

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

Rev 1

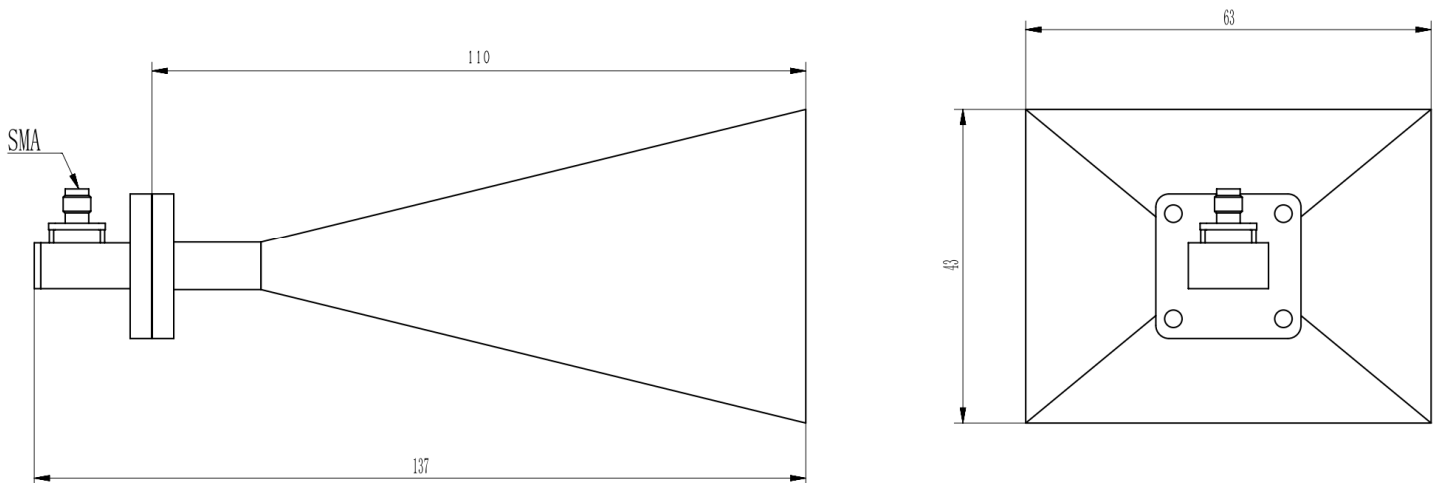
### Electrical

Frequency Range	11.9-18 GHz
Norminal Gain	15 dBi
Polarization	Linear
VSWR	1.4 max
3dB Beamwidth	E-Plane: 19.0~27.9 deg, H-Plane: 21.5~33.1 deg
Operating Temperature	-40°C~+70°C

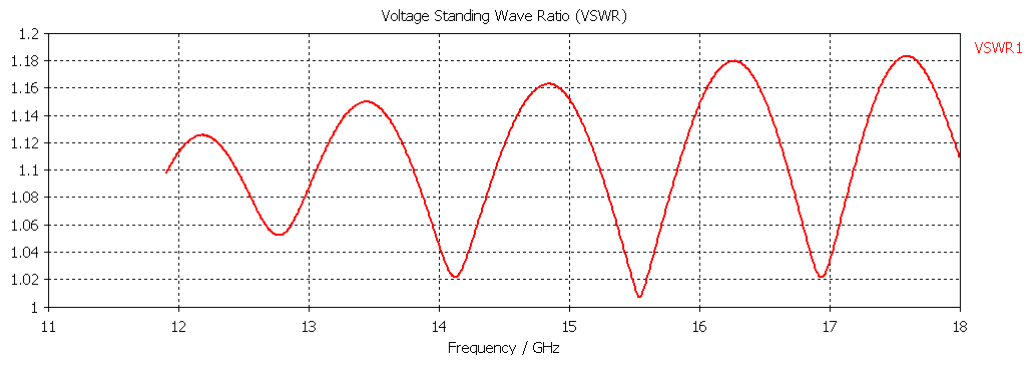
### Mechanical

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

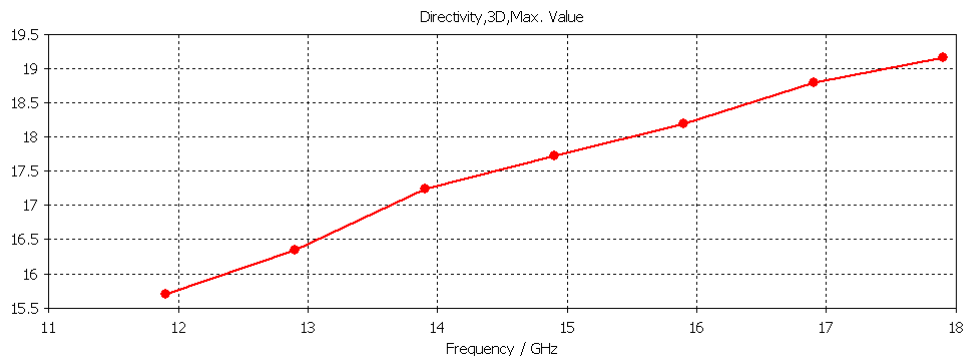
### Dimensions(mm)



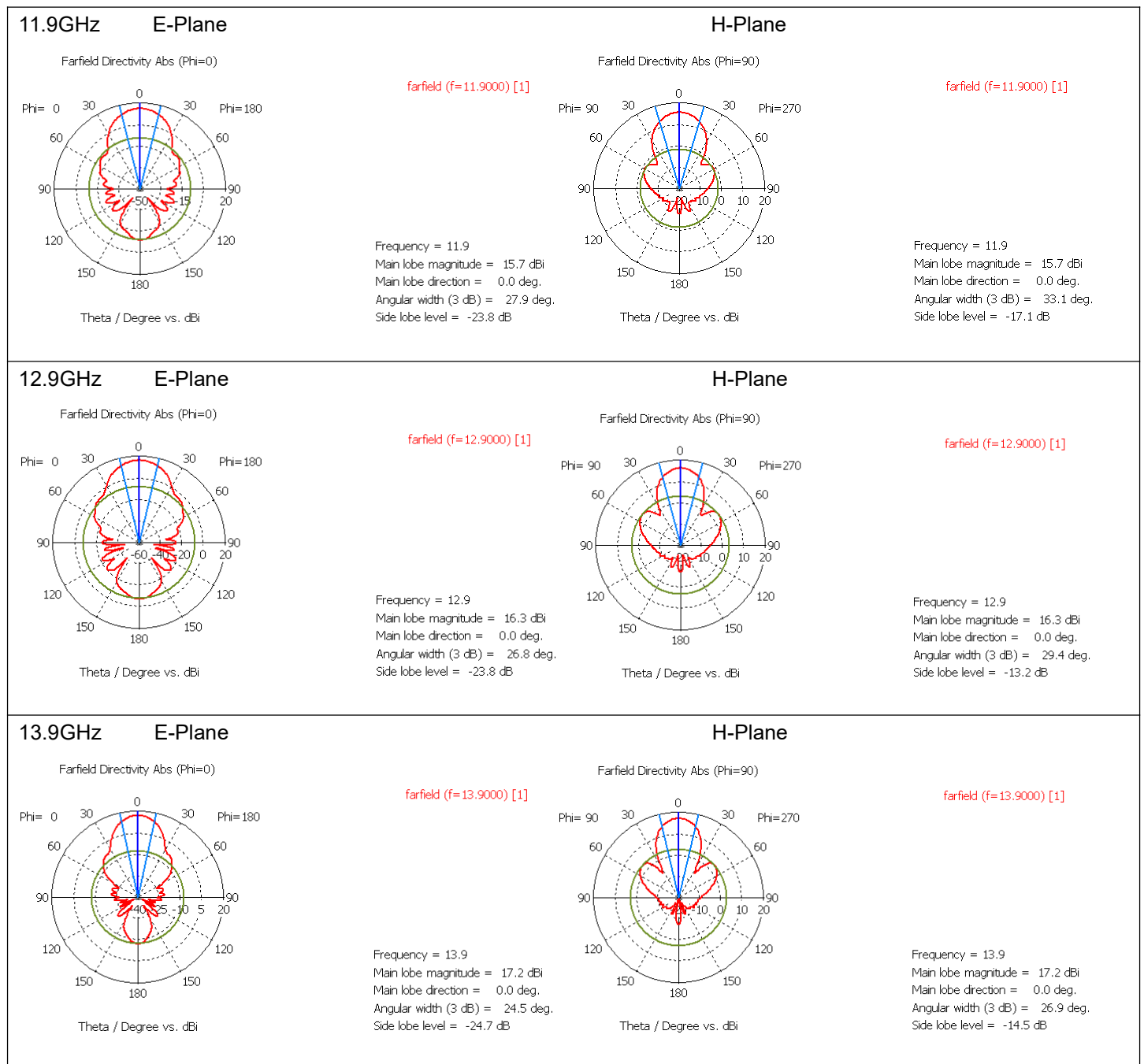
## Typical VSWR



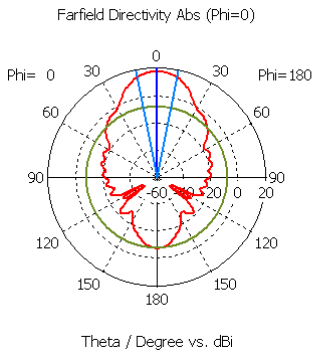
## Gain



# Simulated Antenna Patterns



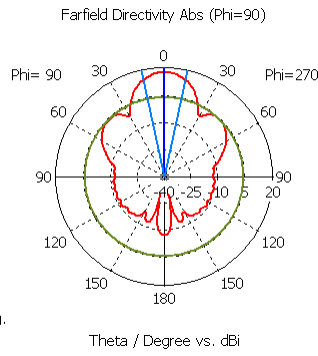
**14.9GHz E-Plane**



farfield (f=14.9000) [1]

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

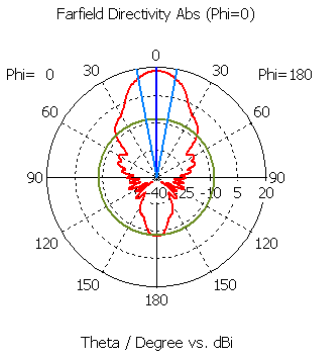
**H-Plane**



farfield (f=14.9000) [1]

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

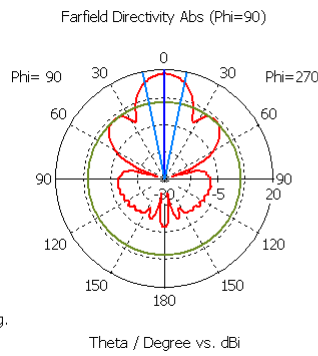
**15.9GHz E-Plane**



farfield (f=15.9000) [1]

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

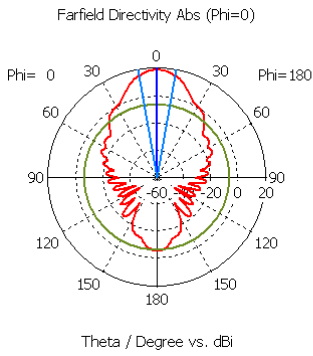
**H-Plane**



farfield (f=15.9000) [1]

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

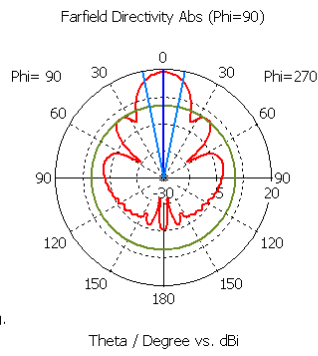
**16.9GHz E-Plane**



farfield (f=16.9000) [1]

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

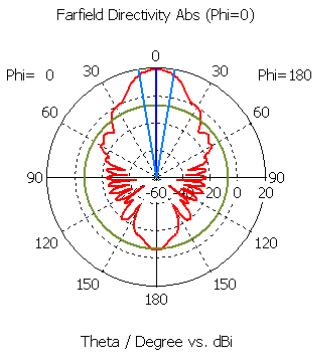
**H-Plane**



farfield (f=16.9000) [1]

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

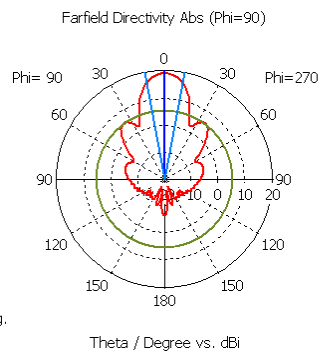
**17.9GHz E-Plane**



farfield (f=17.9000) [1]

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

**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) = 21.5 deg.  
Side lobe level = -13.5 dB