RH15-185-25

25 dBi Gain, 49.8-70 GHz, WR15 Standard Gain Horn with 1.85mm Female Port

Rev 1

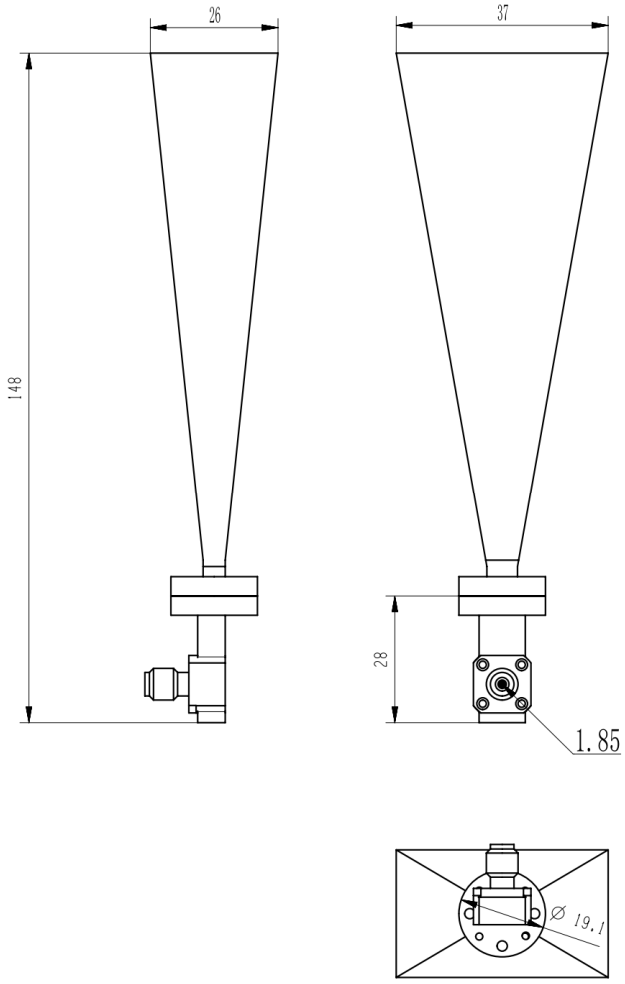
Electrical

Frequency Range	49.8-70 GHz
Norminal Gain	25 dBi
Polarization	Linear
VSWR	1.5 max
3dB Beamwidth	E-Plane: 7.6~10.7 deg, H-Plane: 7.3~10.9 deg
Operating Temperature	-40℃~+70℃

Mechanical

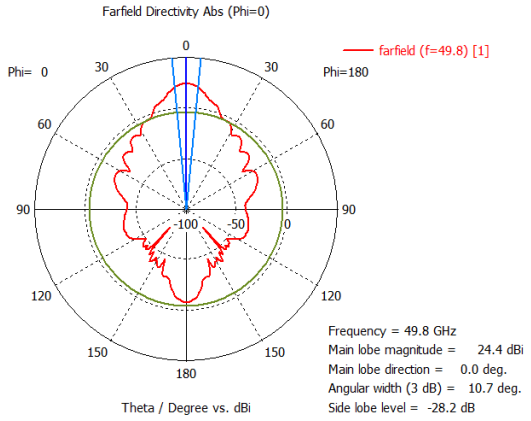
Waveguide Size	WR15
Flange Type	UG385/U Round Cover Flange
Body Material and Finish	Painting over gold plating
RF Connector	1.85mm Female

Dimensions(mm)



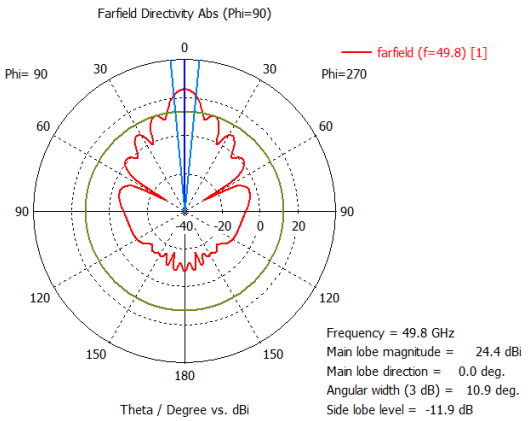
Simulated Antenna Patterns

49.8GHz E-Plane



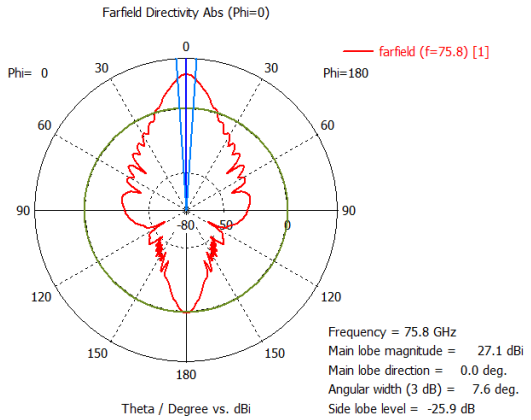
Frequency = 49.8 GHz
Main lobe magnitude = 24.4 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 10.7 deg.
Side lobe level = -28.2 dB

H-Plane



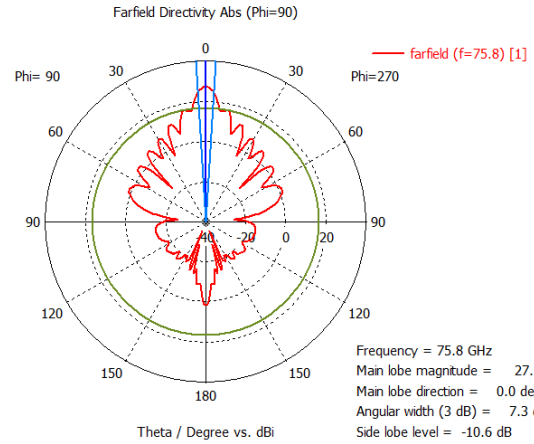
Frequency = 49.8 GHz
Main lobe magnitude = 24.4 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 10.9 deg.
Side lobe level = -11.9 dB

78.8GHz E-Plane



Frequency = 75.8 GHz
Main lobe magnitude = 27.1 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 7.6 deg.
Side lobe level = -25.9 dB

H-Plane



Frequency = 75.8 GHz
Main lobe magnitude = 27.1 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 7.3 deg.
Side lobe level = -10.6 dB