



15 dBi Gain, 8.2-12.5 GHz, WR90 Standard Gain Horn with SMA Female Port

Rev 3

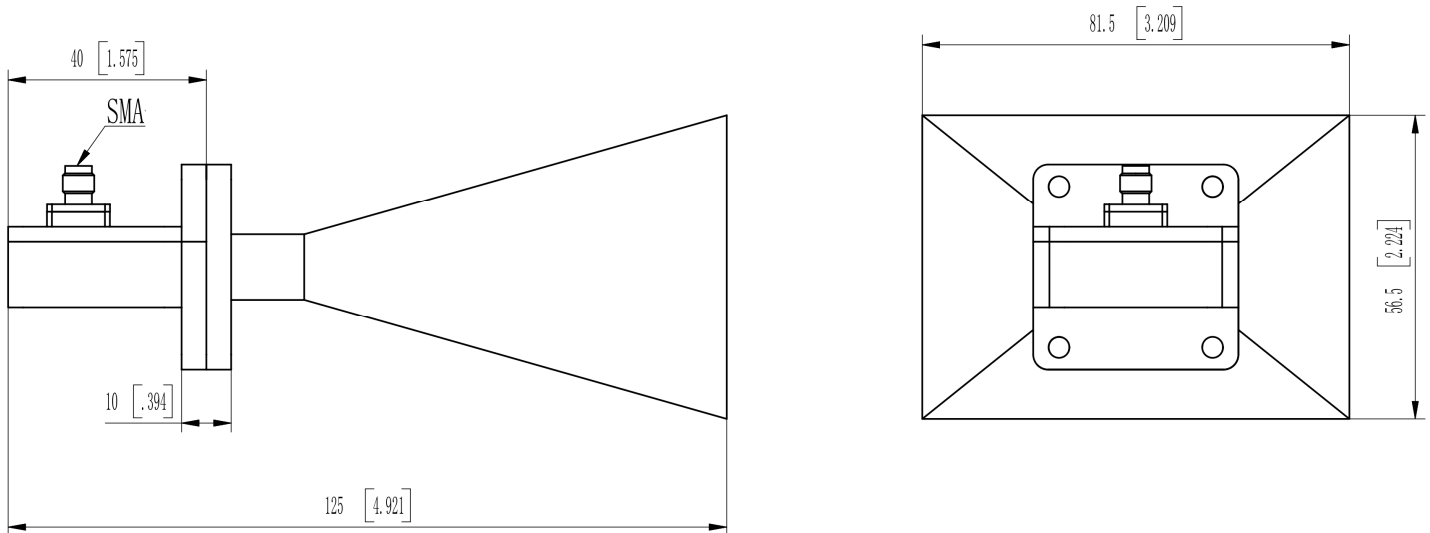
Electrical

Frequency Range	8.2-12.5 GHz
Norminal Gain	15 dBi
Polarization	Linear
VSWR	1.3 max
3dB Beamwidth	H-Plane: 23.0~34.1 deg, E-Plane: 21.7~34.8 deg
Operating Temperature	-40°C~+70°C

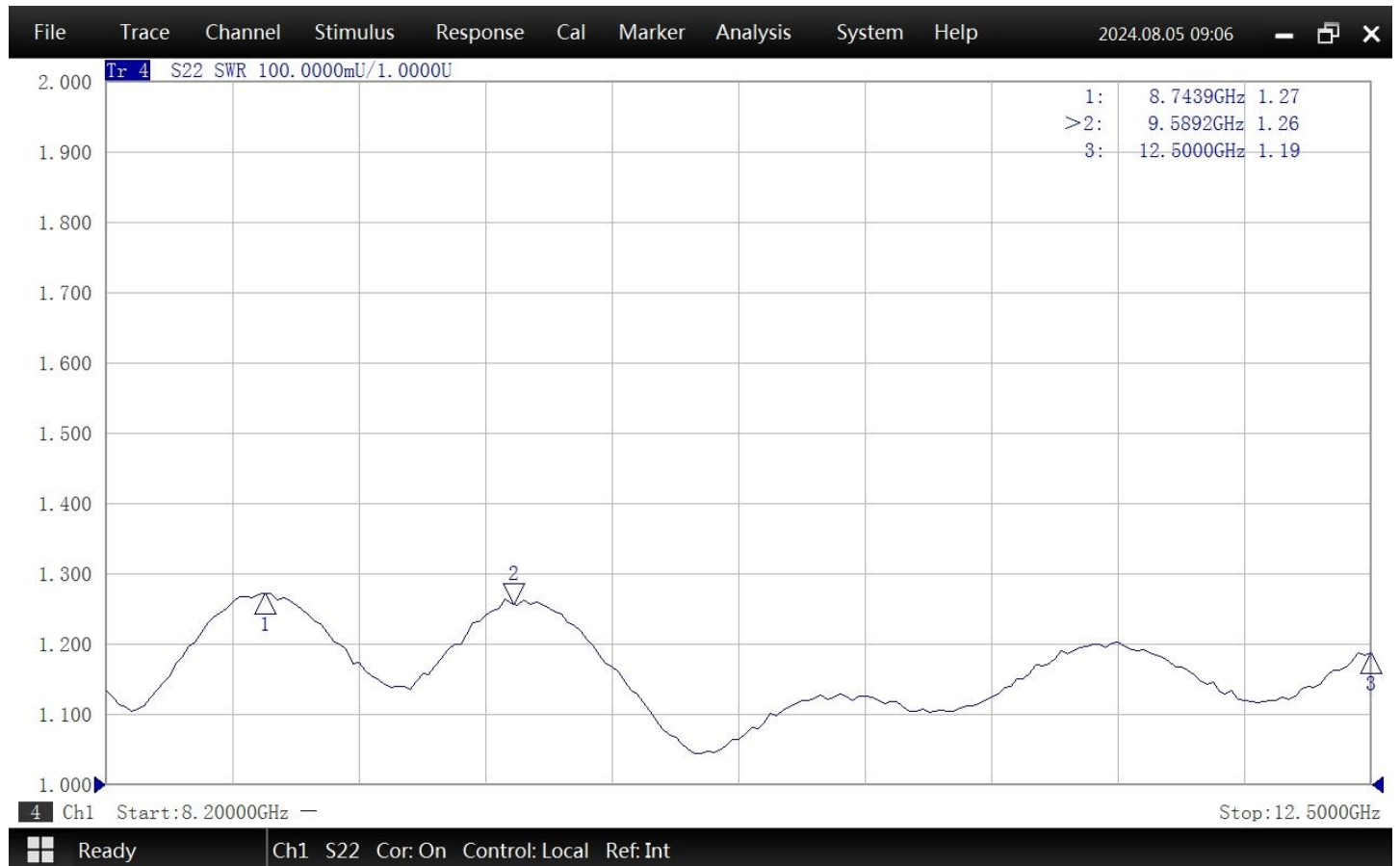
Mechanical

Waveguide Size	WR90
Flange Type	UBR100 Square Cover Flange
Body Material and Finish	Aluminum, Painted
RF Connector	SMA Female
Net Weight	140g

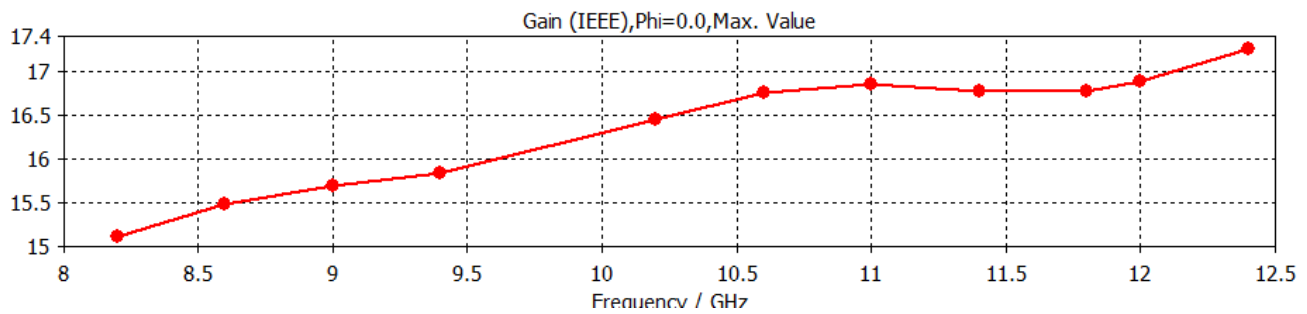
Dimensions mm[inch]



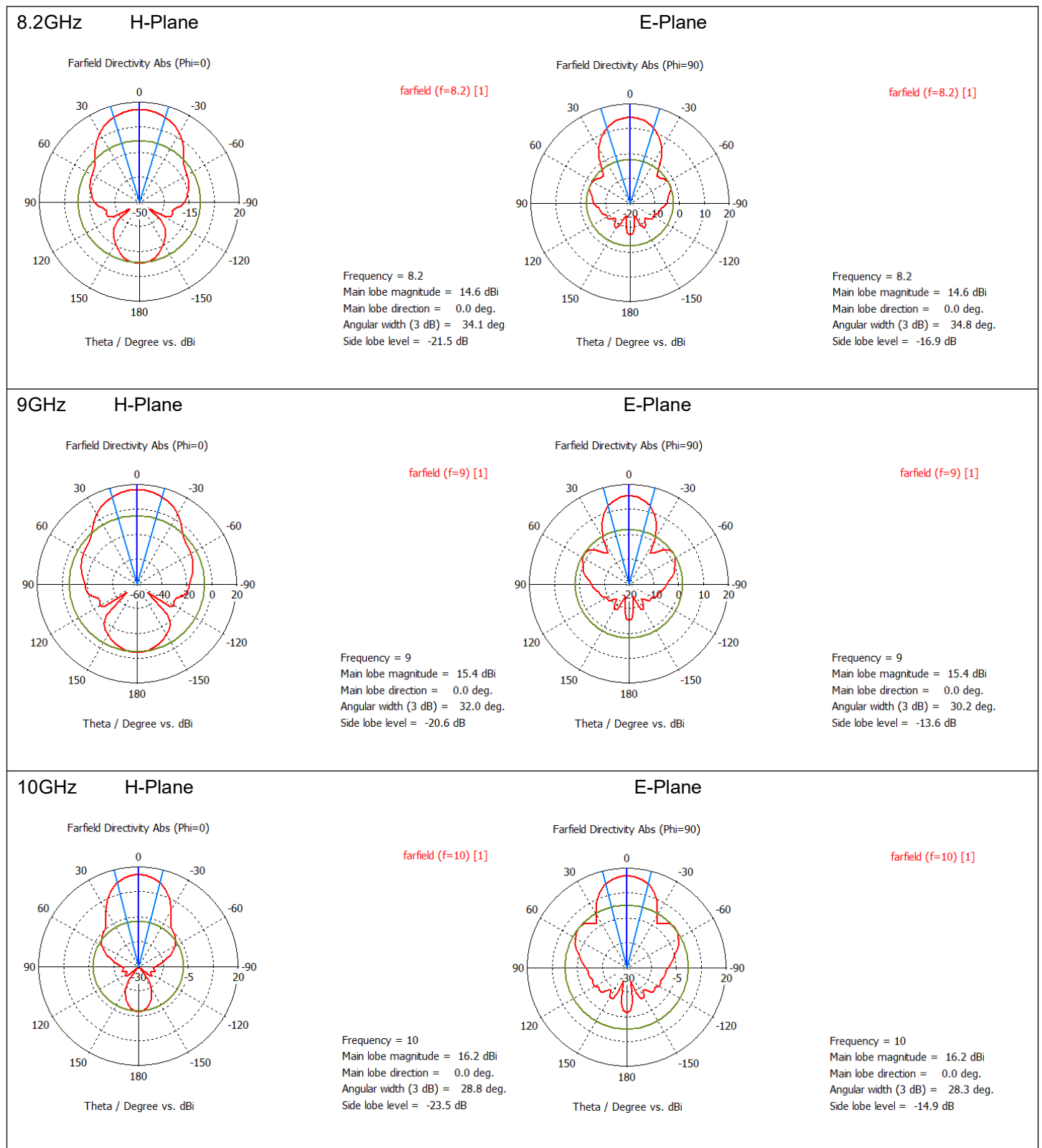
Typical VSWR



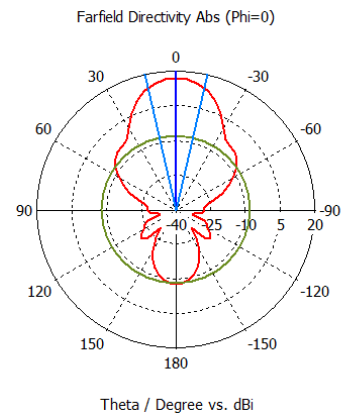
Gain



Simulated Antenna Patterns



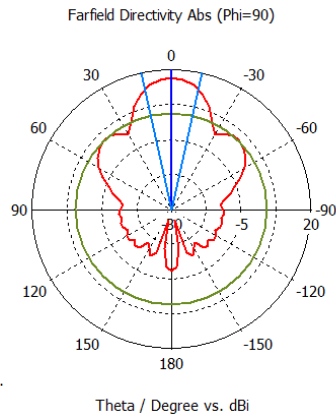
11GHz H-Plane



farfield (f=11) [1]

Frequency = 11
 Main lobe magnitude = 16.9 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 25.9 deg.
 Side lobe level = -24.9 dB

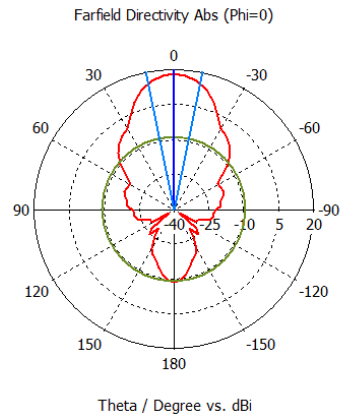
E-Plane



farfield (f=11) [1]

Frequency = 11
 Main lobe magnitude = 16.9 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 25.0 deg.
 Side lobe level = -12.5 dB

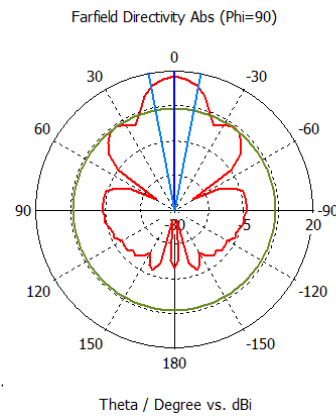
12.4GHz H-Plane



farfield (f=12.4) [1]

Frequency = 12.4
 Main lobe magnitude = 17.9 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 23.0 deg.
 Side lobe level = -26.9 dB

E-Plane



farfield (f=12.4) [1]

Frequency = 12.4
 Main lobe magnitude = 17.9 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 21.7 deg.
 Side lobe level = -11.3 dB