

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

Flange

Rev 1

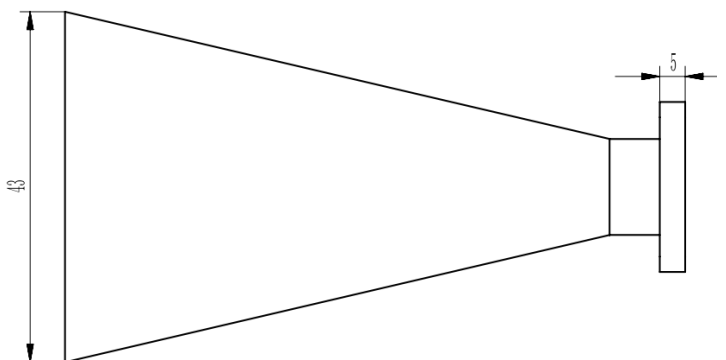
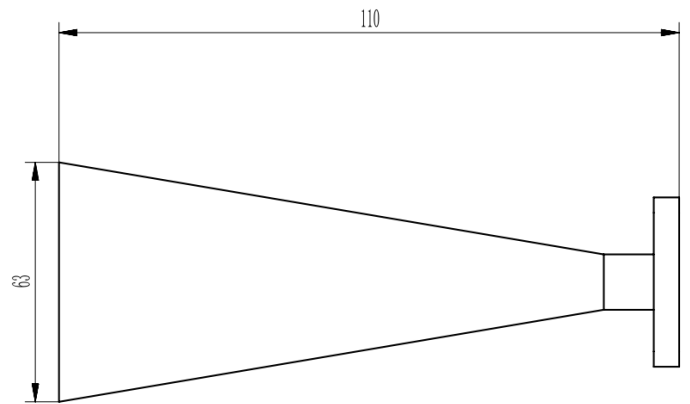
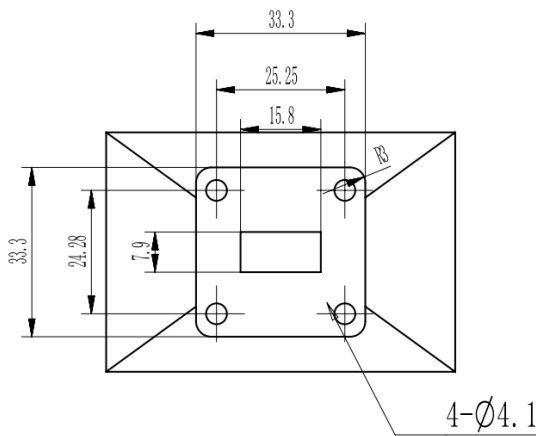
Electrical

Frequency Range	11.9-18 GHz
Norminal Gain	15 dBi
Polarization	Linear
VSWR	1.2 max
3dB Beamwidth	H-Plane: 19.0~27.9 deg, E-Plane: 21.5~33.1 deg
Operating Temperature	-40°C~+70°C

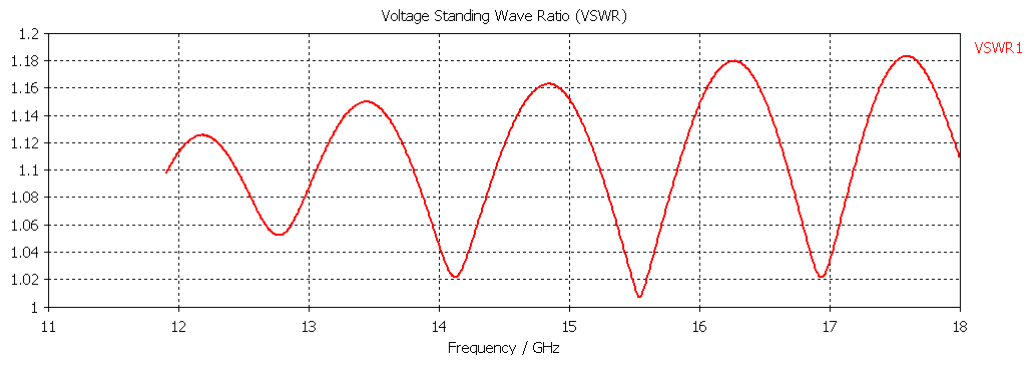
Mechanical

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

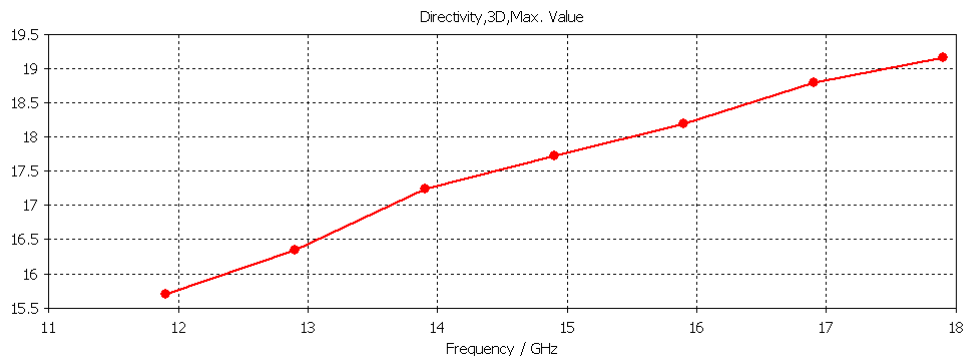
Dimensions(mm)



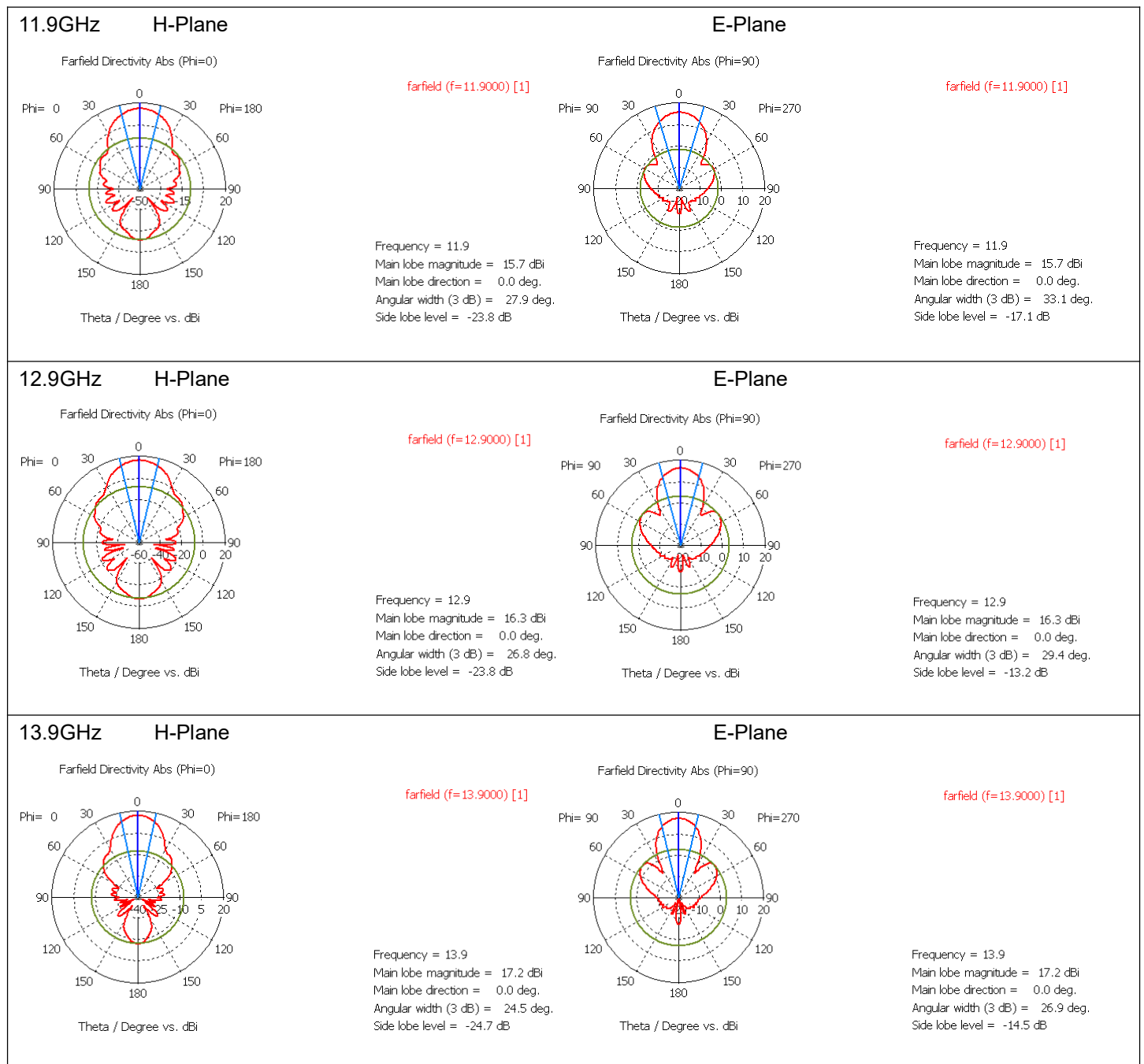
Typical VSWR



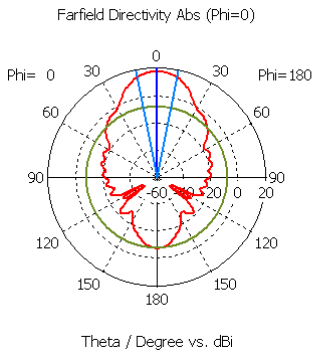
Gain



Simulated Antenna Patterns



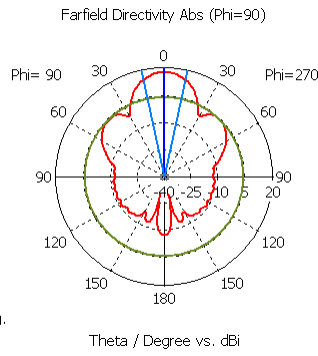
14.9GHz H-Plane



farfield (f=14.9000) [1]

Frequency = 14.9
Main lobe magnitude = 17.7 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 22.8 deg.
Side lobe level = -25.6 dB

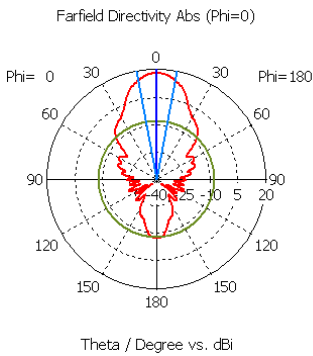
E-Plane



farfield (f=14.9000) [1]

Frequency = 14.9
Main lobe magnitude = 17.7 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 25.0 deg.
Side lobe level = -13.7 dB

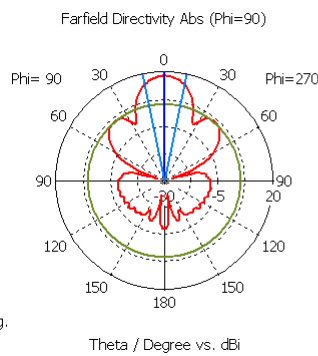
15.9GHz H-Plane



farfield (f=15.9000) [1]

Frequency = 15.9
Main lobe magnitude = 18.2 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 21.7 deg.
Side lobe level = -25.9 dB

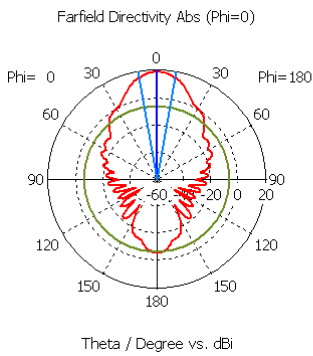
E-Plane



farfield (f=15.9000) [1]

Frequency = 15.9
Main lobe magnitude = 18.2 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 23.4 deg.
Side lobe level = -12.6 dB

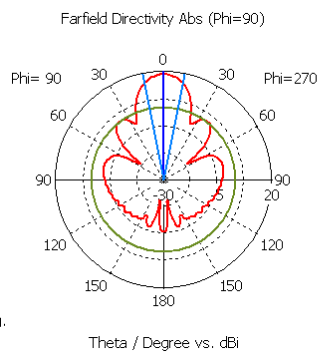
16.9GHz H-Plane



farfield (f=16.9000) [1]

Frequency = 16.9
Main lobe magnitude = 18.8 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 20.6 deg.
Side lobe level = -24.8 dB

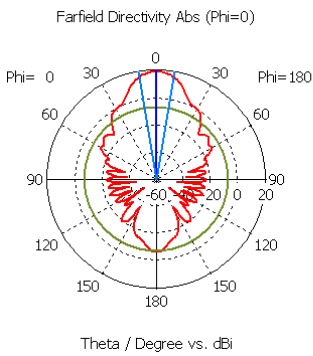
E-Plane



farfield (f=16.9000) [1]

Frequency = 16.9
Main lobe magnitude = 18.8 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 22.1 deg.
Side lobe level = -15.1 dB

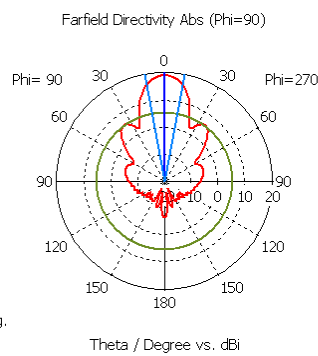
17.9GHz H-Plane



farfield (f=17.9000) [1]

Frequency = 17.9
Main lobe magnitude = 19.2 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 19.0 deg.
Side lobe level = -25.8 dB

E-Plane



farfield (f=17.9000) [1]

Frequency = 17.9
Main lobe magnitude = 19.2 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 21.5 deg.
Side lobe level = -13.5 dB