

15 dBi Gain, 9.84-15 GHz, WR75 Standard Gain Horn with UBR120

Flange

Rev 2

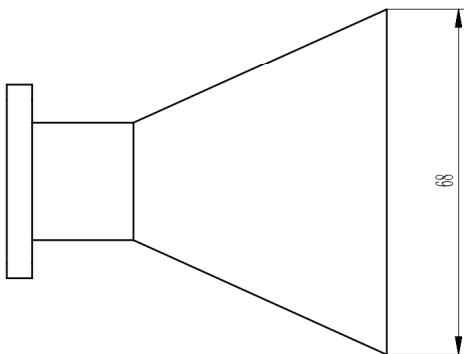
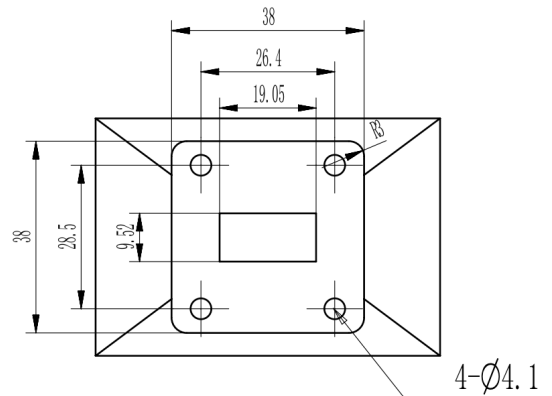
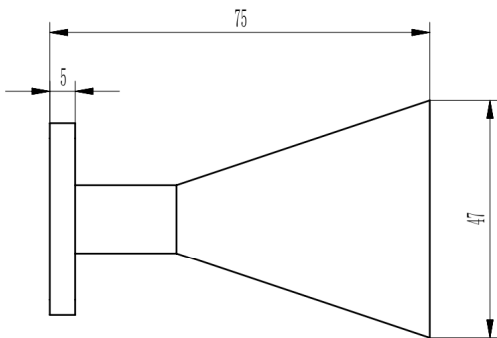
Electrical

Frequency Range	9.84-15 GHz
Norminal Gain	15 dBi
Polarization	Linear
VSWR	1.2 max
3dB Beamwidth	H-Plane: 21.9~31.4 deg, E-Plane: 22.4~30.1 deg
Operating Temperature	-40°C~+70°C

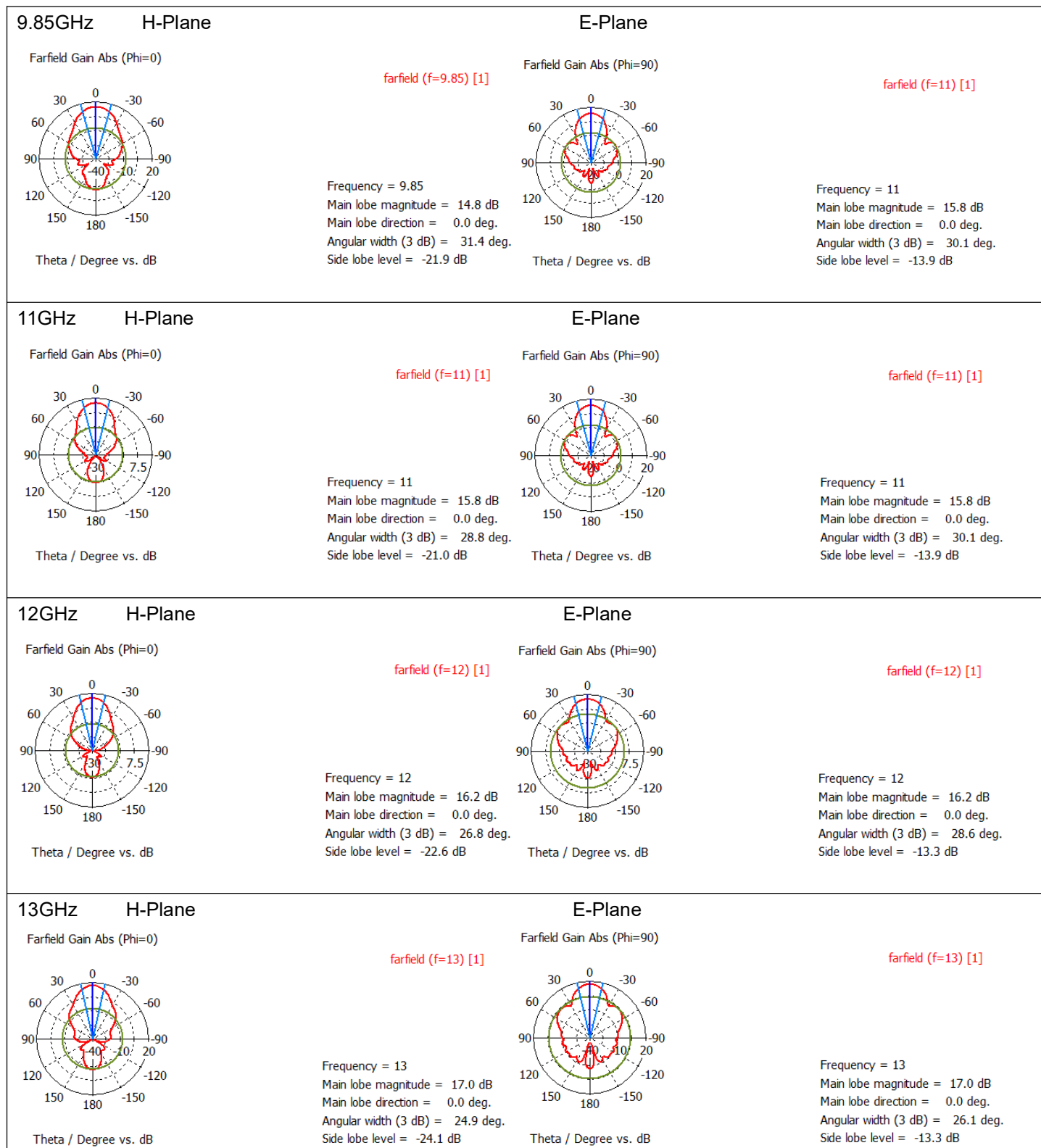
Mechanical

Waveguide Size	WR75
Flange Type	UBR120 Square Cover Flange
Body Material and Finish	Aluminum, Painted

Dimensions(mm)

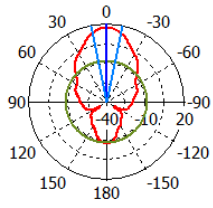


# Simulated Antenna Patterns



14GHz H-Plane

Farfield Gain Abs (Phi=0)



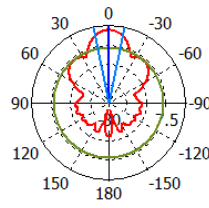
Theta / Degree vs. dB

farfield (f=14) [1]

Frequency = 14  
 Main lobe magnitude = 17.3 dB  
 Main lobe direction = 0.0 deg.  
 Angular width (3 dB) = 23.4 deg.  
 Side lobe level = -25.5 dB

E-Plane

Farfield Gain Abs (Phi=90)



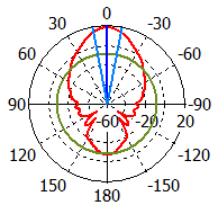
Theta / Degree vs. dB

farfield (f=14) [1]

Frequency = 14  
 Main lobe magnitude = 17.3 dB  
 Main lobe direction = 0.0 deg.  
 Angular width (3 dB) = 24.0 deg.  
 Side lobe level = -11.5 dB

15GHz H-Plane

Farfield Gain Abs (Phi=0)



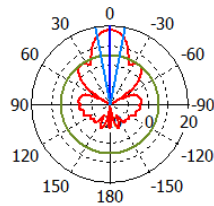
Theta / Degree vs. dB

farfield (f=15) [1]

Frequency = 15  
 Main lobe magnitude = 18.1 dB  
 Main lobe direction = 0.0 deg.  
 Angular width (3 dB) = 21.9 deg.  
 Side lobe level = -26.3 dB

E-Plane

Farfield Gain Abs (Phi=90)



Theta / Degree vs. dB

farfield (f=15) [1]

Frequency = 15  
 Main lobe magnitude = 18.1 dB  
 Main lobe direction = 0.0 deg.  
 Angular width (3 dB) = 22.4 deg.  
 Side lobe level = -13.0 dB