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

Rev 1

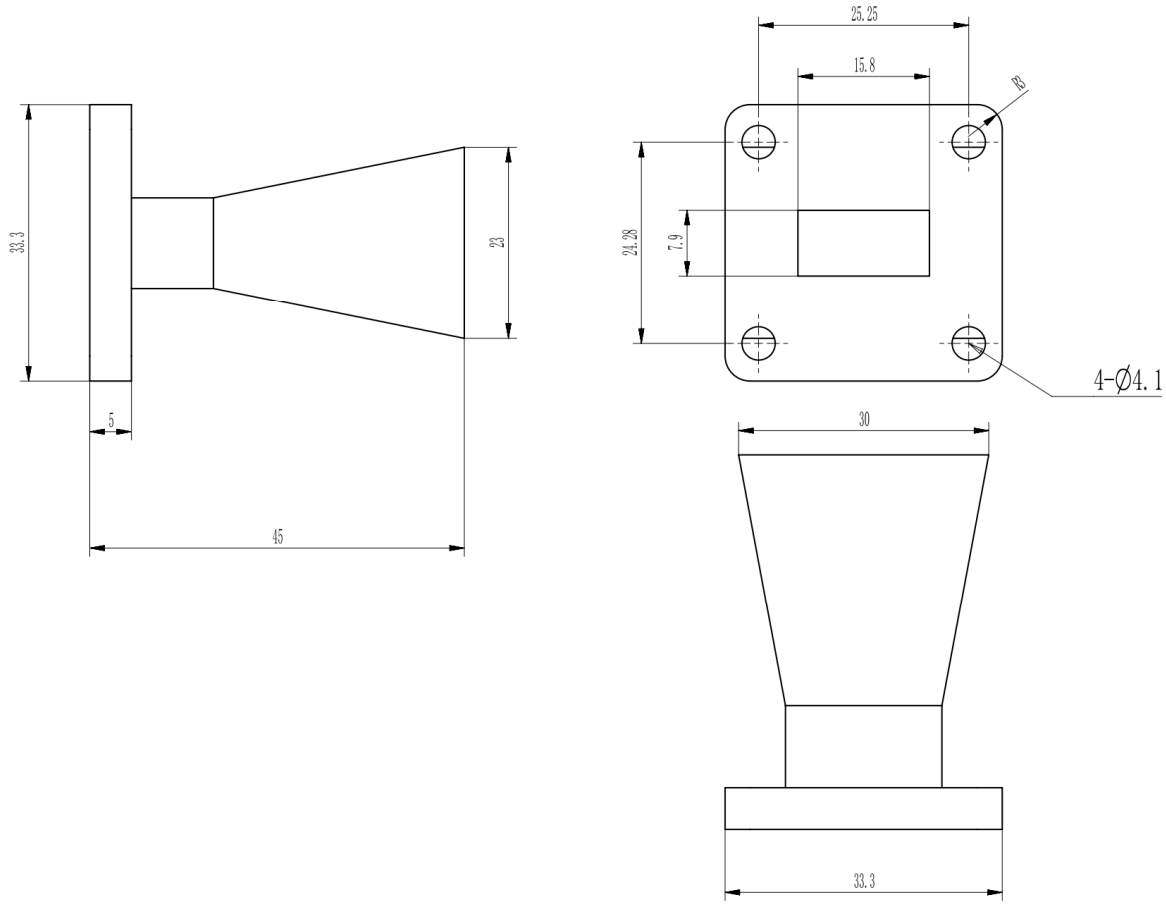
Electrical

Frequency Range	11.9-18 GHz
Norminal Gain	10 dBi
Polarization	Linear
VSWR	1.25 max
3dB Beamwidth	H-Plane: 31.7~46.7 deg, E-Plane: 33.2~51.2 deg
Operating Temperature	-40℃~+70℃

Mechanical

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

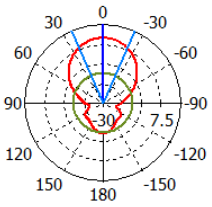
Dimensions(mm)



Simulated Antenna Patterns

11.9GHz H-Plane

Farfield Gain Abs (Phi=0)



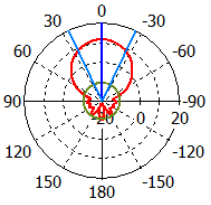
Theta / Degree vs. dB

farfield (f=11.9) [1]

Frequency = 11.9
Main lobe magnitude = 11.7 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 46.7 deg.
Side lobe level = -22.1 dB

E-Plane

Farfield Gain Abs (Phi=90)



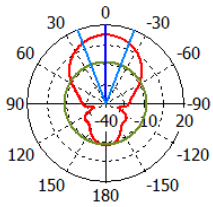
Theta / Degree vs. dB

farfield (f=11.9) [1]

Frequency = 11.9
Main lobe magnitude = 11.7 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 51.2 deg.
Side lobe level = -22.1 dB

13GHz H-Plane

Farfield Gain Abs (Phi=0)



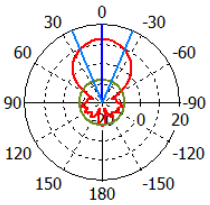
Theta / Degree vs. dB

farfield (f=13) [1]

Frequency = 13
Main lobe magnitude = 12.5 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 41.9 deg.
Side lobe level = -20.7 dB

E-Plane

Farfield Gain Abs (Phi=90)



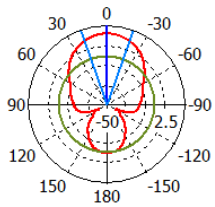
Theta / Degree vs. dB

farfield (f=13) [1]

Frequency = 13
Main lobe magnitude = 12.5 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 46.2 deg
Side lobe level = -20.7 dB

14GHz H-Plane

Farfield Gain Abs (Phi=0)



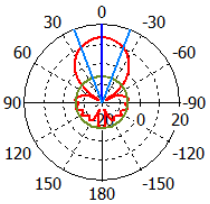
Theta / Degree vs. dB

farfield (f=14) [1]

Frequency = 14
Main lobe magnitude = 13.3 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 39.1 deg
Side lobe level = -20.0 dB

E-Plane

Farfield Gain Abs (Phi=90)



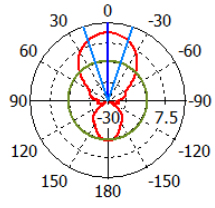
Theta / Degree vs. dB

farfield (f=14) [1]

Frequency = 14
Main lobe magnitude = 13.3 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 41.9 deg.
Side lobe level = -19.6 dB

15GHz H-Plane

Farfield Gain Abs (Phi=0)



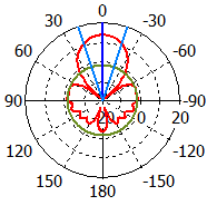
Theta / Degree vs. dB

farfield (f=15) [1]

Frequency = 15
Main lobe magnitude = 13.9 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 36.8 deg.
Side lobe level = -17.8 dB

E-Plane

Farfield Gain Abs (Phi=90)



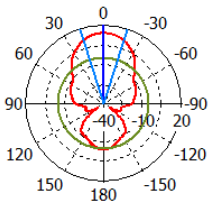
Theta / Degree vs. dB

farfield (f=15) [1]

Frequency = 15
Main lobe magnitude = 13.9 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 37.8 deg.
Side lobe level = -15.5 dB

16GHz H-Plane

Farfield Gain Abs (Phi=0)



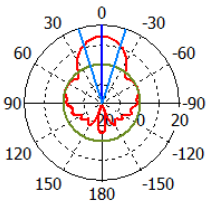
Theta / Degree vs. dB

farfield (f=16) [1]

Frequency = 16
Main lobe magnitude = 14.2 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 34.6 deg
Side lobe level = -18.8 dB

E-Plane

Farfield Gain Abs (Phi=90)



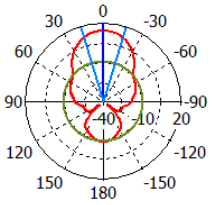
Theta / Degree vs. dB

farfield (f=16) [1]

Frequency = 16
Main lobe magnitude = 14.2 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 35.4 deg
Side lobe level = -14.2 dB

17GHz H-Plane

Farfield Gain Abs (Phi=0)



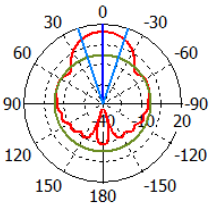
Theta / Degree vs. dB

farfield (f=17) [1]

Frequency = 17
Main lobe magnitude = 14.5 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 33.9 deg
Side lobe level = -23.4 dB

E-Plane

Farfield Gain Abs (Phi=90)



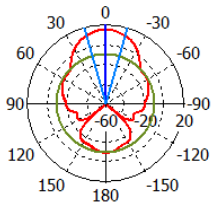
Theta / Degree vs. dB

farfield (f=17) [1]

Frequency = 17
Main lobe magnitude = 14.5 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 36.1 deg
Side lobe level = -17.3 dB

18GHz H-Plane

Farfield Gain Abs (Phi=0)



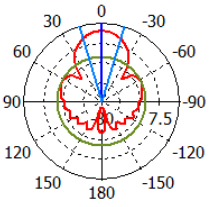
Theta / Degree vs. dB

farfield (f=18) [1]

Frequency = 18
Main lobe magnitude = 15.2 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 31.7 deg
Side lobe level = -24.9 dB

E-Plane

Farfield Gain Abs (Phi=90)



Theta / Degree vs. dB

farfield (f=18) [1]

Frequency = 18
Main lobe magnitude = 15.2 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 33.2 deg.
Side lobe level = -16.7 dB