

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

Flange

Rev 1

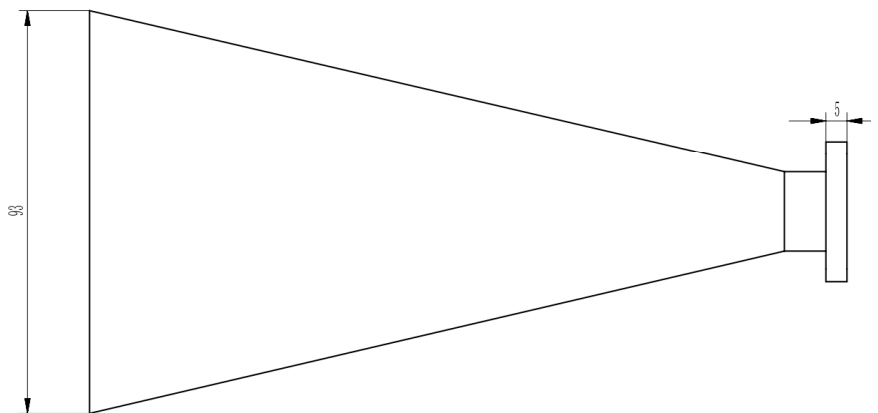
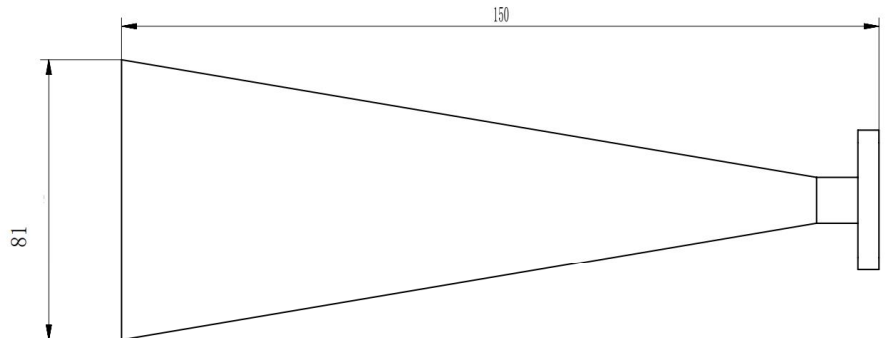
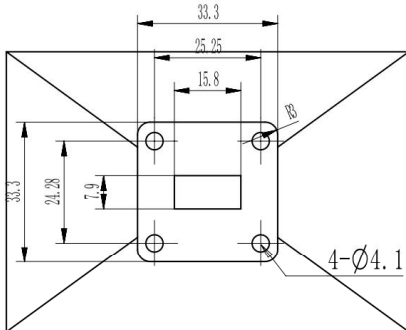
Electrical

Frequency Range	11.9-18 GHz
Norminal Gain	20 dBi
Polarization	Linear
VSWR	1.2 max
3dB Beamwidth	H-Plane: 14.5~20.1 deg, E-Plane: 11.6~16.5 deg
Operating Temperature	-40°C~+70°C

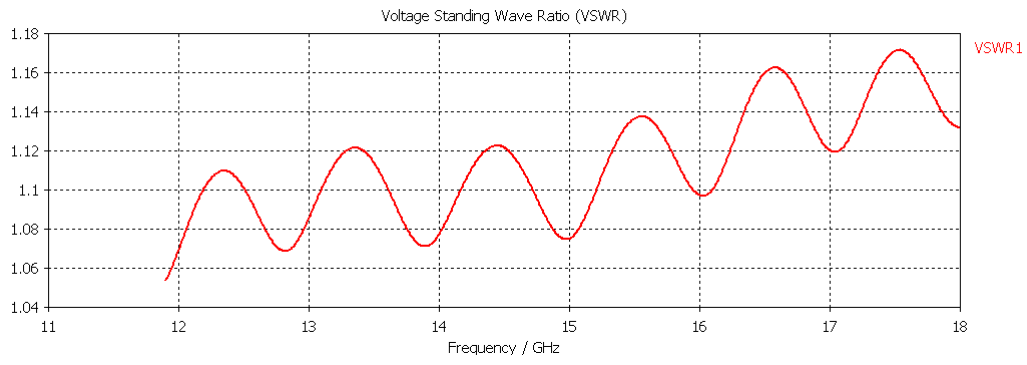
Mechanical

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

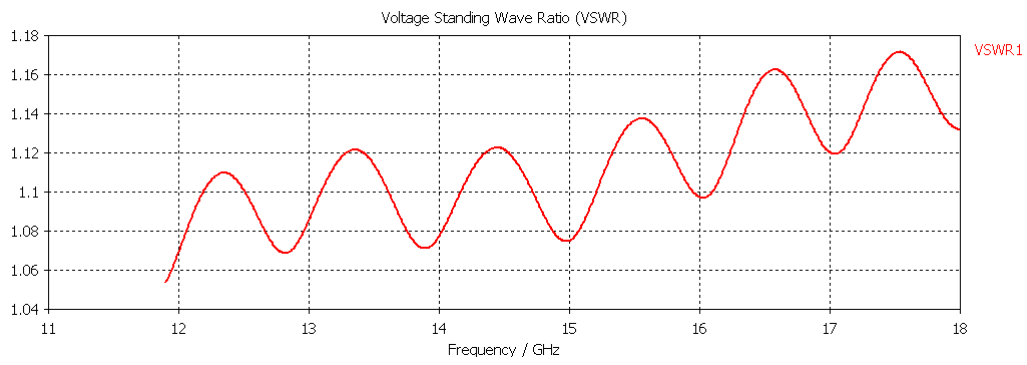
Dimensions(mm)



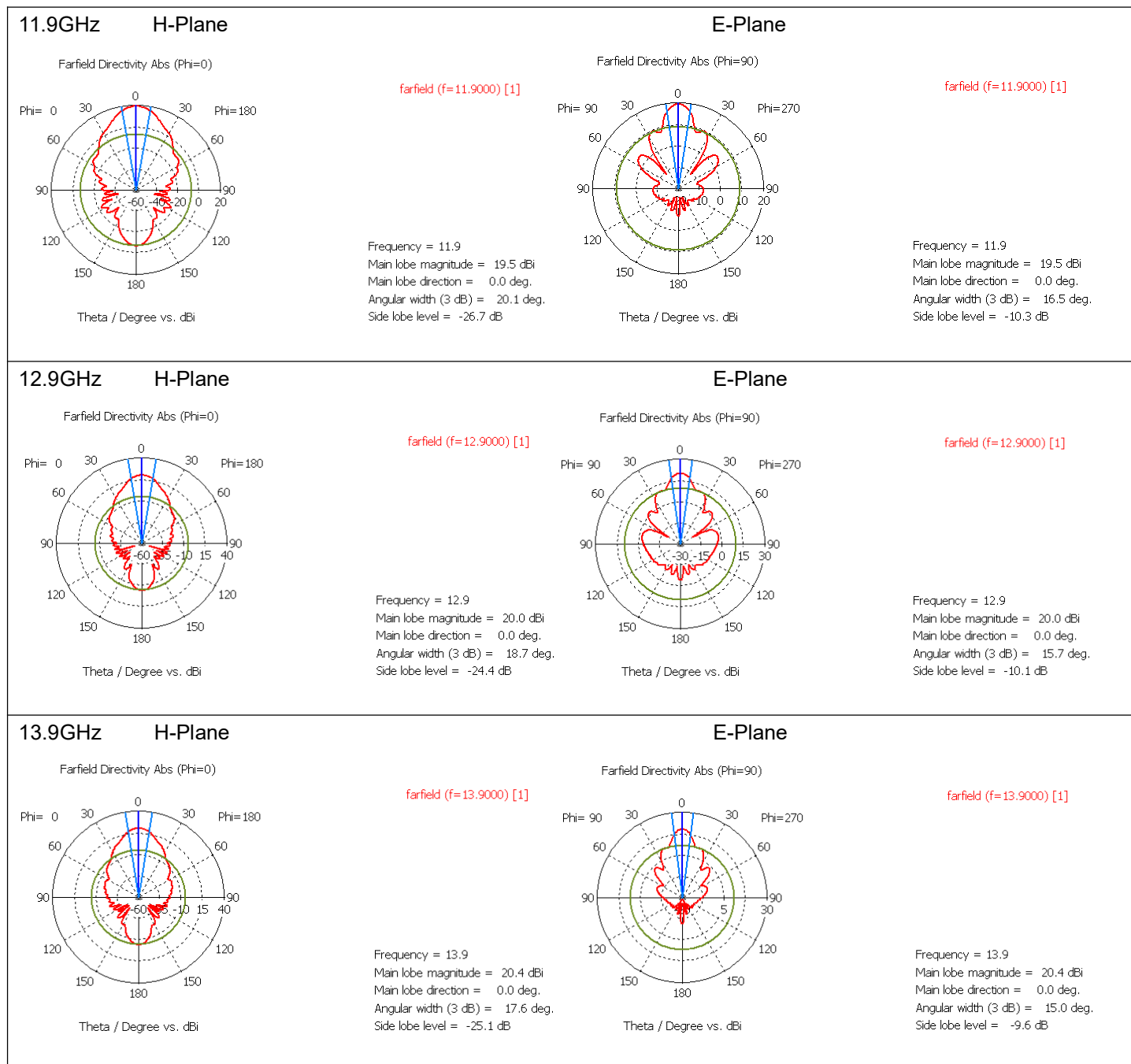
Typical Test Data



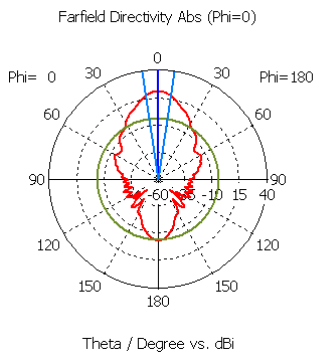
Gain



Simulated Antenna Patterns



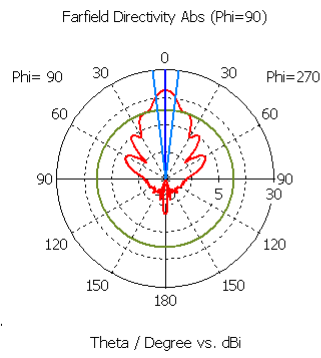
14.9GHz H-Plane



farfield (f=14.9000) [1]

Frequency = 14.9
 Main lobe magnitude = 20.7 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 16.6 deg.
 Side lobe level = -24.5 dB

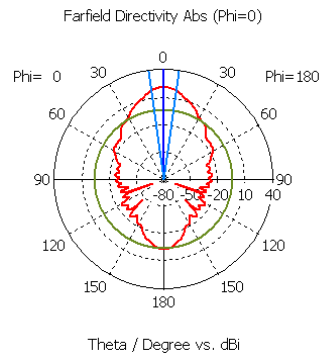
E-Plane



farfield (f=14.9000) [1]

Frequency = 14.9
 Main lobe magnitude = 20.7 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 14.1 deg.
 Side lobe level = -8.8 dB

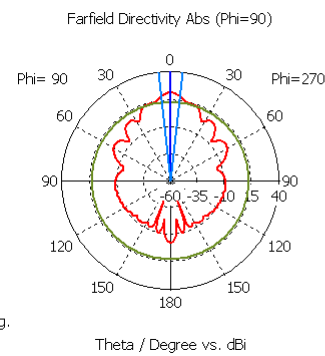
15.9GHz H-Plane



farfield (f=15.9000) [1]

Frequency = 15.9
 Main lobe magnitude = 21.0 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 15.8 deg.
 Side lobe level = -24.3 dB

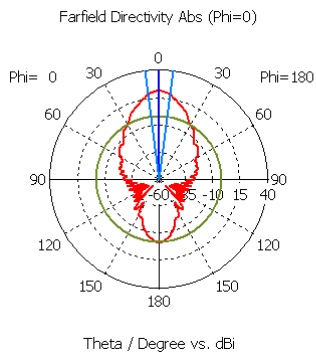
E-Plane



farfield (f=15.9000) [1]

Frequency = 15.9
 Main lobe magnitude = 21.0 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 13.1 deg.
 Side lobe level = -7.9 dB

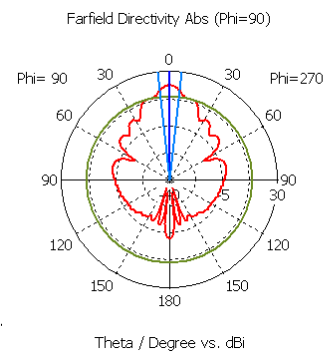
16.9GHz H-Plane



farfield (f=16.9000) [1]

Frequency = 16.9
 Main lobe magnitude = 21.2 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 15.2 deg.
 Side lobe level = -23.3 dB

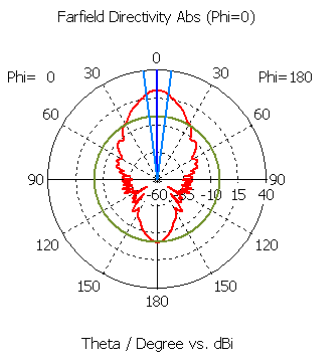
E-Plane



farfield (f=16.9000) [1]

Frequency = 16.9
 Main lobe magnitude = 21.2 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 12.5 deg.
 Side lobe level = -7.3 dB

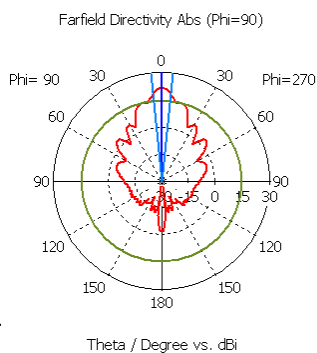
17.9GHz H-Plane



farfield (f=17.9000) [1]

Frequency = 17.9
 Main lobe magnitude = 21.6 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 14.5 deg.
 Side lobe level = -23.9 dB

E-Plane



farfield (f=17.9000) [1]

Frequency = 17.9
 Main lobe magnitude = 21.6 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 11.6 deg.
 Side lobe level = -7.1 dB