

25 dBi Gain, 49.8-75.8 GHz, WR15 Standard Gain Horn with UG385/U

Flange

Rev 1

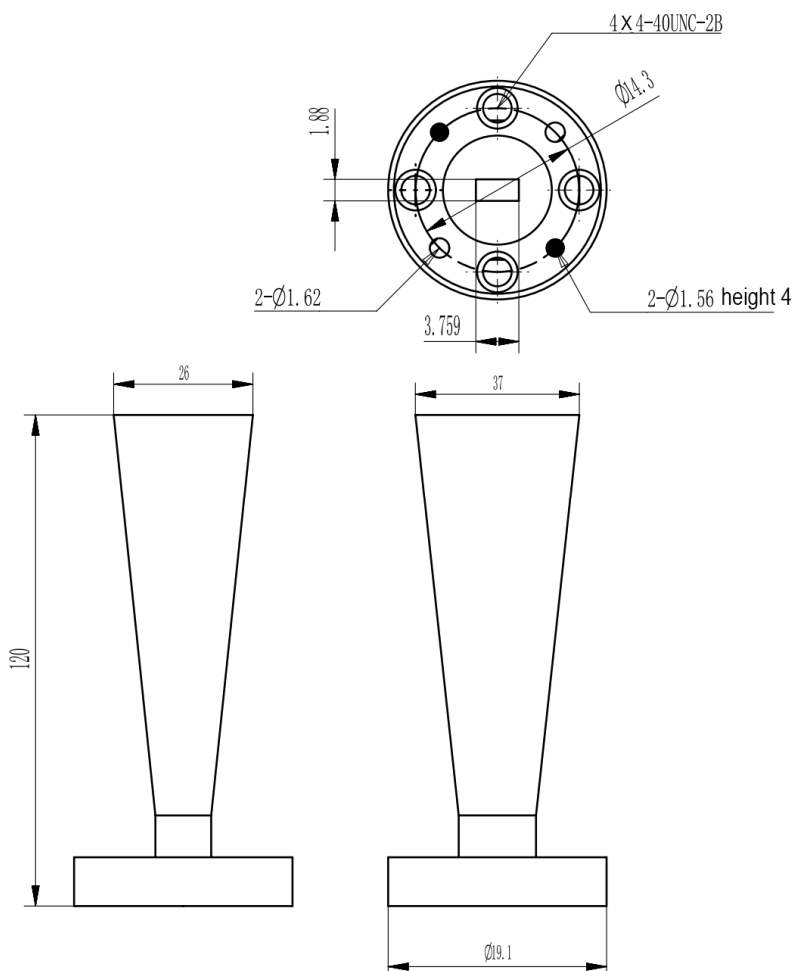
Electrical

Frequency Range	49.8-75.8 GHz
Norminal Gain	25 dBi
Polarization	Linear
VSWR	1.2 max
3dB Beamwidth	E-Plane: 7.6~10.7 deg, H-Plane: 7.3~10.9 deg
Operating Temperature	-40℃~+70℃

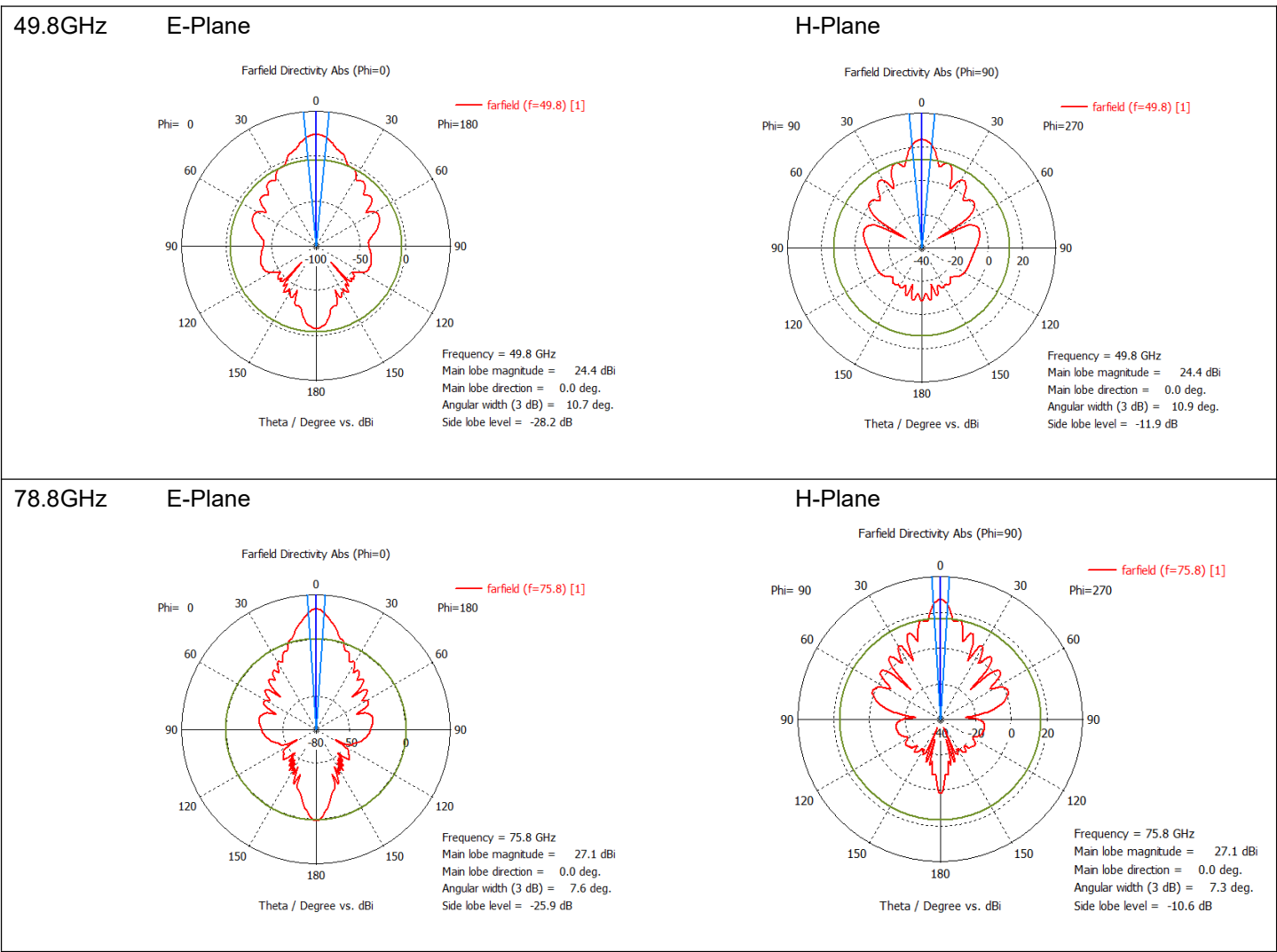
Mechanical

Waveguide Size	WR15
Flange Type	UG385/U Round Cover Flange
Body Material and Finish	Painting over gold plating

Dimensions(mm)



Simulated Antenna Patterns



78.8GHz

E-Plane

Farfield Directivity Abs (Phi=0)

— farfield (f=75.8) [1]

Phi= 0 30 60 90 120 150 180

Theta / Degree vs. dBi

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

Farfield Directivity Abs (Phi=90)

— farfield (f=75.8) [1]

Phi= 90 30 60 90 120 150 180 270

Theta / Degree vs. dBi

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