RH10-1-25

25 dBi Gain, 73.8-110 GHz, WR10 Standard Gain Horn with 1.0mm Female Port

Rev 1

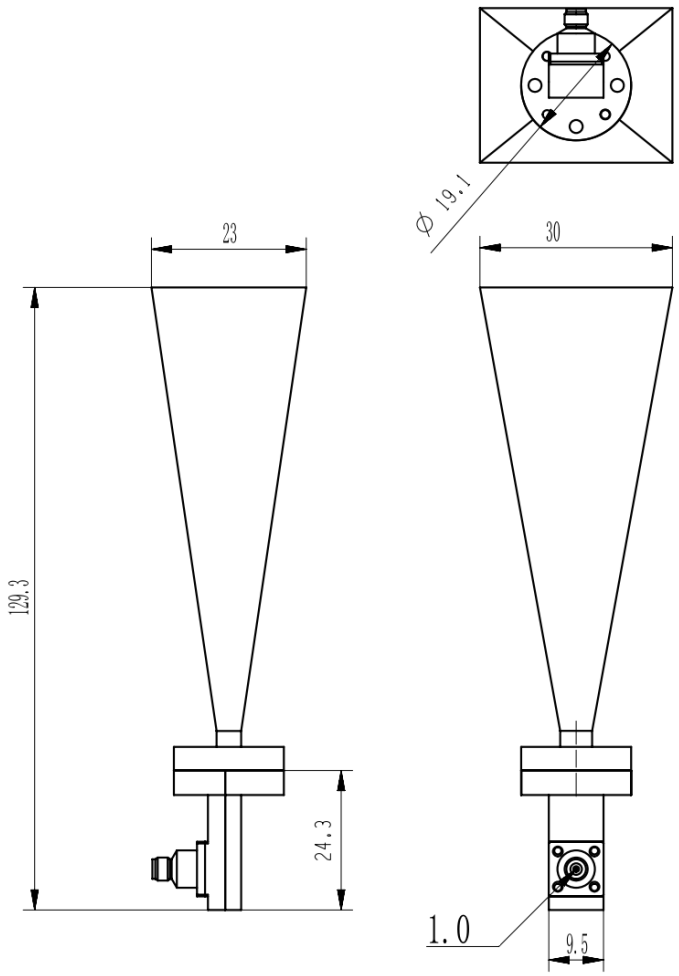
Electrical

Frequency Range	73.8-110 GHz
Norminal Gain	25 dBi
Polarization	Linear
VSWR	1.5 max
3dB Beamwidth	E-Plane: 5.5~9.6 deg, H-Plane: 4.2~8.3 deg
Operating Temperature	-40℃~+70℃

Mechanical

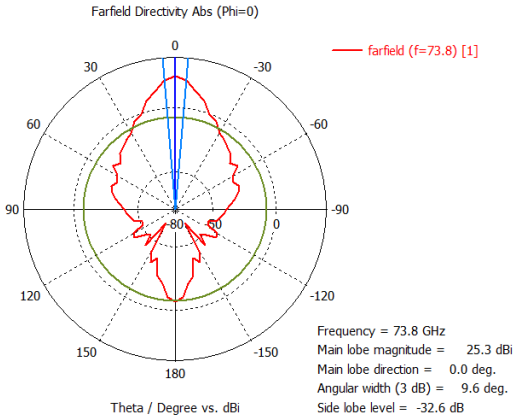
Waveguide Size	WR10
Flange Type	UG387/U-Mod Round Cover Flange
Body Material and Finish	Copper, Gold Plated
RF Connector	1.0mm Female

Dimensions(mm)



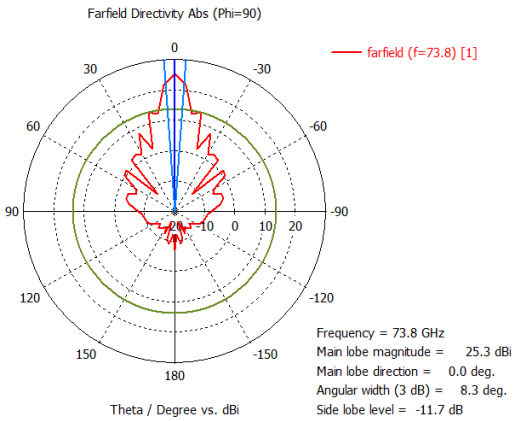
Simulated Antenna Patterns

73.8GHz E-Plane



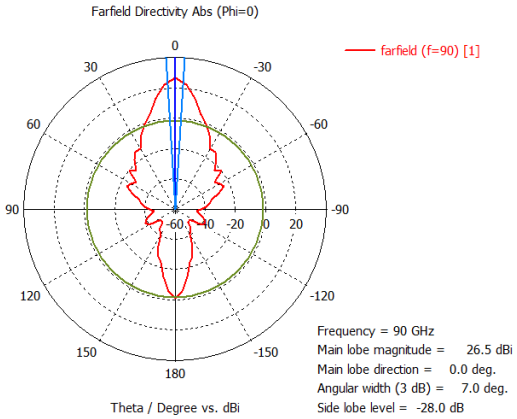
Frequency = 73.8 GHz
Main lobe magnitude = 25.3 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 9.6 deg.
Side lobe level = -32.6 dB

H-Plane



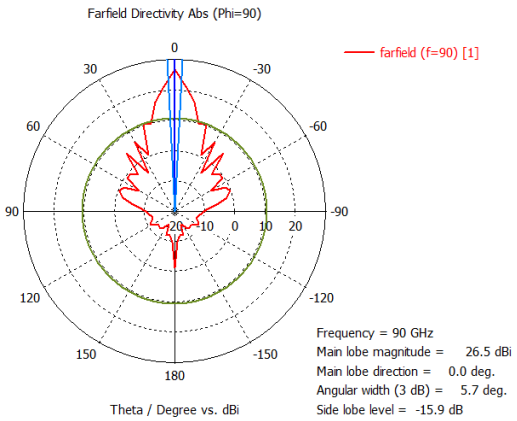
Frequency = 73.8 GHz
Main lobe magnitude = 25.3 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 8.3 deg.
Side lobe level = -11.7 dB

90GHz E-Plane



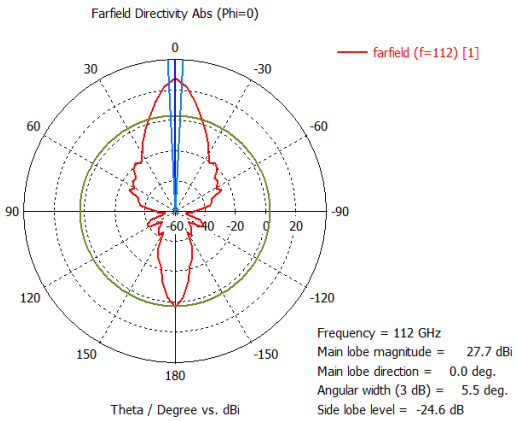
Frequency = 90 GHz
Main lobe magnitude = 26.5 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 7.0 deg.
Side lobe level = -28.0 dB

H-Plane



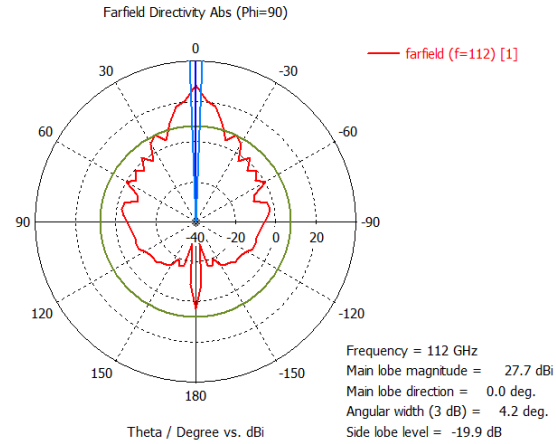
Frequency = 90 GHz
Main lobe magnitude = 26.5 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 5.7 deg.
Side lobe level = -15.9 dB

112GHz E-Plane



Frequency = 112 GHz
Main lobe magnitude = 27.7 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 5.5 deg.
Side lobe level = -24.6 dB

H-Plane



Frequency = 112 GHz
Main lobe magnitude = 27.7 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 4.2 deg.
Side lobe level = -19.9 dB