

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

Female Port

Rev 2

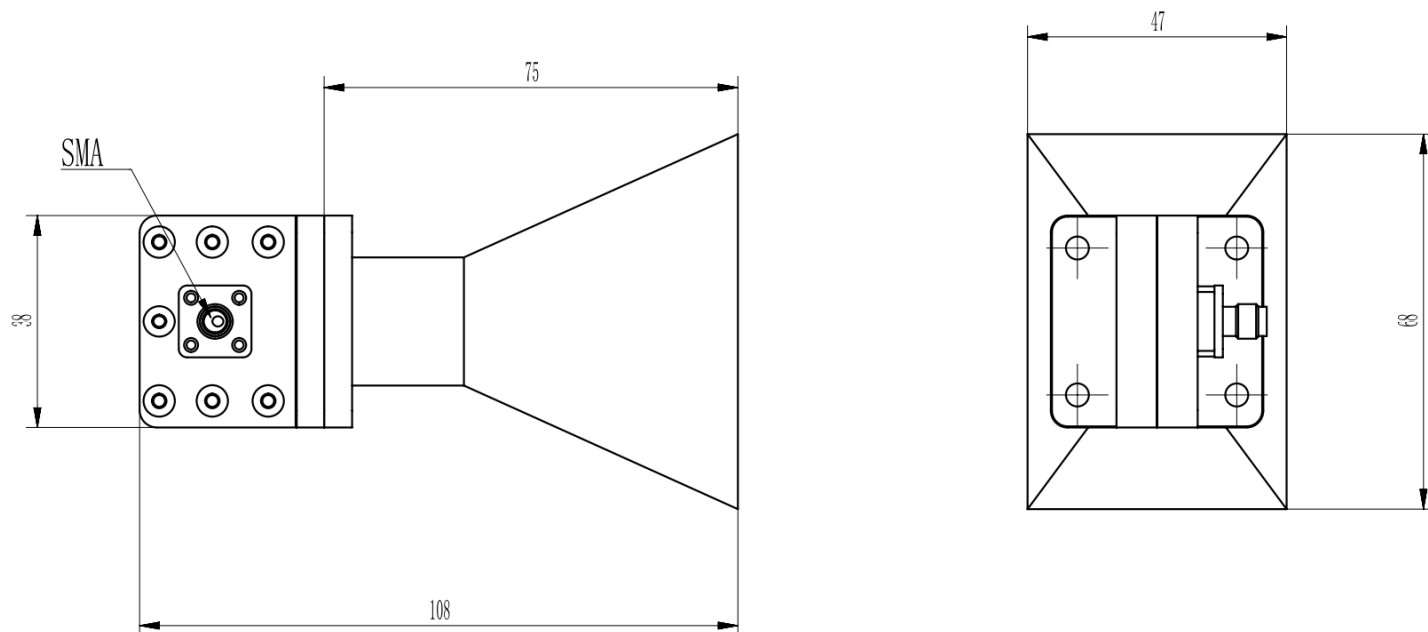
Electrical

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

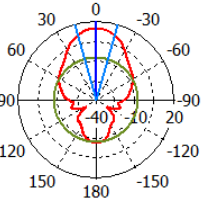
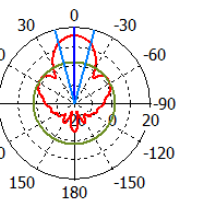
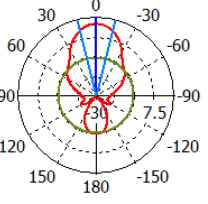
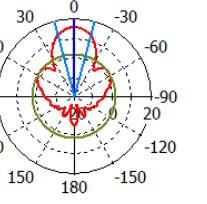
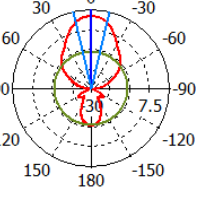
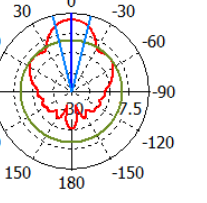
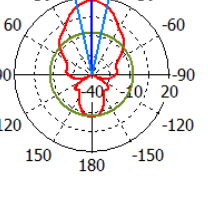
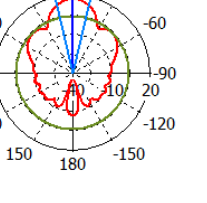
Mechanical

Waveguide Size	WR75
Flange Type	UBR120 Square Cover Flange
Body Material and Finish	Aluminum, Painted
RF Connector	SMA Female

Dimensions(mm)

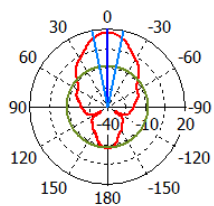


Simulated Antenna Patterns

9.85GHz E-Plane Farfield Gain Abs (Phi=0)  Theta / Degree vs. dB Frequency = 9.85 Main lobe magnitude = 14.8 dB Main lobe direction = 0.0 deg. Angular width (3 dB) = 31.4 deg. Side lobe level = -21.9 dB	H-Plane Farfield Gain Abs (Phi=90)  Theta / Degree vs. dB Frequency = 11 Main lobe magnitude = 15.8 dB Main lobe direction = 0.0 deg. Angular width (3 dB) = 30.1 deg. Side lobe level = -13.9 dB
11GHz E-Plane Farfield Gain Abs (Phi=0)  Theta / Degree vs. dB Frequency = 11 Main lobe magnitude = 15.8 dB Main lobe direction = 0.0 deg. Angular width (3 dB) = 28.8 deg. Side lobe level = -21.0 dB	H-Plane Farfield Gain Abs (Phi=90)  Theta / Degree vs. dB Frequency = 11 Main lobe magnitude = 15.8 dB Main lobe direction = 0.0 deg. Angular width (3 dB) = 30.1 deg. Side lobe level = -13.9 dB
12GHz E-Plane Farfield Gain Abs (Phi=0)  Theta / Degree vs. dB Frequency = 12 Main lobe magnitude = 16.2 dB Main lobe direction = 0.0 deg. Angular width (3 dB) = 26.8 deg. Side lobe level = -22.6 dB	H-Plane Farfield Gain Abs (Phi=90)  Theta / Degree vs. dB Frequency = 12 Main lobe magnitude = 16.2 dB Main lobe direction = 0.0 deg. Angular width (3 dB) = 28.6 deg. Side lobe level = -13.3 dB
13GHz E-Plane Farfield Gain Abs (Phi=0)  Theta / Degree vs. dB Frequency = 13 Main lobe magnitude = 17.0 dB Main lobe direction = 0.0 deg. Angular width (3 dB) = 24.9 deg. Side lobe level = -24.1 dB	H-Plane Farfield Gain Abs (Phi=90)  Theta / Degree vs. dB Frequency = 13 Main lobe magnitude = 17.0 dB Main lobe direction = 0.0 deg. Angular width (3 dB) = 26.1 deg. Side lobe level = -13.3 dB

14GHz E-Plane

Farfield Gain Abs (Phi=0)



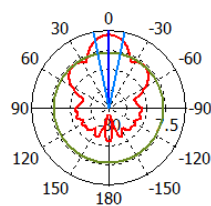
Theta / Degree vs. dB

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

H-Plane

Farfield Gain Abs (Phi=90)



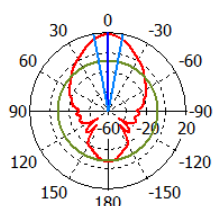
Theta / Degree vs. dB

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 E-Plane

Farfield Gain Abs (Phi=0)



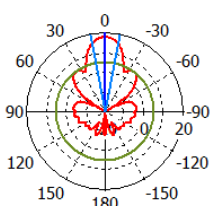
Theta / Degree vs. dB

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

H-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