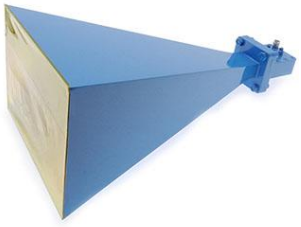
RH62-SMA-20



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

Rev 1

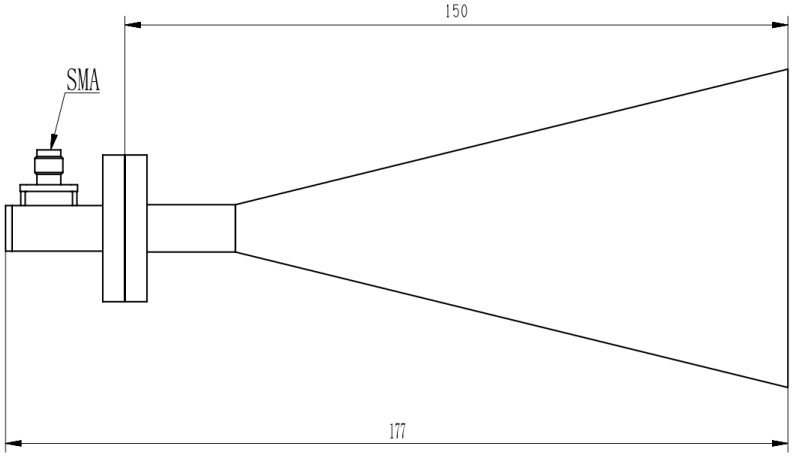
Electrical

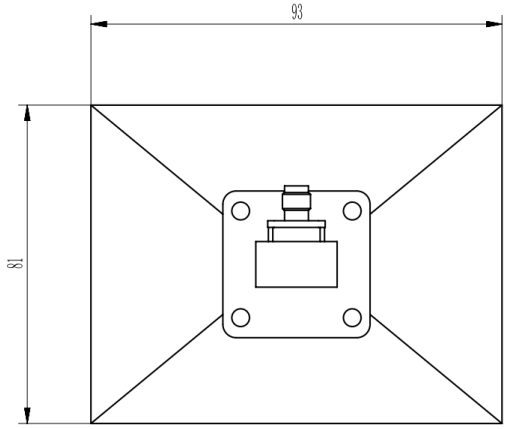
Frequency Range	11.9-18 GHz
Norminal Gain	20 dBi
Polarization	Linear
VSWR	1.4 max
3dB Beamwidth	H-Plane: 14.5~20.1 deg, E-Plane: 11.6~16.5 deg
Operating Temperature	-40℃~+70℃

Mechanical

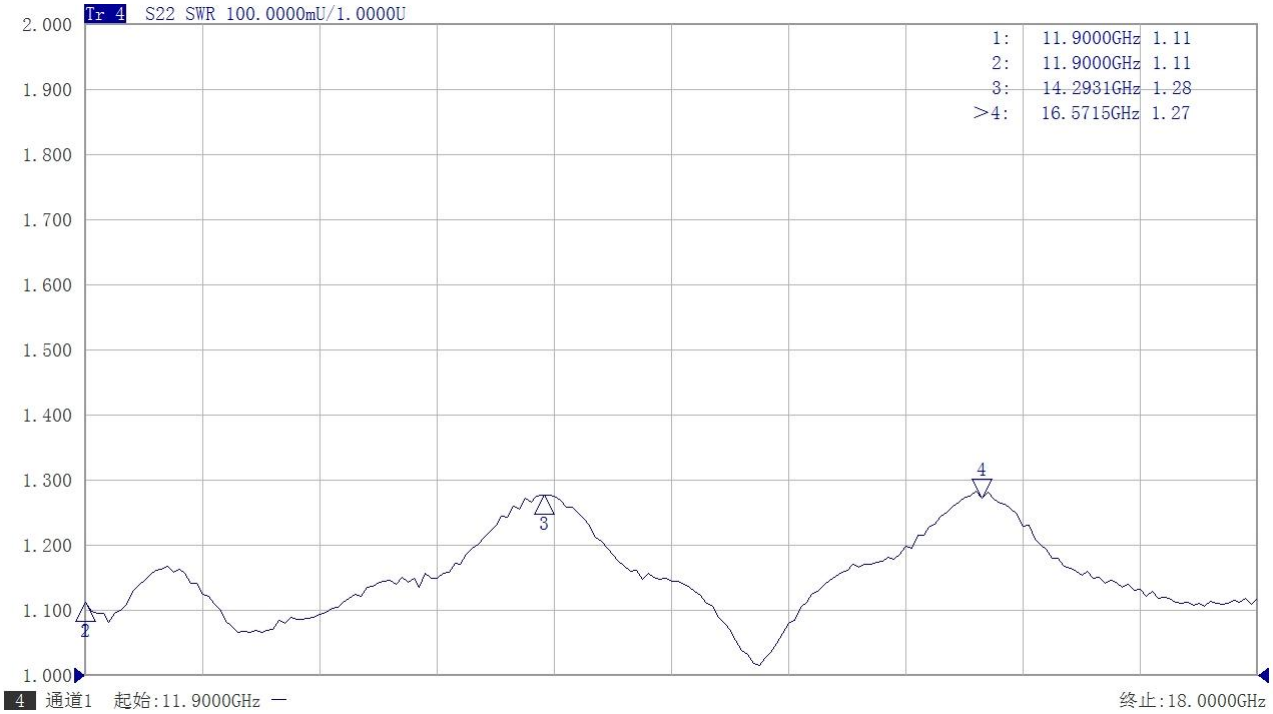
Waveguide Size	WR62
Flange Type	UBR140 Square Cover Flange
Body Material and Finish	Aluminum, Painted
RF Connector	SMA Female
Net Weight	160g

Dimensions(mm)

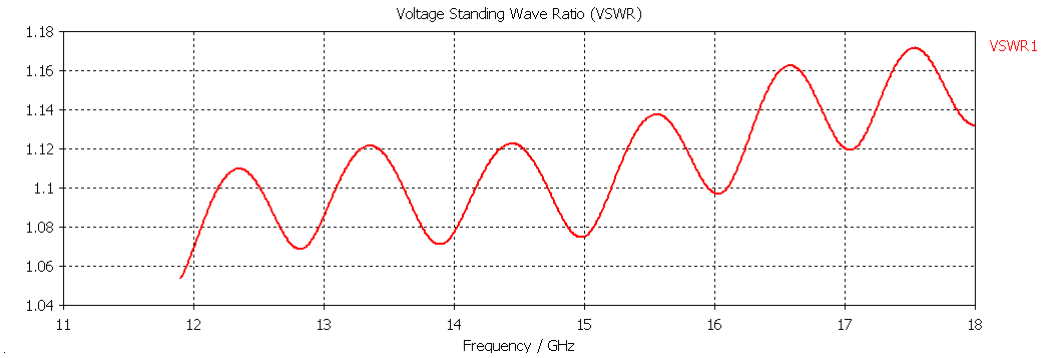




Typical Test Data

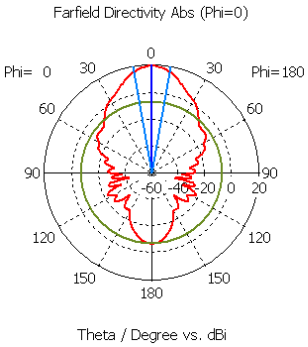


Gain



Simulated Antenna Patterns

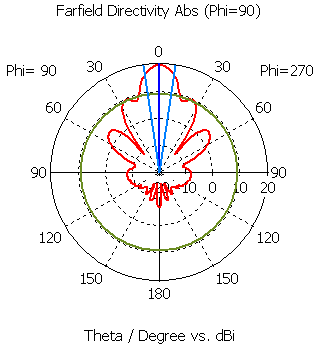
11.9GHz H-Plane



farfield (f=11.9000) [1]

Frequency = 11.9
Main lobe magnitude = 19.5 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 20.1 deg.
Side lobe level = -26.7 dB

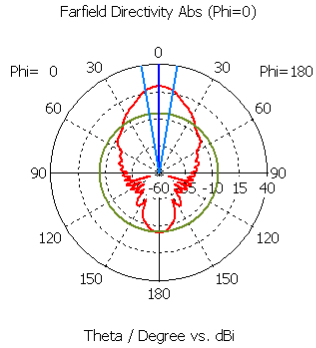
E-Plane



farfield (f=11.9000) [1]

Frequency = 11.9
Main lobe magnitude = 19.5 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 16.5 deg.
Side lobe level = -10.3 dB

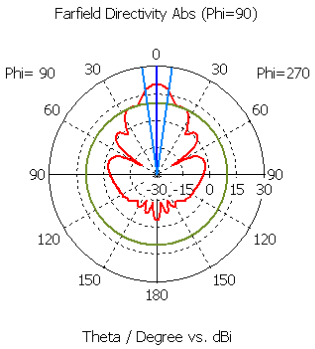
12.9GHz H-Plane



farfield (f=12.9000) [1]

Frequency = 12.9
Main lobe magnitude = 20.0 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 18.7 deg.
Side lobe level = -24.4 dB

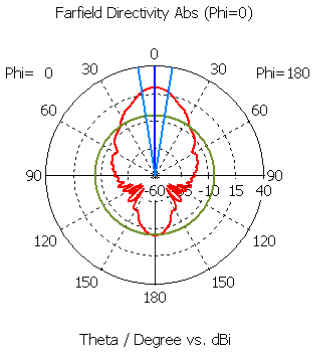
E-Plane



farfield (f=12.9000) [1]

Frequency = 12.9
Main lobe magnitude = 20.0 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 15.7 deg.
Side lobe level = -10.1 dB

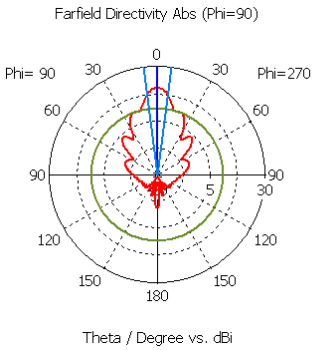
13.9GHz H-Plane



farfield (f=13.9000) [1]

Frequency = 13.9
Main lobe magnitude = 20.4 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 17.6 deg.
Side lobe level = -25.1 dB

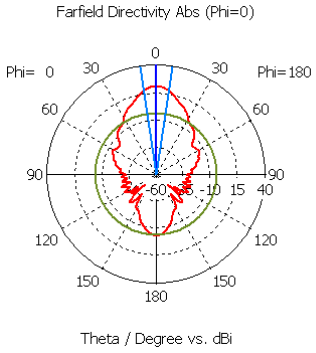
E-Plane



farfield (f=13.9000) [1]

Frequency = 13.9
Main lobe magnitude = 20.4 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 15.0 deg.
Side lobe level = -9.6 dB

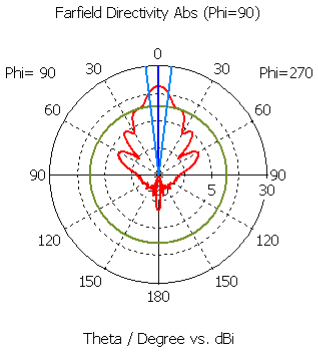
14.9GHz H-Plane



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

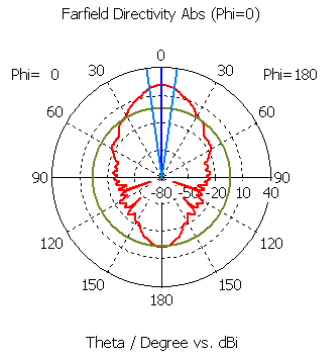
E-Plane



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

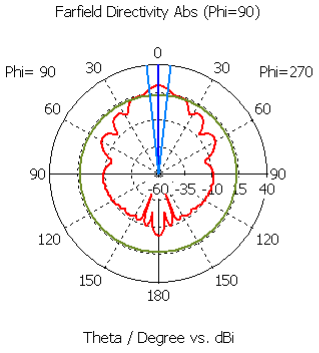
15.9GHz H-Plane



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

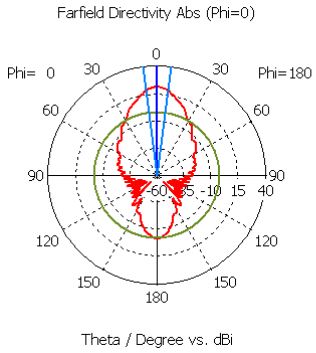
E-Plane



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

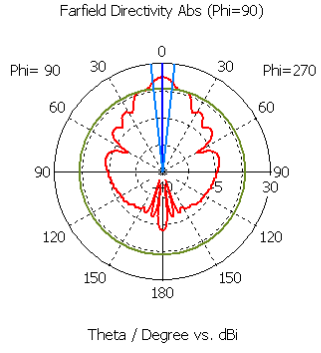
16.9GHz H-Plane



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

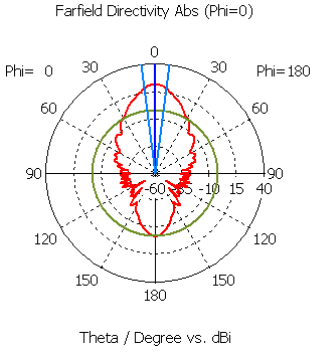
E-Plane



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

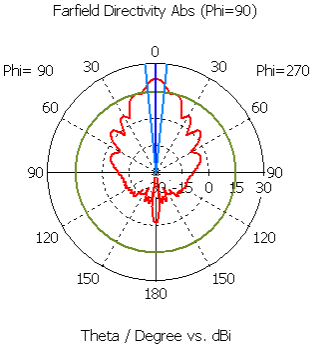
17.9GHz H-Plane



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