RF ONE

RH284-N-20

20 dBi Gain, 2.6-3.95 GHz, WR284 Standard Gain Horn with N Female Port

Rev 1

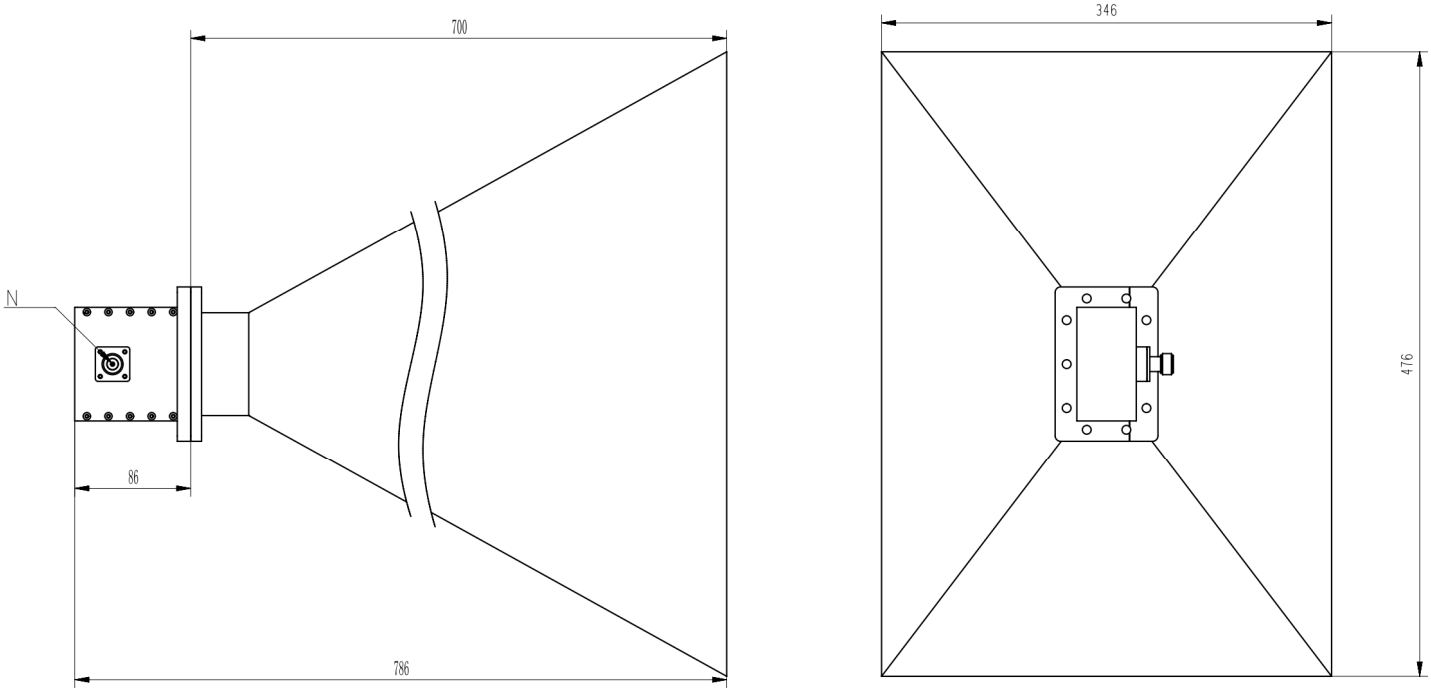
Electrical

Frequency Range	2.6-3.95 GHz
Norminal Gain	20 dBi
Polarization	Linear
VSWR	1.3 max
3dB Beamwidth	E-Plane: 13.1~18.9 deg, H-Plane: 11.8~18.5 deg
Operating Temperature	-40℃~+70℃

Mechanical

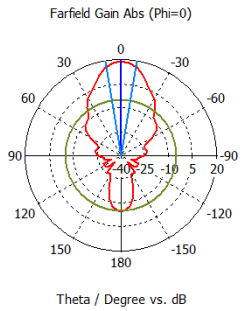
Waveguide Size	WR284
Flange Type	UDR32 Rectangular Cover Flange
Body Material and Finish	Aluminum, Painted
RF Connector	N Female

Dimensions(mm)



Simulated Antenna Patterns

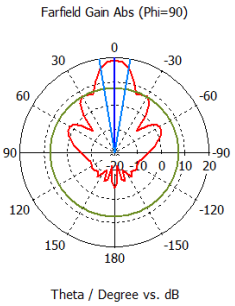
2.4GHz E-Plane



farfield (f=2.4) [1]

Frequency = 2.4
Main lobe magnitude = 19.2 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 18.9 deg.
Side lobe level = -24.3 dB

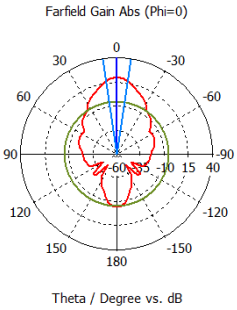
H-Plane



farfield (f=2.4) [1]

Frequency = 2.4
Main lobe magnitude = 19.2 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 18.5 deg.
Side lobe level = -11.7 dB

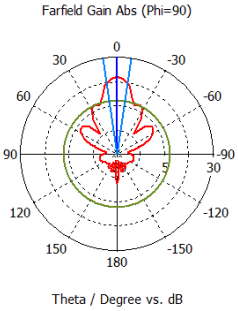
2.7GHz E-Plane



farfield (f=2.7) [1]

Frequency = 2.7
Main lobe magnitude = 20.1 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 17.0 deg.
Side lobe level = -25.2 dB

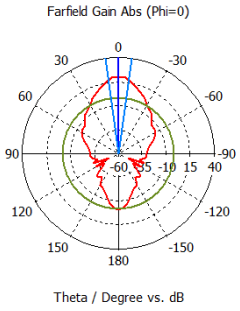
H-Plane



farfield (f=2.7) [1]

Frequency = 2.7
Main lobe magnitude = 20.1 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 16.4 deg.
Side lobe level = -12.1 dB

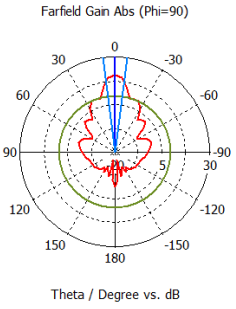
3.0GHz E-Plane



farfield (f=3) [1]

Frequency = 3
Main lobe magnitude = 20.7 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 15.4 deg.
Side lobe level = -22.4 dB

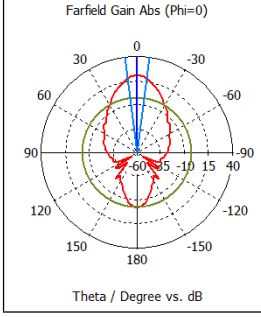
H-Plane



farfield (f=3) [1]

Frequency = 3
Main lobe magnitude = 20.7 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 14.3 deg.
Side lobe level = -11.1 dB

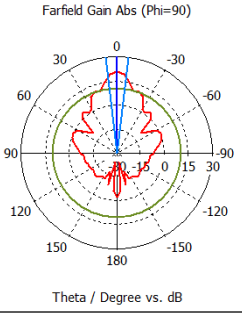
3.3GHz E-Plane



farfield (f=3.3) [1]

Frequency = 3.3
Main lobe magnitude = 21.2 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 14.5 deg.
Side lobe level = -23.7 dB

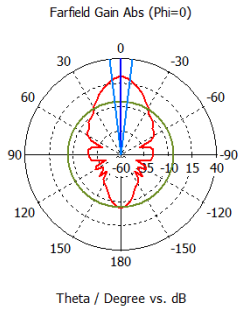
H-Plane



farfield (f=3.3) [1]

Frequency = 3.3
Main lobe magnitude = 21.2 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 13.4 deg.
Side lobe level = -10.4 dB

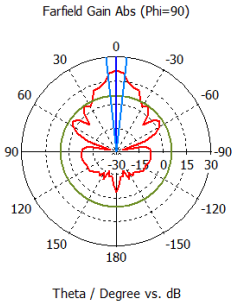
3.7GHz E-Plane



farfield (f=3.7) [1]

Frequency = 3.7
Main lobe magnitude = 21.8 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 13.5 deg.
Side lobe level = -26.0 dB

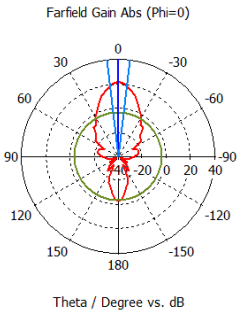
H-Plane



farfield (f=3.7) [1]

Frequency = 3.7
Main lobe magnitude = 21.8 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 12.3 deg.
Side lobe level = -16.4 dB

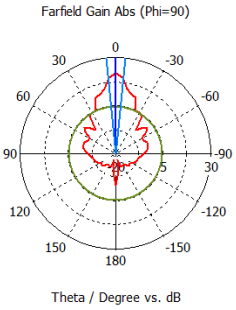
3.95GHz E-Plane



farfield (f=3.95) [1]

Frequency = 3.95
Main lobe magnitude = 22.1 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 13.1 deg.
Side lobe level = -25.4 dB

H-Plane



farfield (f=3.95) [1]

Frequency = 3.95
Main lobe magnitude = 22.1 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 11.8 deg.
Side lobe level = -17.5 dB

Gain