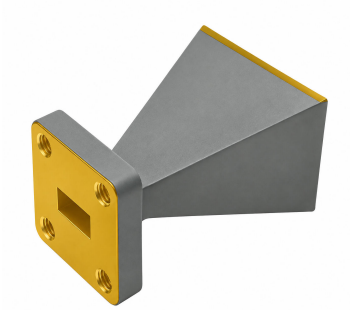
HR34-15



15 dBi Gain, 21.7-33 GHz, WR34 Standard Gain Horn with UBR260 Flange

Electrical

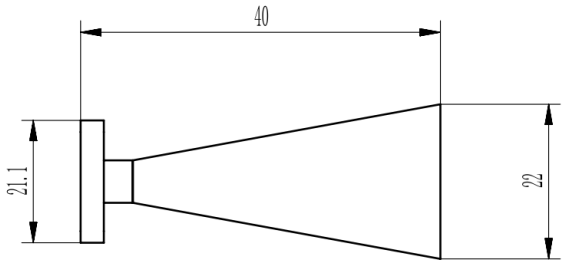
Frequency Range	21.7-33 GHz
Norminal Gain	15 dBi
Polarization	Linear
VSWR	1.2 max
3dB Beamwidth	H-Plane: 21.2~31.1 deg, E-Plane: 22.4~34.9 deg
Operating Temperature	-40℃~+70℃

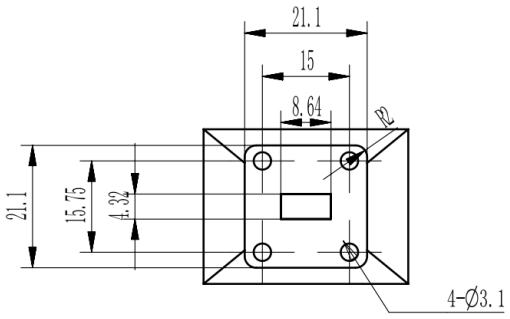
Note: Measured pattern data is not provided by default. CST simulated data & VSWR measurement available.

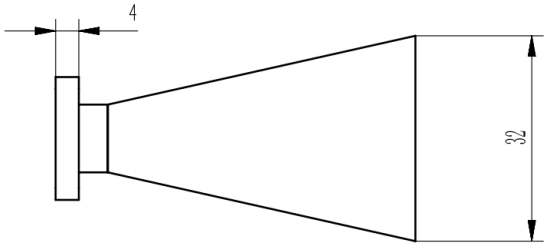
Mechanical

Waveguide Size	WR34
Flange Type	UBR260 Square Cover Flange
Body Material and Finish	Copper, Painted

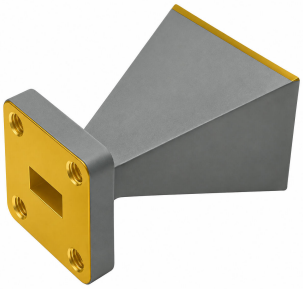
Dimensions(mm)





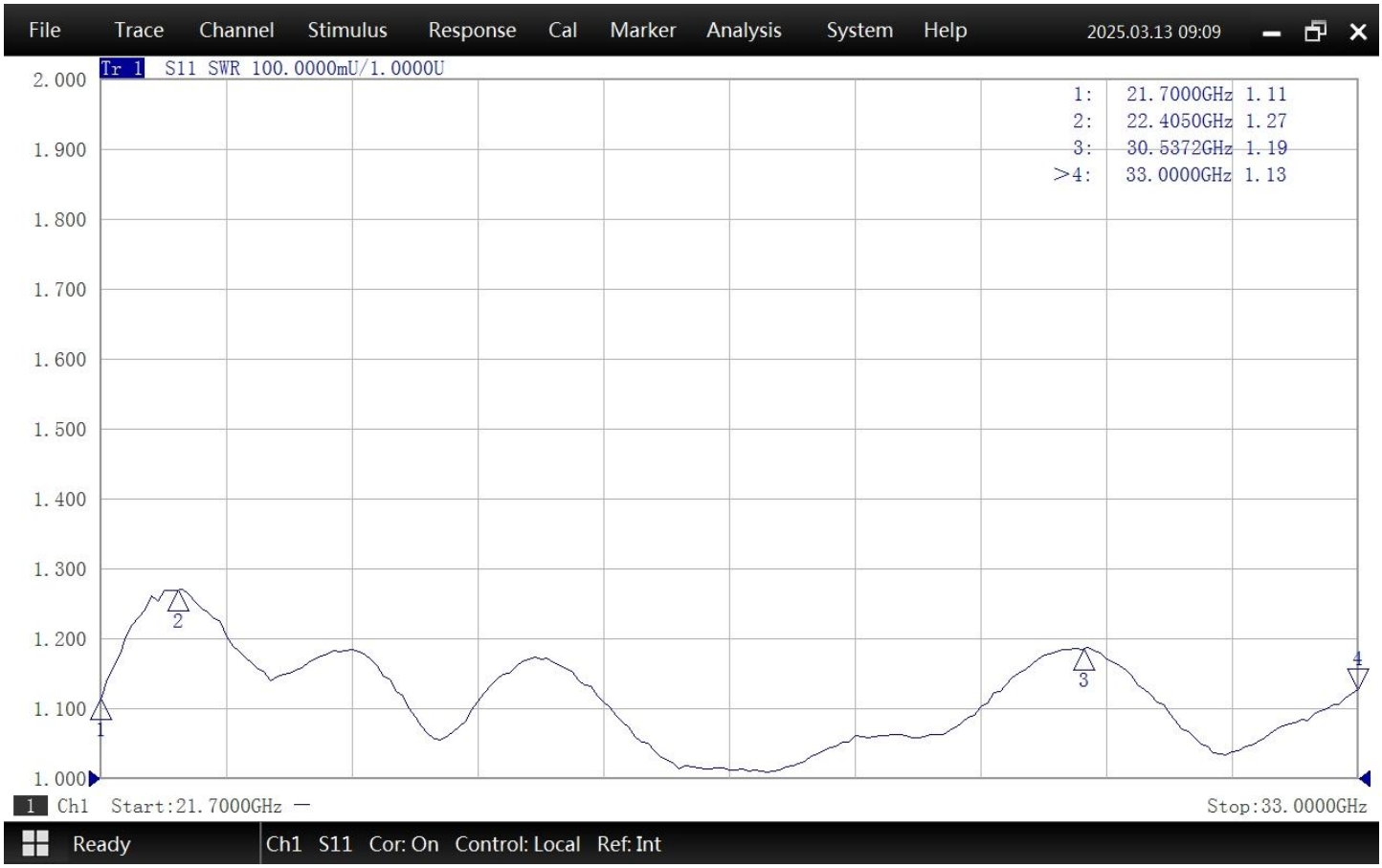


HR34-15

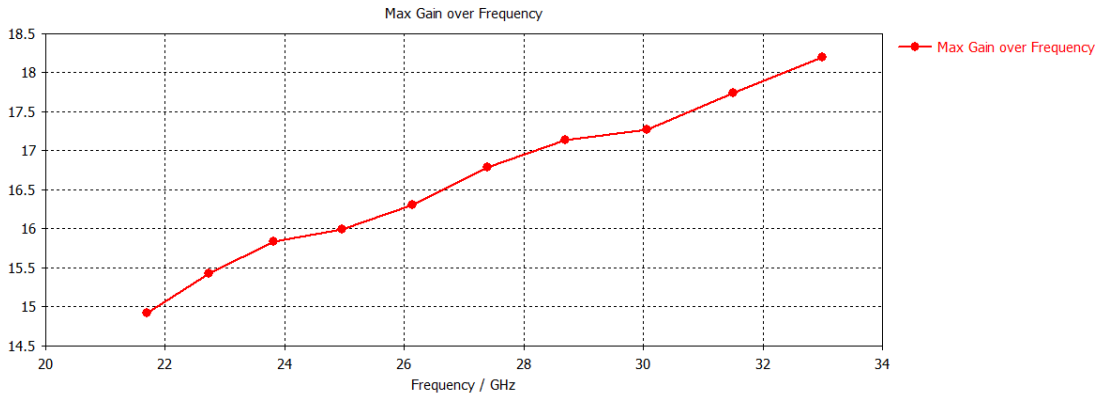


15 dBi Gain, 21.7-33 GHz, WR34 Standard Gain Horn with UBR260 Flange

Typical VSWR

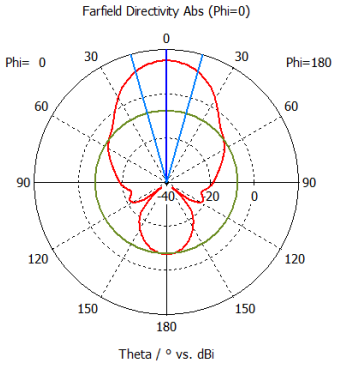


Simulated Gain



Simulated Antenna Patterns

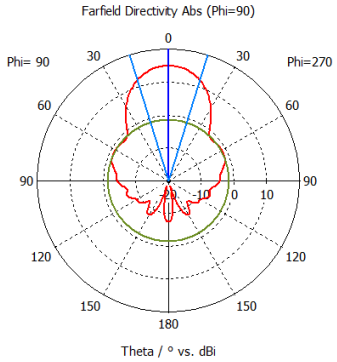
H-Plane



farfield (f=21.7) [1]

Frequency = 21.7 GHz
Main lobe magnitude = 14.9 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 31.1 deg.
Side lobe level = -22.4 dB

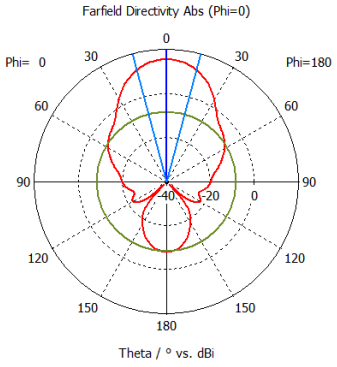
E-Plane



farfield (f=21.7) [1]

Frequency = 21.7 GHz
Main lobe magnitude = 14.9 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 34.9 deg.
Side lobe level = -16.2 dB

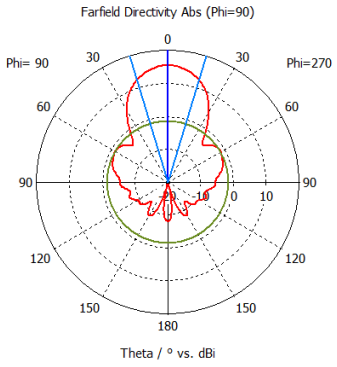
H-Plane



farfield (f=22.7346) [1]

Frequency = 22.7346 GHz
Main lobe magnitude = 15.4 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 29.6 deg.
Side lobe level = -23.7 dB

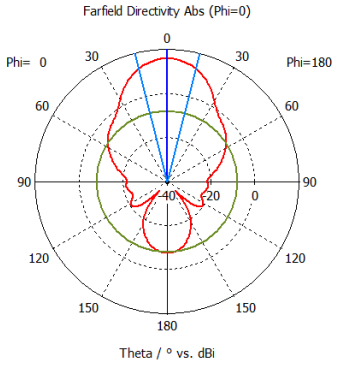
E-Plane



farfield (f=22.7346) [1]

Frequency = 22.7346 GHz
Main lobe magnitude = 15.4 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 33.5 deg.
Side lobe level = -16.8 dB

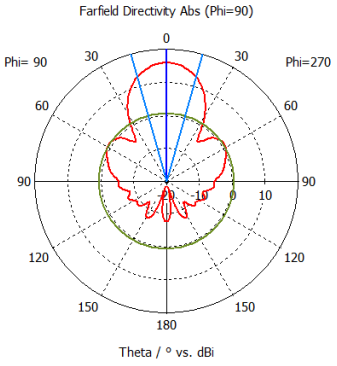
H-Plane



farfield (f=23.8186) [1]

Frequency = 23.8186 GHz
Main lobe magnitude = 15.9 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 28.2 deg.
Side lobe level = -23.6 dB

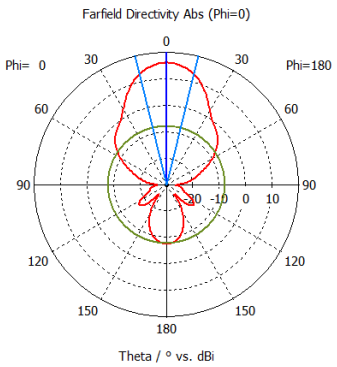
E-Plane



farfield (f=23.8186) [1]

Frequency = 23.8186 GHz
Main lobe magnitude = 15.9 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 31.2 deg.
Side lobe level = -15.1 dB

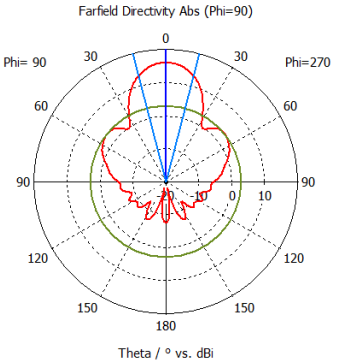
H-Plane



farfield (f=24.9542) [1]

Frequency = 24.9542 GHz
Main lobe magnitude = 16 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 27.3 deg.
Side lobe level = -23.7 dB

E-Plane

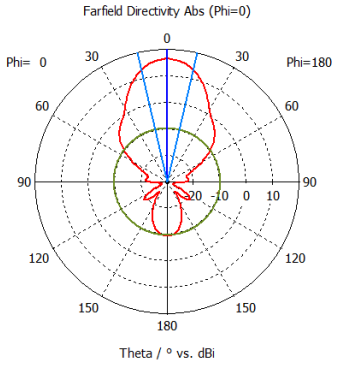


farfield (f=24.9542) [1]

Frequency = 24.9542 GHz
Main lobe magnitude = 16 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 29.2 deg.
Side lobe level = -13.0 dB

Simulated Antenna Patterns

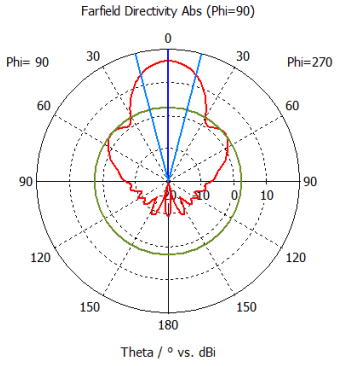
H-Plane



farfield (f=26.144) [1]

Frequency = 26.144 GHz
Main lobe magnitude = 16.3 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 26.2 deg.
Side lobe level = -25.9 dB

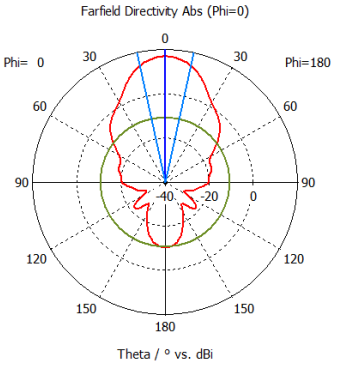
E-Plane



farfield (f=26.144) [1]

Frequency = 26.144 GHz
Main lobe magnitude = 16.3 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 29.1 deg.
Side lobe level = -13.8 dB

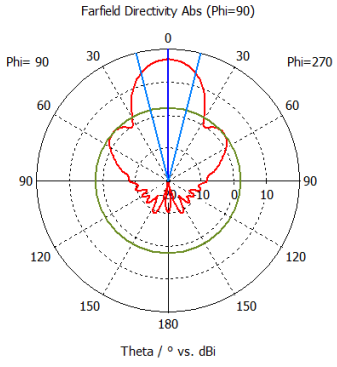
H-Plane



farfield (f=27.3906) [1]

Frequency = 27.3906 GHz
Main lobe magnitude = 16.8 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 24.7 deg.
Side lobe level = -27.4 dB

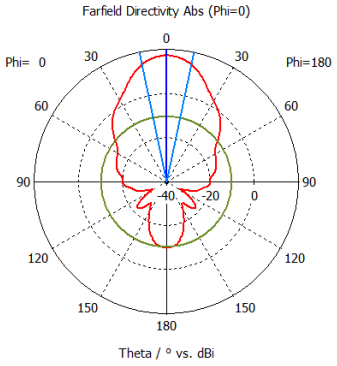
E-Plane



farfield (f=27.3906) [1]

Frequency = 27.3906 GHz
Main lobe magnitude = 16.8 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 28.1 deg.
Side lobe level = -14.6 dB

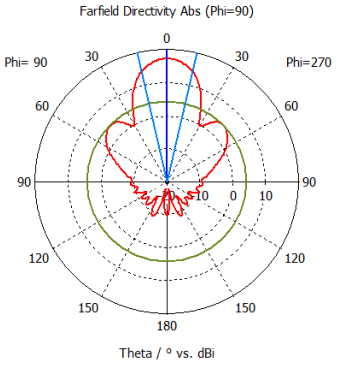
H-Plane



farfield (f=28.6965) [1]

Frequency = 28.6965 GHz
Main lobe magnitude = 17.2 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 23.9 deg.
Side lobe level = -27.2 dB

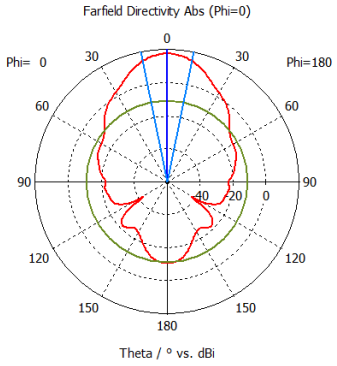
E-Plane



farfield (f=28.6965) [1]

Frequency = 28.6965 GHz
Main lobe magnitude = 17.2 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 25.9 deg.
Side lobe level = -13.0 dB

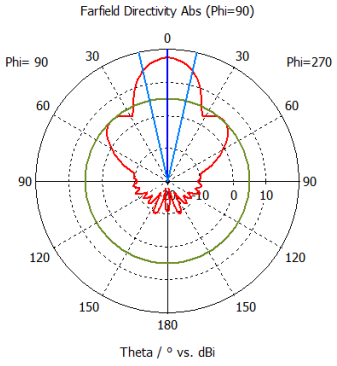
H-Plane



farfield (f=30.0647) [1]

Frequency = 30.0647 GHz
Main lobe magnitude = 17.3 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 23.4 deg.
Side lobe level = -28.2 dB

E-Plane

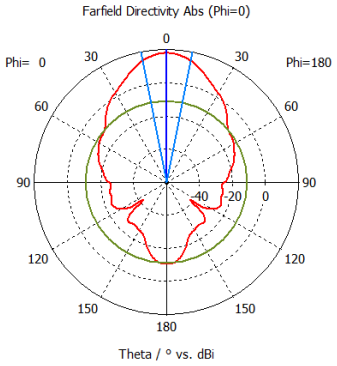


farfield (f=30.0647) [1]

Frequency = 30.0647 GHz
Main lobe magnitude = 17.3 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 25.0 deg.
Side lobe level = -12.2 dB

Simulated Antenna Patterns

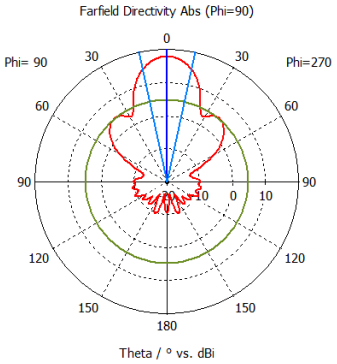
H-Plane



farfield (f=31.4982) [1]

Frequency = 31.4982 GHz
Main lobe magnitude = 17.8 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 22.1 deg.
Side lobe level = -28.6 dB

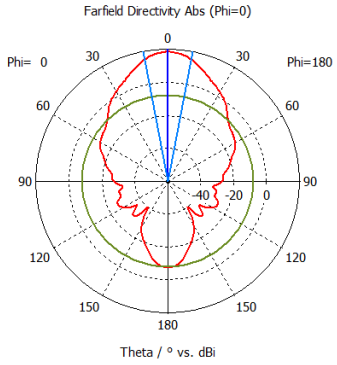
E-Plane



farfield (f=31.4982) [1]

Frequency = 31.4982 GHz
Main lobe magnitude = 17.8 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 24.3 deg.
Side lobe level = -13.0 dB

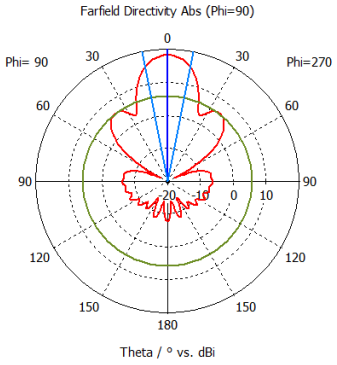
H-Plane



farfield (f=33) [1]

Frequency = 33 GHz
Main lobe magnitude = 18.3 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 21.2 deg.
Side lobe level = -26.2 dB

E-Plane



farfield (f=33) [1]

Frequency = 33 GHz
Main lobe magnitude = 18.3 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 22.4 deg.
Side lobe level = -12.4 dB