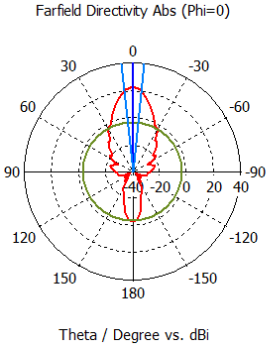
H-Plane



farfield (f=38) [1]

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

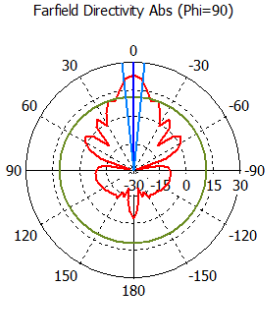
40GHz E-Plane



farfield (f=40) [1]

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



farfield (f=40) [1]

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