25 dBi Gain, 11.9-18 GHz, WR62 Standard Gain Horn with UBR140 Flange

Rev 2

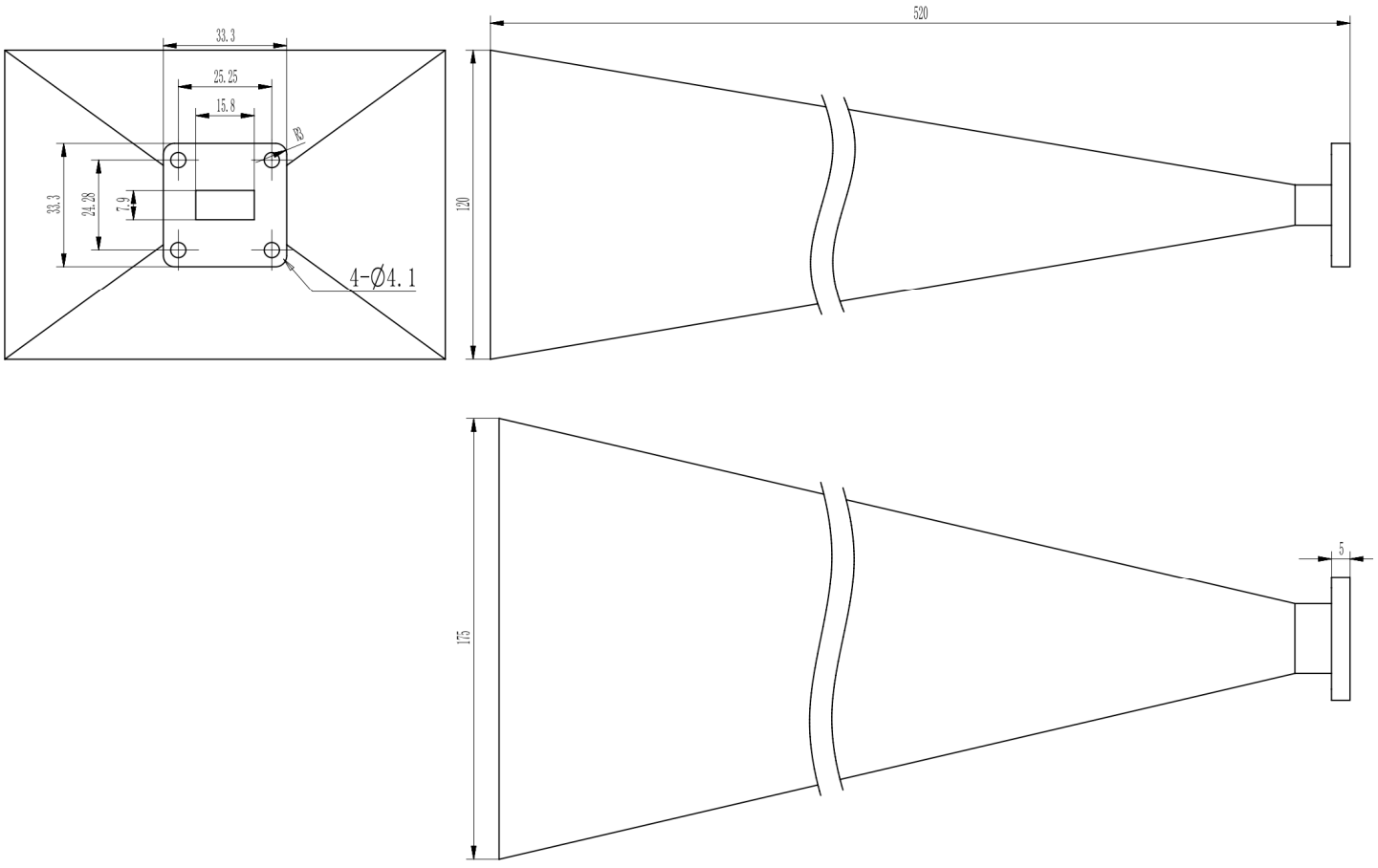
Electrical

Frequency Range	11.9-18 GHz
Norminal Gain	25 dBi
Polarization	Linear
VSWR	1.2 max
Operating Temperature	-40℃~+70℃

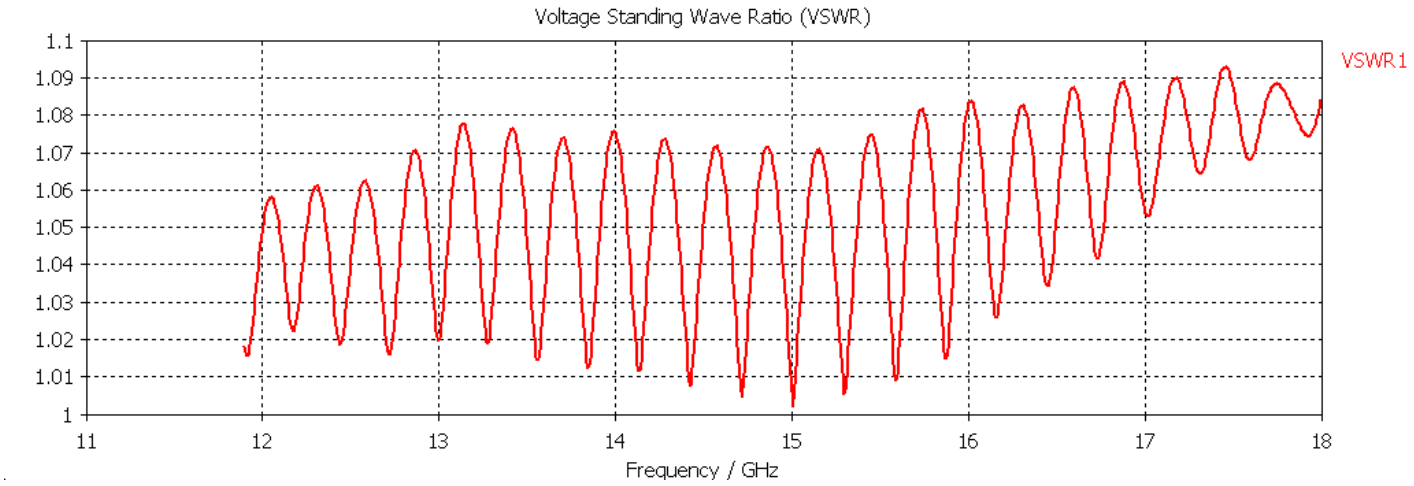
Mechanical

Waveguide Size	WR62
Flange Type	UBR140 Square Cover Flange
Body Material and Finish	Aluminum, Painted

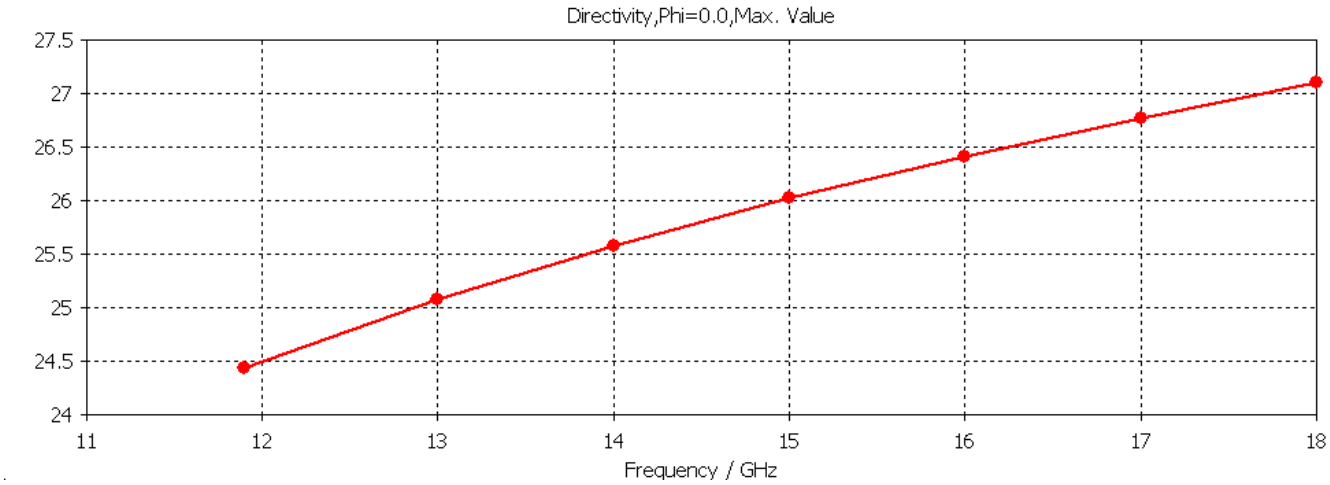
Dimensions(mm)



Simulated VSWR

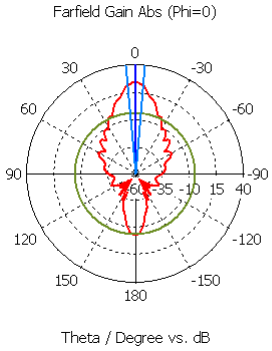


Simulated Gain



Simulated Antenna Patterns

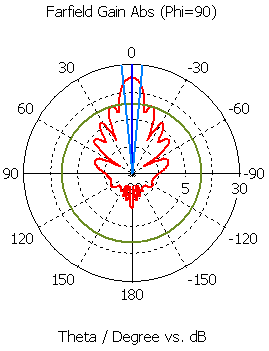
11.9GHz E-Plane



farfield (f=11.9) [1]

Frequency = 11.9
Main lobe magnitude = 24.4 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 10.5 deg.
Side lobe level = -28.3 dB

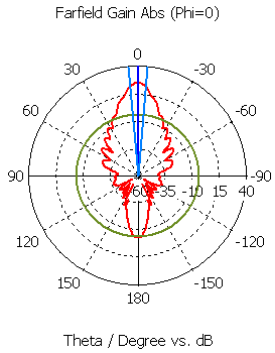
H-Plane



farfield (f=11.9) [1]

Frequency = 11.9
Main lobe magnitude = 24.4 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 10.9 deg.
Side lobe level = -12.1 dB

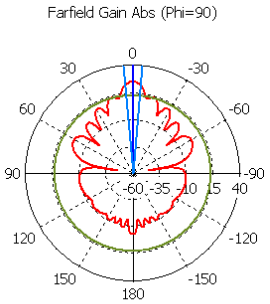
13GHz E-Plane



farfield (f=13) [1]

Frequency = 13
Main lobe magnitude = 25.0 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 9.7 deg.
Side lobe level = -28.6 dB

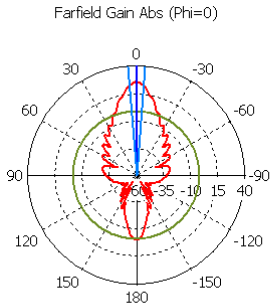
H-Plane



farfield (f=13) [1]

Frequency = 13
Main lobe magnitude = 25.0 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 10.0 deg.
Side lobe level = -11.9 dB

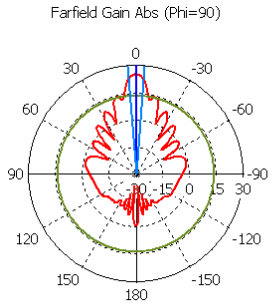
14GHz E-Plane



farfield (f=14) [1]

Frequency = 14
Main lobe magnitude = 25.5 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 9.1 deg.
Side lobe level = -26.7 dB

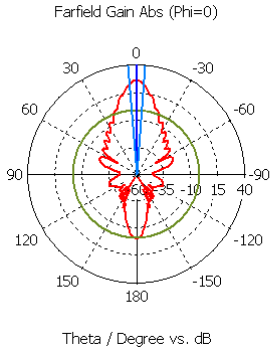
H-Plane



farfield (f=14) [1]

Frequency = 14
Main lobe magnitude = 25.5 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 9.3 deg.
Side lobe level = -11.7 dB

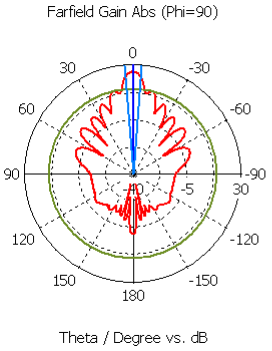
15GHz E-Plane



farfield (f=15) [1]

Frequency = 15
Main lobe magnitude = 26.0 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 8.7 deg.
Side lobe level = -27.4 dB

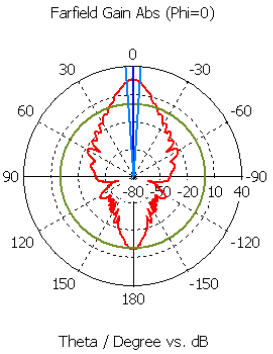
H-Plane



farfield (f=15) [1]

Frequency = 15
Main lobe magnitude = 26.0 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 8.7 deg.
Side lobe level = -11.4 dB

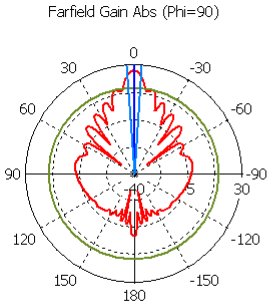
16GHz E-Plane



farfield (f=16) [1]

Frequency = 16
Main lobe magnitude = 26.4 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 8.3 deg.
Side lobe level = -26.3 dB

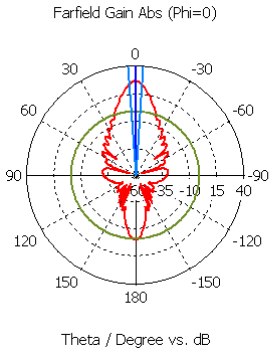
H-Plane



farfield (f=16) [1]

Frequency = 16
Main lobe magnitude = 26.4 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 8.2 deg.
Side lobe level = -11.2 dB

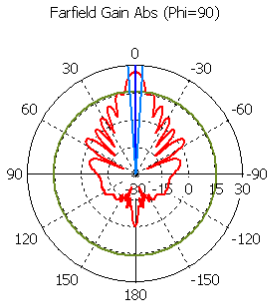
17GHz E-Plane



farfield (f=17) [1]

Frequency = 17
Main lobe magnitude = 26.7 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 7.9 deg.
Side lobe level = -27.6 dB

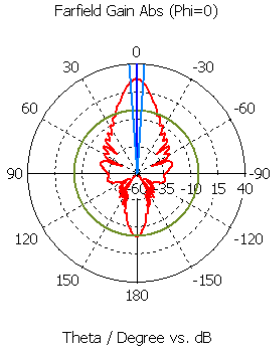
H-Plane



farfield (f=17) [1]

Frequency = 17
Main lobe magnitude = 26.7 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 7.7 deg.
Side lobe level = -10.9 dB

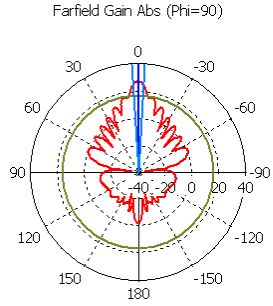
18GHz E-Plane



farfield (f=18) [1]

Frequency = 18
Main lobe magnitude = 27.0 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 7.6 deg.
Side lobe level = -29.3 dB

H-Plane



farfield (f=18) [1]

Frequency = 18
Main lobe magnitude = 27.0 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 7.3 deg.
Side lobe level = -10.6 dB