

25 dBi Gain, 11.9-18 GHz, WR62 Standard Gain Horn with SMA Female Port

Rev 2

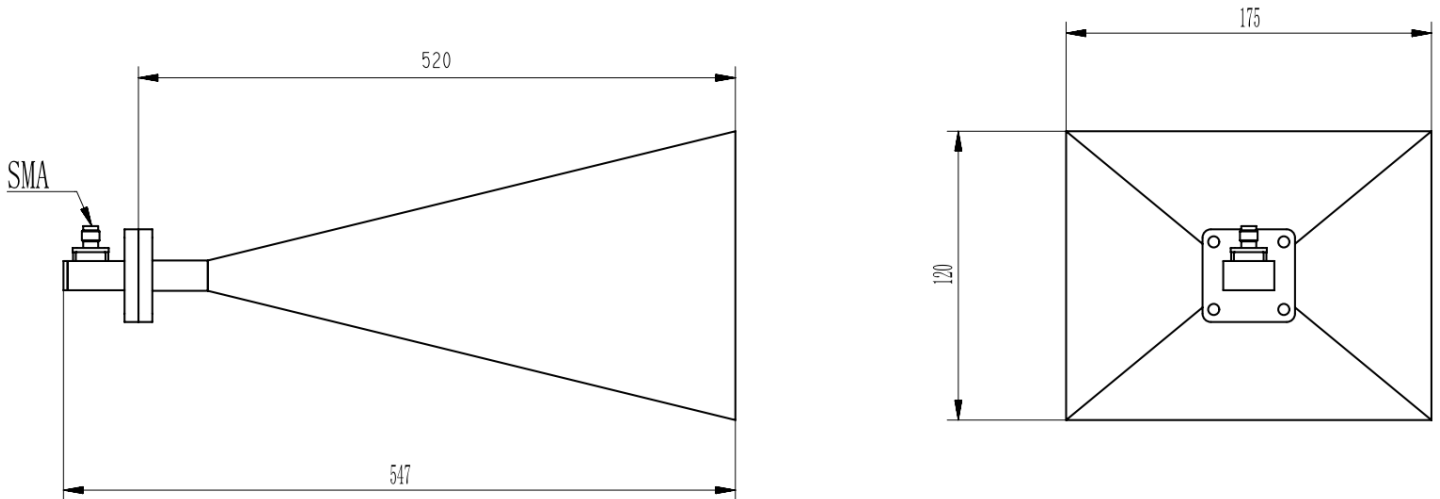
Electrical

Frequency Range	11.9-18 GHz
Norminal Gain	25 dBi
Polarization	Linear
VSWR	1.4 max
3dB Beamwidth	E-Plane: 7.6~10.5 deg, H-Plane: 7.3~10.9 deg
Operating Temperature	-40°C~+70°C

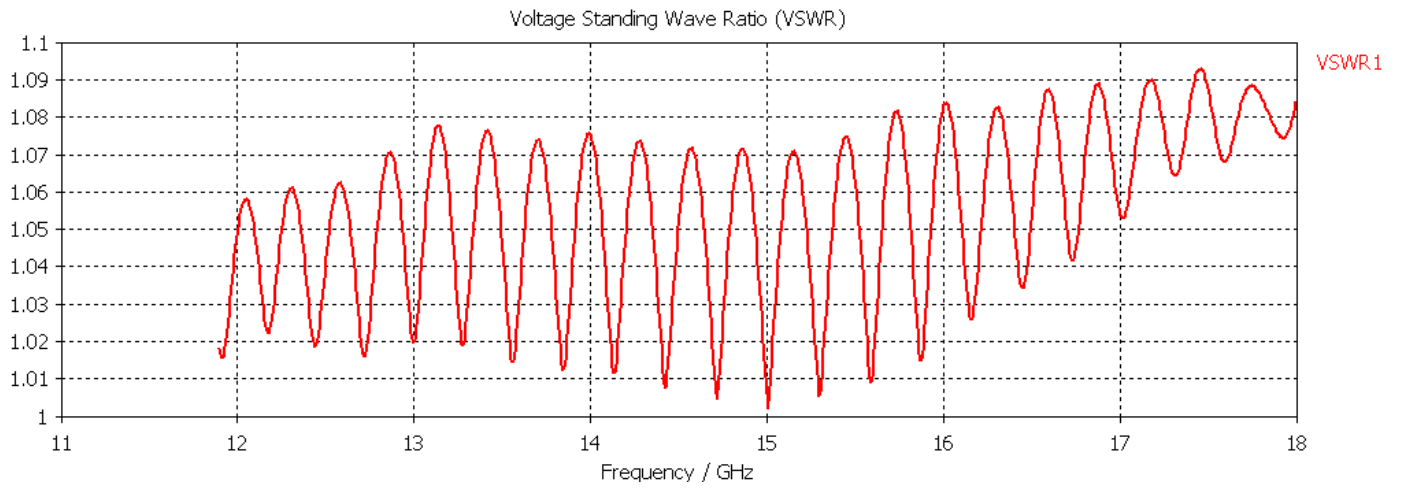
Mechanical

Waveguide Size	WR62
Flange Type	UBR140 Square Cover Flange
Body Material and Finish	Aluminum, Painted
RF Connector	SMA Female

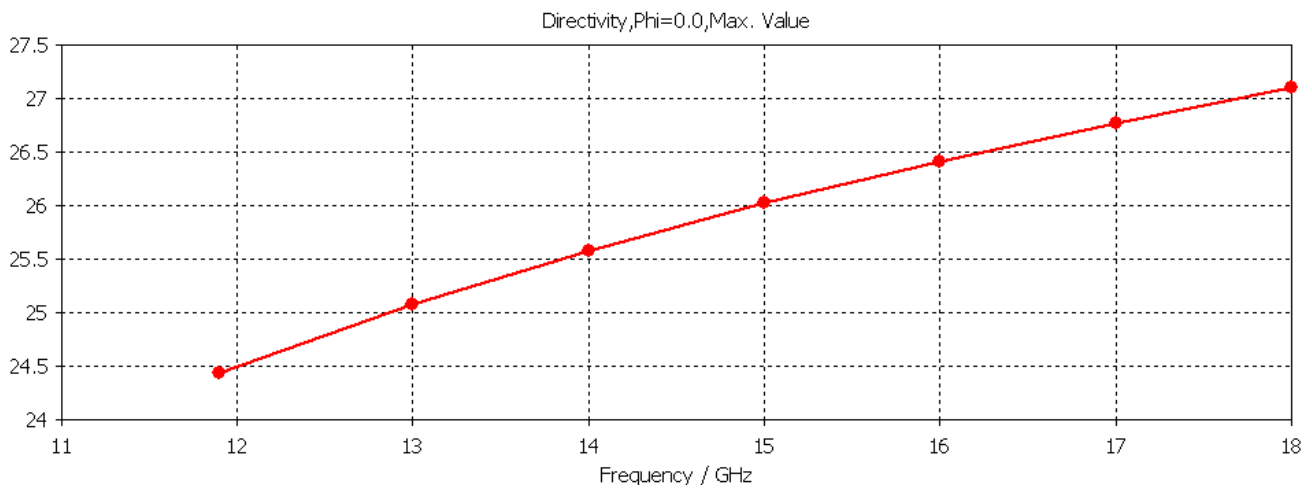
Dimensions(mm)



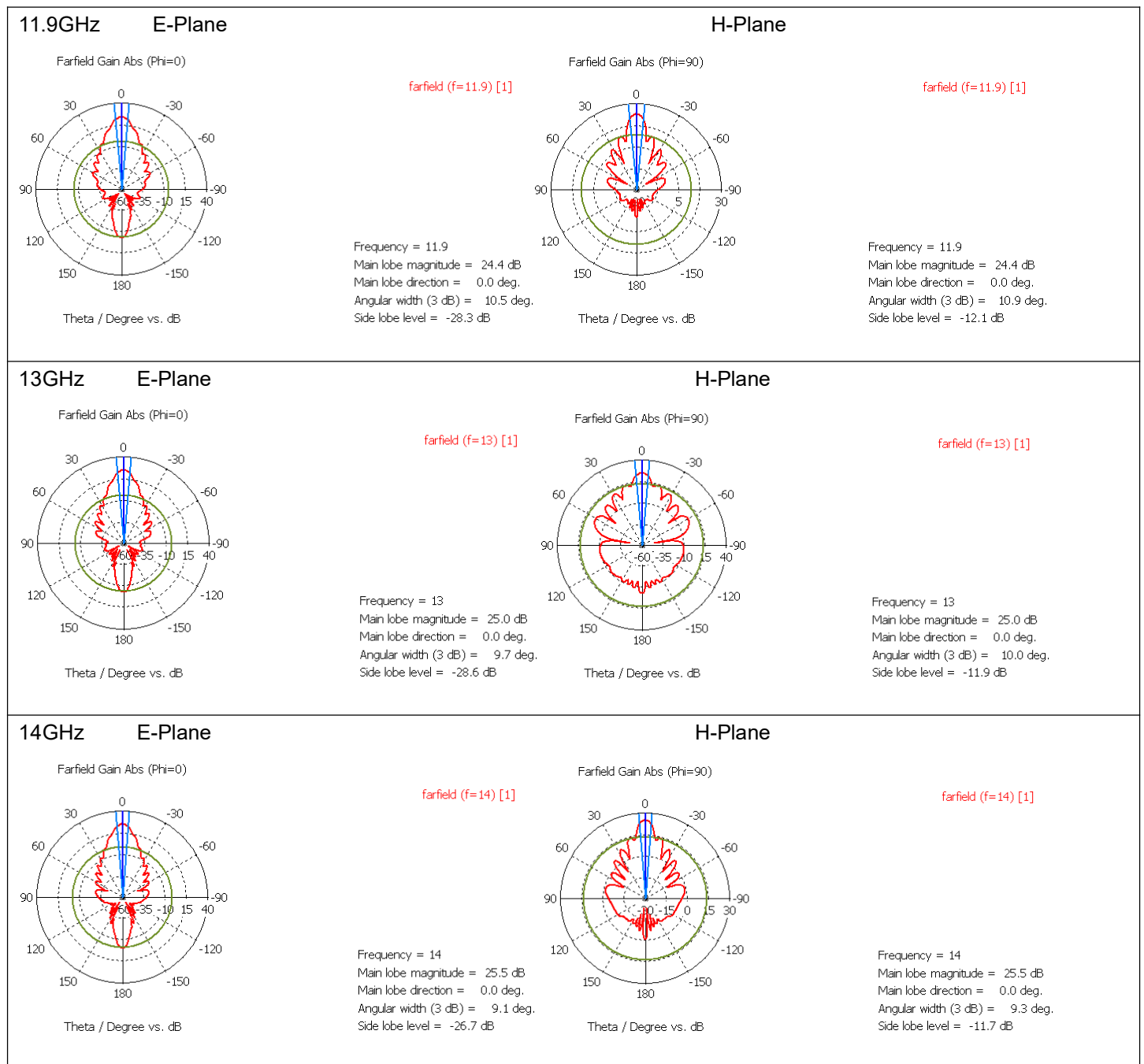
Simulated VSWR



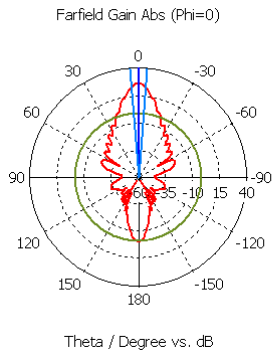
Simulated Gain



Simulated Antenna Patterns



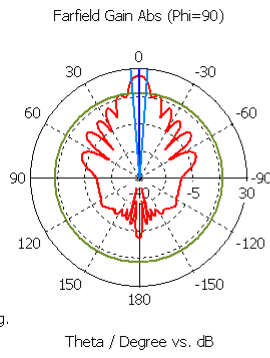
15GHz E-Plane



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

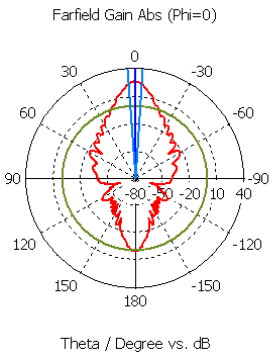
H-Plane



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

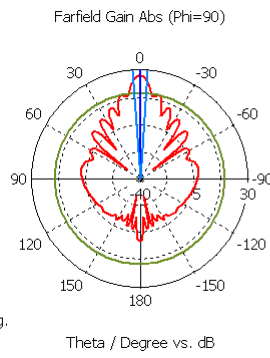
16GHz E-Plane



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

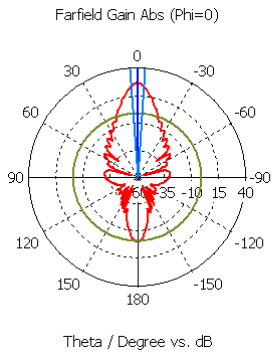
H-Plane



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

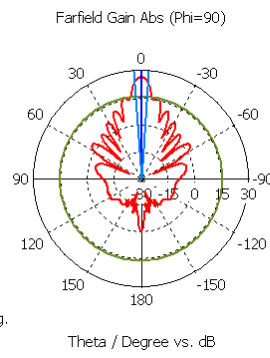
17GHz E-Plane



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

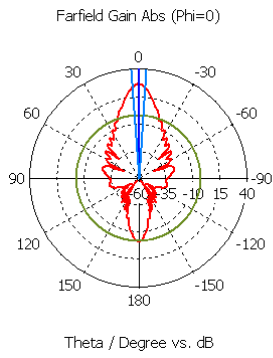
H-Plane



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

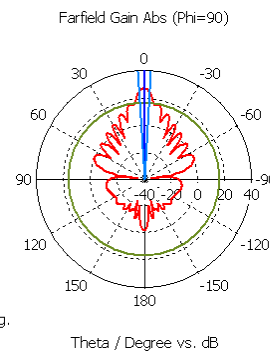
18GHz E-Plane



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