



10 dBi Gain, 3.22-4.9 GHz, WR229 Standard Gain Horn with SMA Female Port

Rev 2

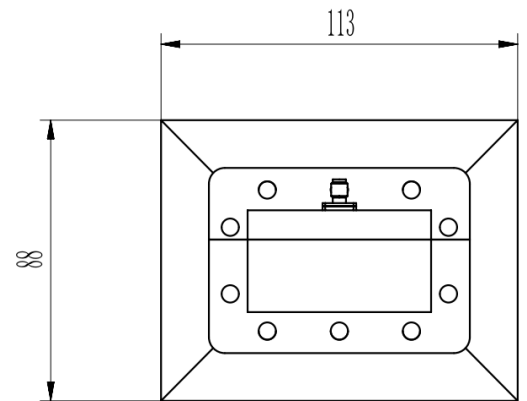
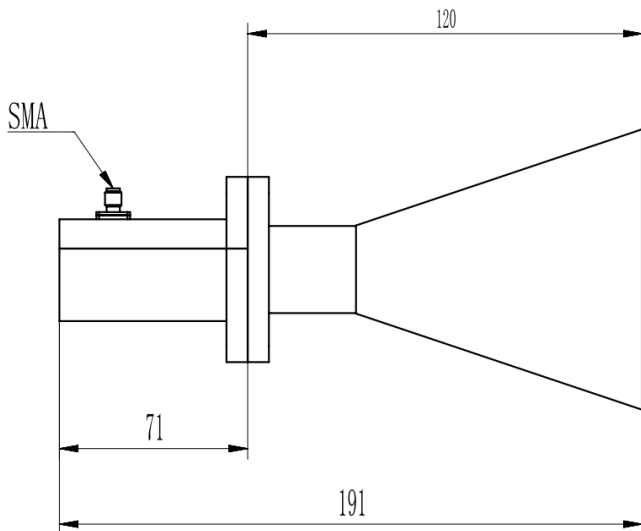
Electrical

Frequency Range	3.22-4.9 GHz
Norminal Gain	10 dBi
Polarization	Linear
VSWR	1.4 max
3dB Beamwidth	H-Plane: 36.1~54.2 deg, E-Plane: 33.6~56.1 deg
Operating Temperature	-40°C~+70°C

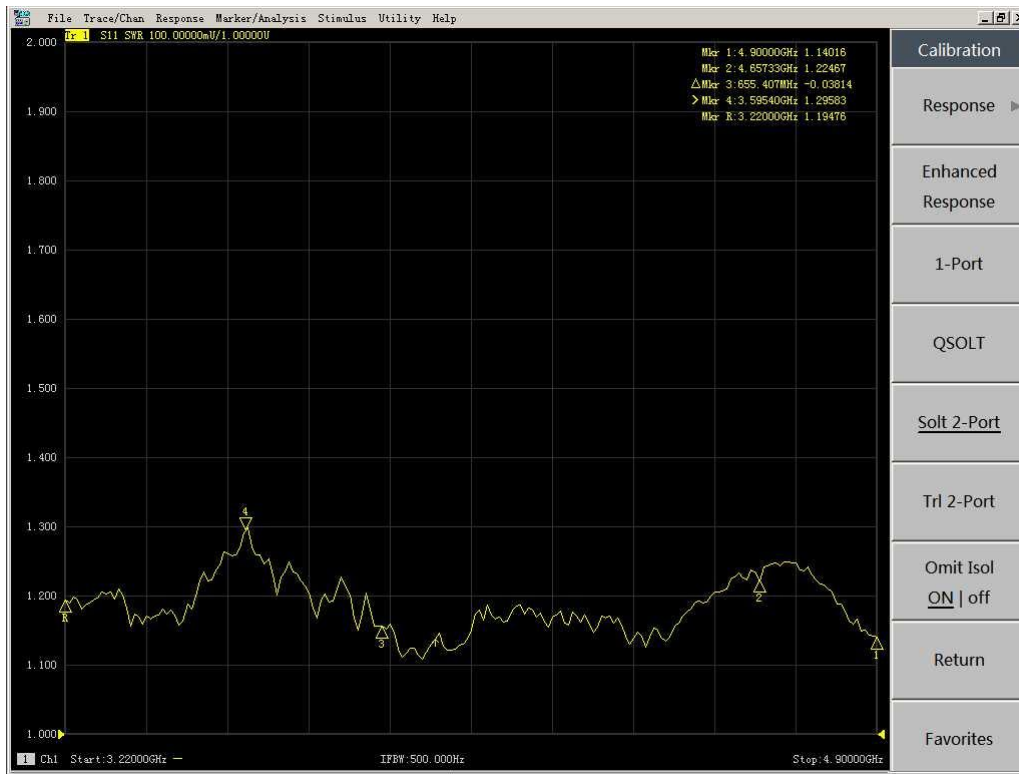
Mechanical

Waveguide Size	WR229
Flange Type	UDR40 Rectangular Cover Flange
Body Material and Finish	Aluminum, Painted
RF Connector	SMA Female
Net Weight	2.5kg

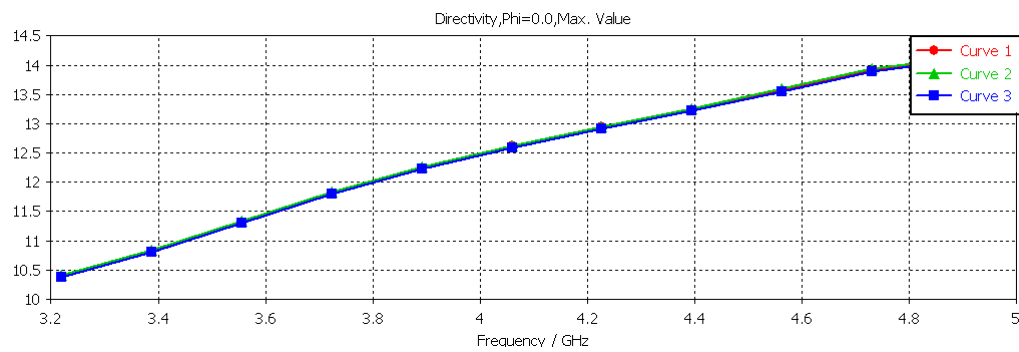
Dimensions(mm)



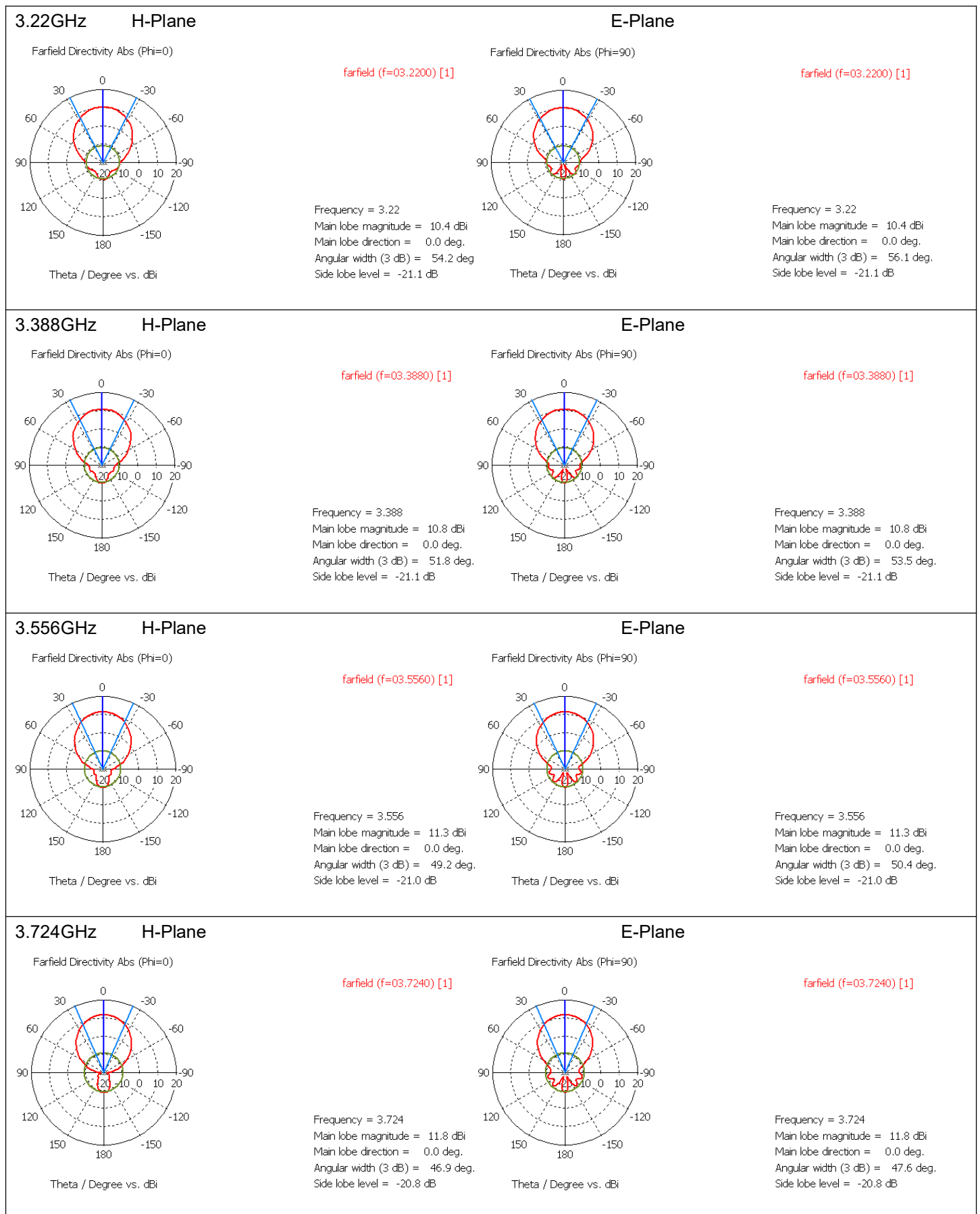
Typical VSWR



Gain

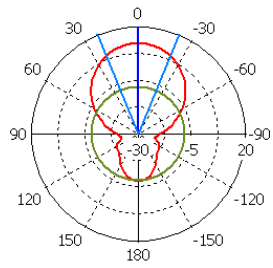


Simulated Antenna Patterns



3.892GHz H-Plane

Farfield Directivity Abs (Phi=0)



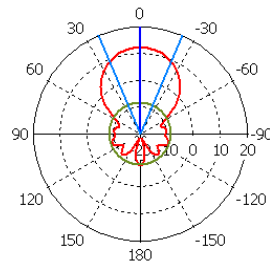
Theta / Degree vs. dBi

farfield (f=03.8920) [1]

Frequency = 3.892
Main lobe magnitude = 12.2 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 45.0 deg.
Side lobe level = -20.5 dB

E-Plane

Farfield Directivity Abs (Phi=90)



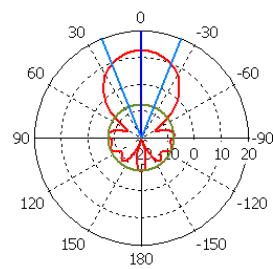
Theta / Degree vs. dBi

farfield (f=03.8920) [1]

Frequency = 3.892
Main lobe magnitude = 12.2 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 45.7 deg.
Side lobe level = -20.5 dB

4.06GHz H-Plane

Farfield Directivity Abs (Phi=90)



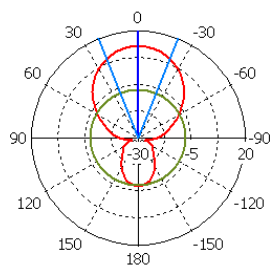
Theta / Degree vs. dBi

farfield (f=04.0600) [1]

Frequency = 4.06
Main lobe magnitude = 12.6 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 44.1 deg.
Side lobe level = -20.1 dB

E-Plane

Farfield Directivity Abs (Phi=0)



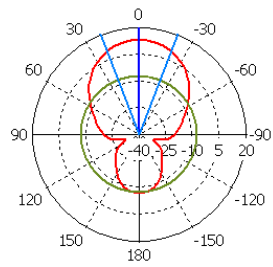
Theta / Degree vs. dBi

farfield (f=04.0600) [1]

Frequency = 4.06
Main lobe magnitude = 12.6 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 43.4 deg.
Side lobe level = -20.3 dB

4.228GHz H-Plane

Farfield Directivity Abs (Phi=0)



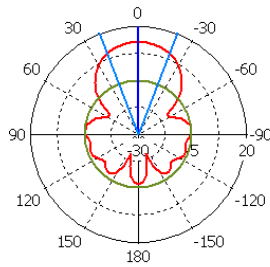
Theta / Degree vs. dBi

farfield (f=04.2280) [1]

Frequency = 4.228
Main lobe magnitude = 12.9 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 42.0 deg.
Side lobe level = -20.1 dB

E-Plane

Farfield Directivity Abs (Phi=90)



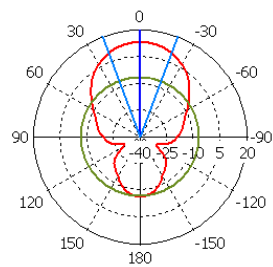
Theta / Degree vs. dBi

farfield (f=04.2280) [1]

Frequency = 4.228
Main lobe magnitude = 12.9 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 42.4 deg.
Side lobe level = -18.3 dB

4.396GHz H-Plane

Farfield Directivity Abs (Phi=0)



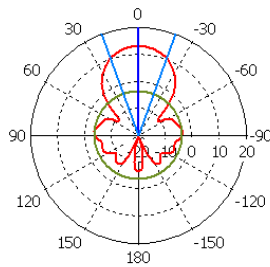
Theta / Degree vs. dBi

farfield (f=04.3960) [1]

Frequency = 4.396
Main lobe magnitude = 13.2 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 40.8 deg.
Side lobe level = -20.0 dB

E-Plane

Farfield Directivity Abs (Phi=90)



Theta / Degree vs. dBi

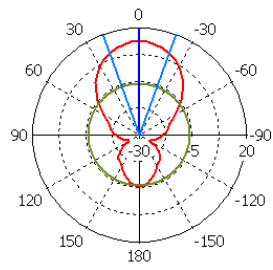
farfield (f=04.3960) [1]

Frequency = 4.396
Main lobe magnitude = 13.2 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 40.2 deg.
Side lobe level = -16.8 dB

4.564GHz H-Plane

E-Plane

Farfield Directivity Abs (Phi=0)

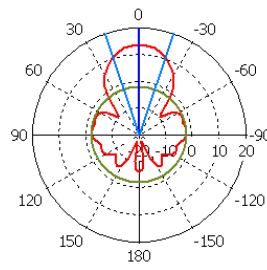


Theta / Degree vs. dBi

farfield (f=04.5640) [1]

Frequency = 4.564
Main lobe magnitude = 13.6 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 39.5 deg.
Side lobe level = -19.9 dB

Farfield Directivity Abs (Phi=90)



Theta / Degree vs. dBi

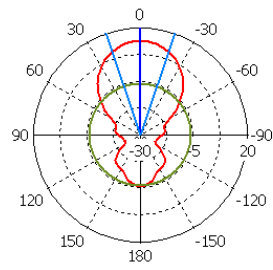
farfield (f=04.5640) [1]

Frequency = 4.564
Main lobe magnitude = 13.6 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 37.2 deg.
Side lobe level = -15.8 dB

4.732GHz H-Plane

E-Plane

Farfield Directivity Abs (Phi=0)

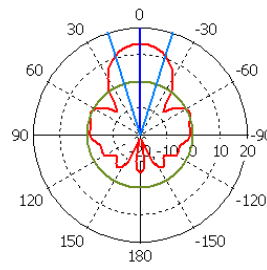


Theta / Degree vs. dBi

farfield (f=04.7320) [1]

Frequency = 4.732
Main lobe magnitude = 13.9 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 37.8 deg.
Side lobe level = -19.9 dB

Farfield Directivity Abs (Phi=90)



Theta / Degree vs. dBi

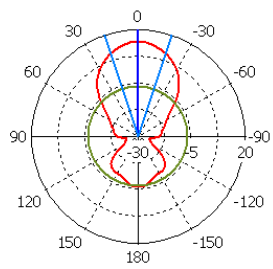
farfield (f=04.7320) [1]

Frequency = 4.732
Main lobe magnitude = 13.9 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 34.7 deg.
Side lobe level = -13.8 dB

4.9GHz H-Plane

E-Plane

Farfield Directivity Abs (Phi=0)

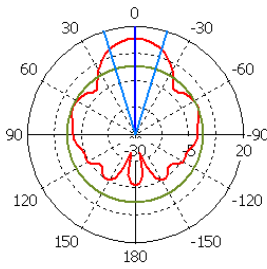


Theta / Degree vs. dBi

farfield (f=04.9000) [1]

Frequency = 4.9
Main lobe magnitude = 14.1 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 36.1 deg.
Side lobe level = -20.5 dB

Farfield Directivity Abs (Phi=90)



Theta / Degree vs. dBi

farfield (f=04.9000) [1]

Frequency = 4.9
Main lobe magnitude = 14.1 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 33.6 deg.
Side lobe level = -12.6 dB