RH62-SMA-10

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

Rev 3

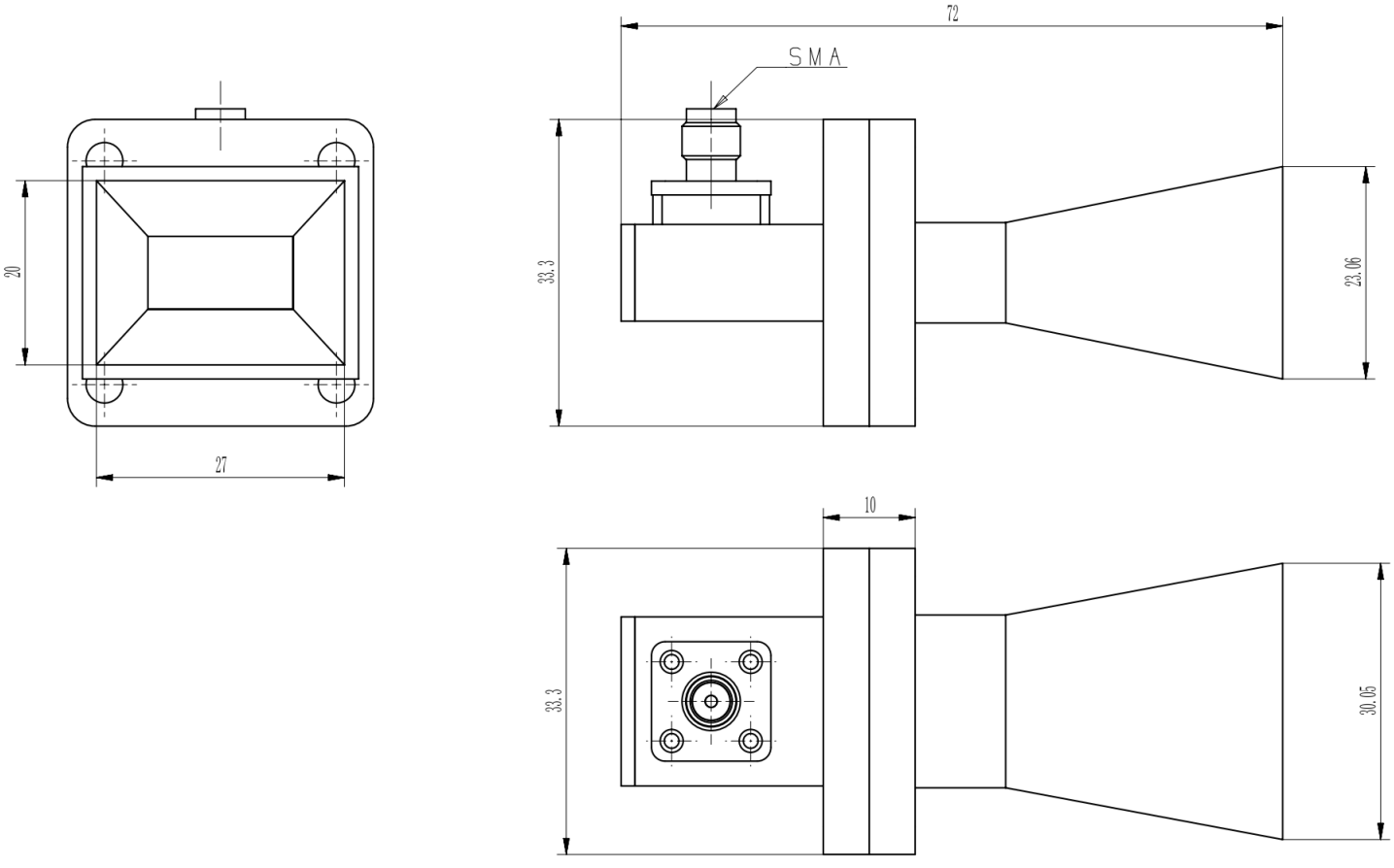
Electrical

Frequency Range	11.9-18 GHz
Norminal Gain	10 dBi
Polarization	Linear
VSWR	1.4 max
3dB Beamwidth	H-Plane: 39.8~56.4 deg, E-Plane: 40.2~60.4 deg
Operating Temperature	-40℃~+70℃

Mechanical

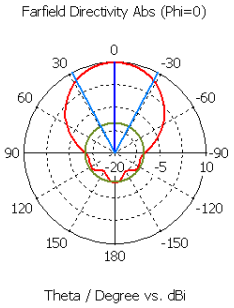
Waveguide Size	WR62
Flange Type	UBR140 Square Cover Flange
Body Material and Finish	Aluminum, Painted
RF Connector	SMA Female

Dimensions(mm)



Simulated Antenna Patterns

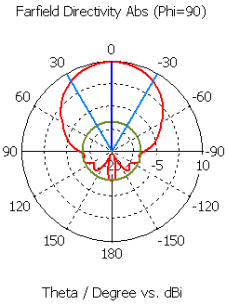
11.9GHz H-Plane



farfield (f=11.9) [1]

Frequency = 11.9
Main lobe magnitude = 9.9 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 56.4 deg.
Side lobe level = -20.1 dB

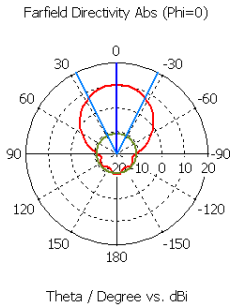
E-Plane



farfield (f=11.9) [1]

Frequency = 11.9
Main lobe magnitude = 9.9 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 60.4 deg.
Side lobe level = -20.1 dB

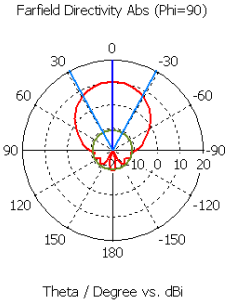
12.5GHz H-Plane



farfield (f=12.5000) [1]

Frequency = 12.5
Main lobe magnitude = 10.3 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 54.1 deg.
Side lobe level = -21.2 dB

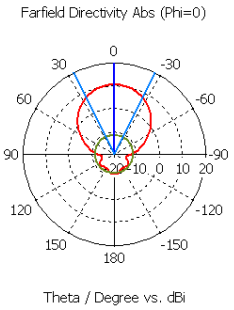
E-Plane



farfield (f=12.5000) [1]

Frequency = 12.5
Main lobe magnitude = 10.3 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 57.2 deg.
Side lobe level = -21.2 dB

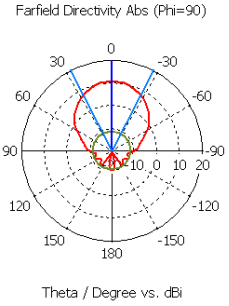
13GHz H-Plane



farfield (f=13.0000) [1]

Frequency = 13
Main lobe magnitude = 10.6 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 52.4 deg.
Side lobe level = -21.8 dB

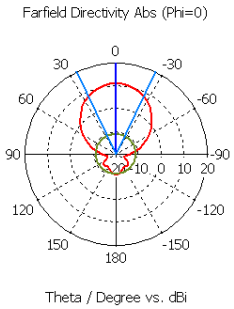
E-Plane



farfield (f=13.0000) [1]

Frequency = 13
Main lobe magnitude = 10.6 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 54.9 deg.
Side lobe level = -21.8 dB

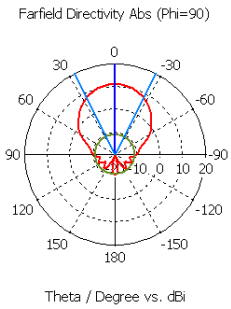
13.5GHz H-Plane



farfield (f=13.5000) [1]

Frequency = 13.5
Main lobe magnitude = 10.9 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 51.0 deg.
Side lobe level = -22.1 dB

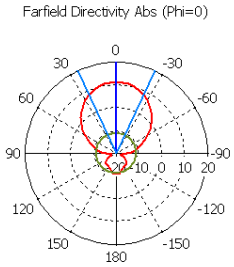
E-Plane



farfield (f=13.5000) [1]

Frequency = 13.5
Main lobe magnitude = 10.9 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 53.5 deg.
Side lobe level = -22.1 dB

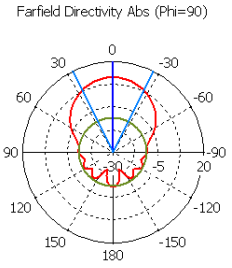
14GHz H-Plane



farfield (f=14.0000) [1]

Frequency = 14
Main lobe magnitude = 11.2 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 49.8 deg.
Side lobe level = -22.2 dB

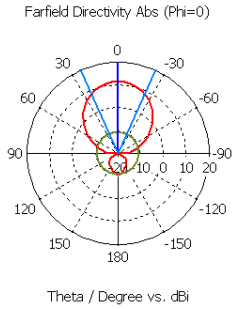
E-Plane



farfield (f=14.0000) [1]

Frequency = 14
Main lobe magnitude = 11.2 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 52.6 deg.
Side lobe level = -22.2 dB

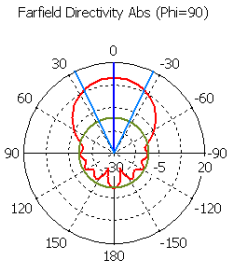
14.5GHz H-Plane



farfield (f=14.5000) [1]

Frequency = 14.5
Main lobe magnitude = 11.5 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 48.3 deg.
Side lobe level = -22.2 dB

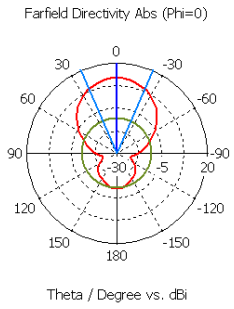
E-Plane



farfield (f=14.5000) [1]

Frequency = 14.5
Main lobe magnitude = 11.5 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 51.6 deg.
Side lobe level = -22.2 dB

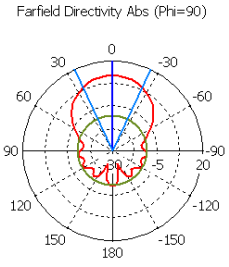
15GHz H-Plane



farfield (f=15.0000) [1]

Frequency = 15
Main lobe magnitude = 11.8 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 46.7 deg.
Side lobe level = -22.2 dB

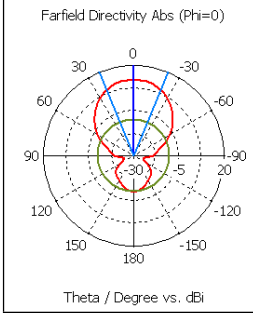
E-Plane



farfield (f=15.0000) [1]

Frequency = 15
Main lobe magnitude = 11.8 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 49.9 deg.
Side lobe level = -22.2 dB

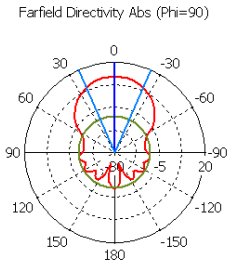
15.5GHz H-Plane



farfield (f=15.5000) [1]

Frequency = 15.5
Main lobe magnitude = 12.1 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 45.0 deg.
Side lobe level = -22.3 dB

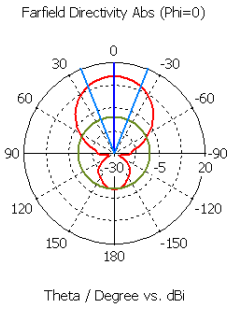
E-Plane



farfield (f=15.5000) [1]

Frequency = 15.5
Main lobe magnitude = 12.1 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 47.3 deg.
Side lobe level = -22.3 dB

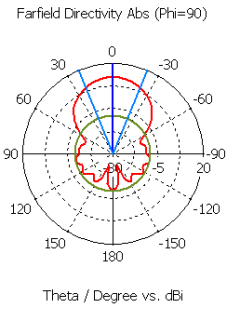
16GHz H-Plane



farfield (f=16.0000) [1]

Frequency = 16
Main lobe magnitude = 12.4 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 43.4 deg.
Side lobe level = -22.5 dB

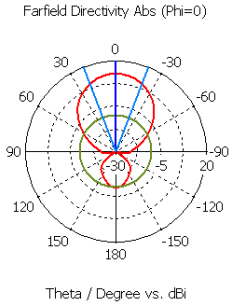
E-Plane



farfield (f=16.0000) [1]

Frequency = 16
Main lobe magnitude = 12.4 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 44.9 deg.
Side lobe level = -21.5 dB

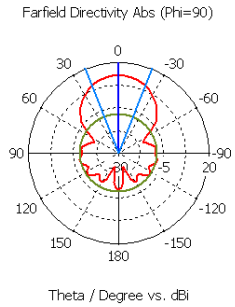
16.5GHz H-Plane



farfield (f=16.5000) [1]

Frequency = 16.5
Main lobe magnitude = 12.7 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 42.3 deg.
Side lobe level = -22.9 dB

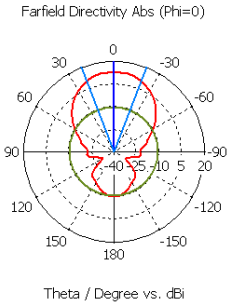
E-Plane



farfield (f=16.5000) [1]

Frequency = 16.5
Main lobe magnitude = 12.7 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 43.3 deg.
Side lobe level = -21.1 dB

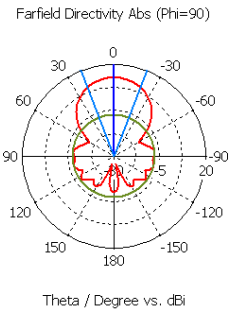
17GHz H-Plane



farfield (f=17.0000) [1]

Frequency = 17
Main lobe magnitude = 13.0 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 41.5 deg.
Side lobe level = -23.3 dB

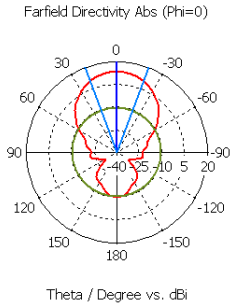
E-Plane



farfield (f=17.0000) [1]

Frequency = 17
Main lobe magnitude = 13.0 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 42.5 deg.
Side lobe level = -20.5 dB

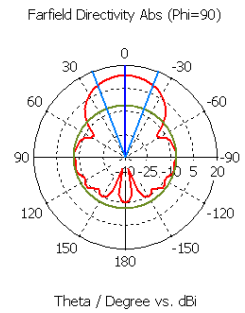
17.5GHz H-Plane



farfield (f=17.5000) [1]

Frequency = 17.5
Main lobe magnitude = 13.2 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 40.8 deg.
Side lobe level = -23.7 dB

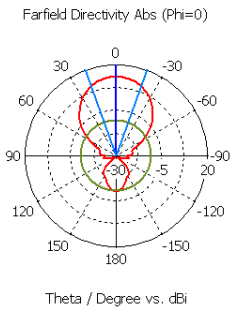
E-Plane



farfield (f=17.5000) [1]

Frequency = 17.5
Main lobe magnitude = 13.2 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 41.7 deg.
Side lobe level = -19.5 dB

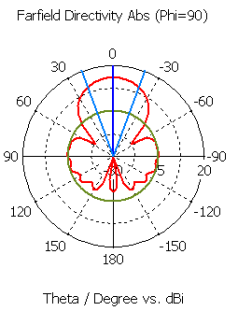
18GHz H-Plane



farfield (f=18.0000) [1]

Frequency = 18
Main lobe magnitude = 13.5 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 39.8 deg.
Side lobe level = -23.9 dB

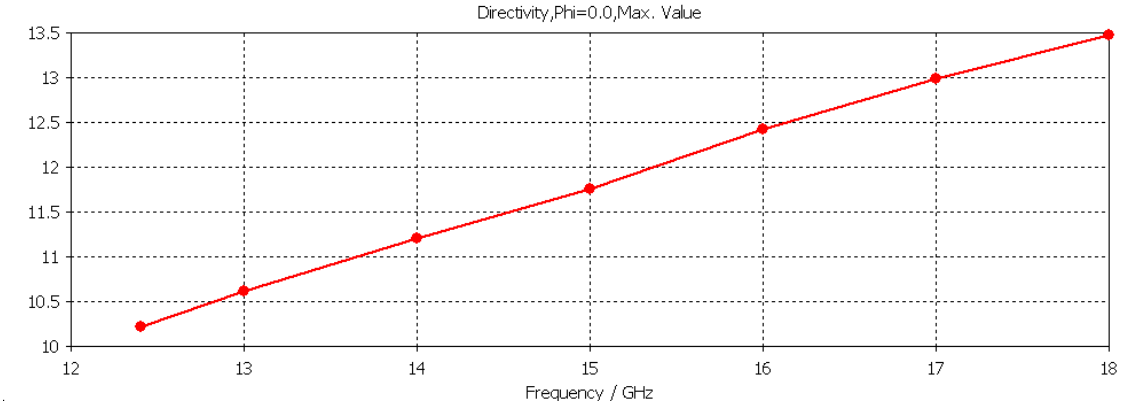
E-Plane



farfield (f=18.0000) [1]

Frequency = 18
Main lobe magnitude = 13.5 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 40.2 deg.
Side lobe level = -18.5 dB

Simulated Gain



Typical Test Data