



15 dBi Gain, 9.84-15 GHz, WR75 Standard Gain Horn with SMA Female Port

Rev 2

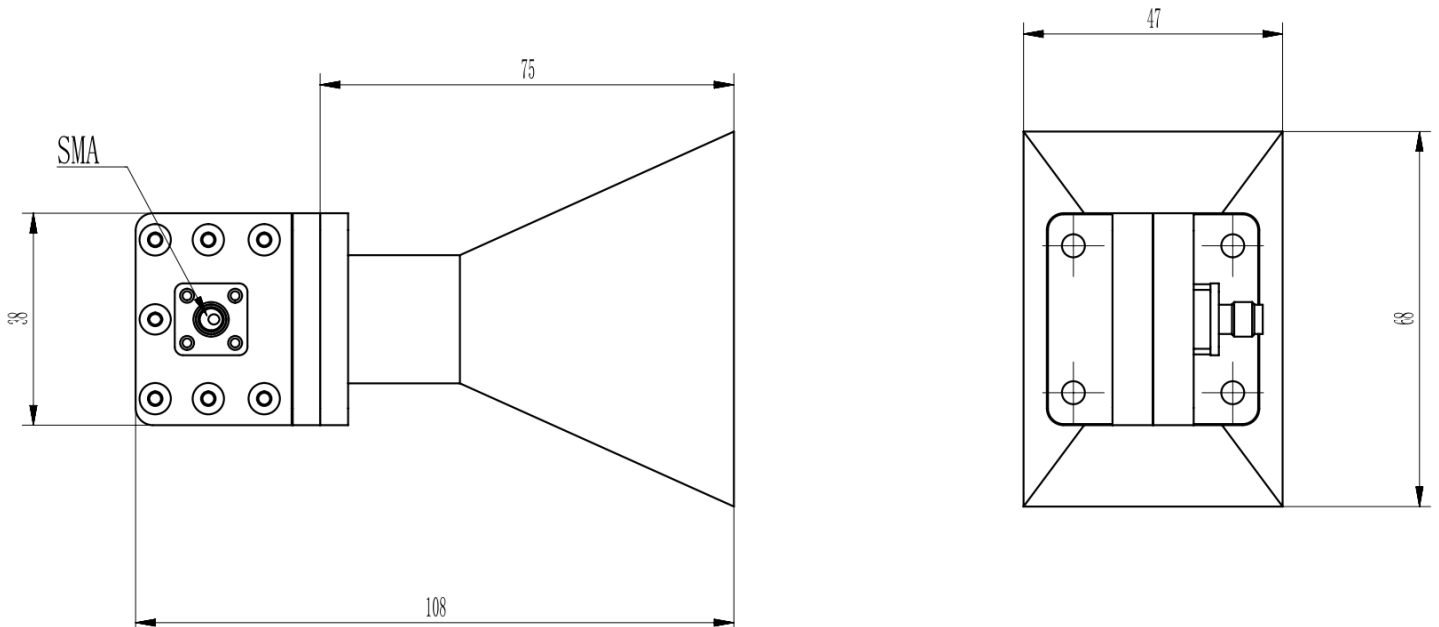
Electrical

Frequency Range	9.84-15 GHz
Norminal Gain	15 dBi
Polarization	Linear
VSWR	1.2 max
3dB Beamwidth	H-Plane: 21.9~31.4 deg, E-Plane: 22.4~30.1 deg
Operating Temperature	-40°C~+70°C

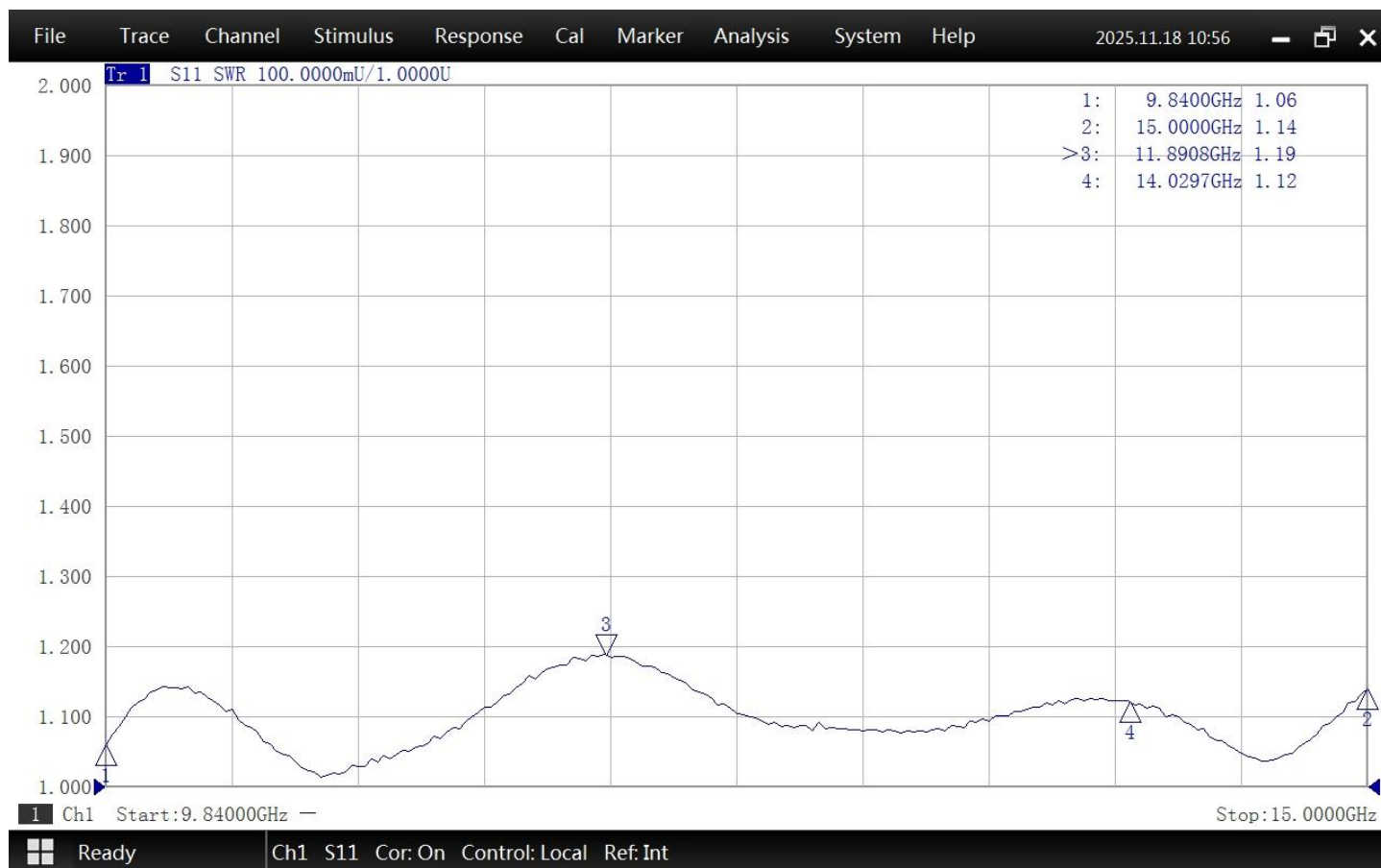
Mechanical

Waveguide Size	WR75
Flange Type	UBR120 Square Cover Flange
Body Material and Finish	Aluminum, Painted
RF Connector	SMA Female
Net Weight	Approx 130g

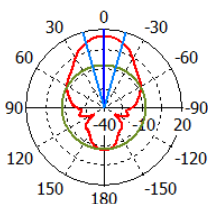
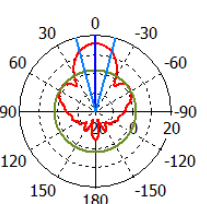
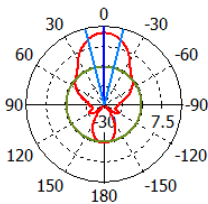
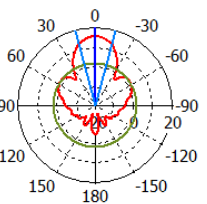
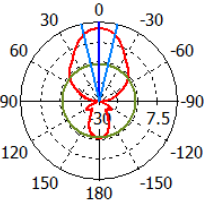
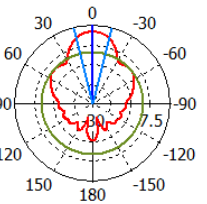
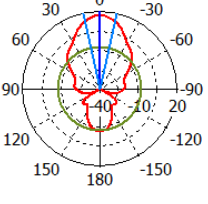
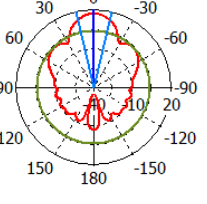
Dimensions(mm)



Typical Test Data

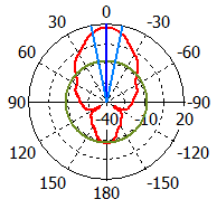


Simulated Antenna Patterns

<p>9.85GHz H-Plane</p> <p>Farfield Gain Abs (Phi=0)</p>  <p>Theta / Degree vs. dB</p> <p>farfield (f=9.85) [1]</p> <p>Frequency = 9.85 Main lobe magnitude = 14.8 dB Main lobe direction = 0.0 deg. Angular width (3 dB) = 31.4 deg. Side lobe level = -21.9 dB</p>	<p>E-Plane</p> <p>Farfield Gain Abs (Phi=90)</p>  <p>Theta / Degree vs. dB</p> <p>farfield (f=11) [1]</p> <p>Frequency = 11 Main lobe magnitude = 15.8 dB Main lobe direction = 0.0 deg. Angular width (3 dB) = 30.1 deg. Side lobe level = -13.9 dB</p>
<p>11GHz H-Plane</p> <p>Farfield Gain Abs (Phi=0)</p>  <p>Theta / Degree vs. dB</p> <p>farfield (f=11) [1]</p> <p>Frequency = 11 Main lobe magnitude = 15.8 dB Main lobe direction = 0.0 deg. Angular width (3 dB) = 28.8 deg. Side lobe level = -21.0 dB</p>	<p>E-Plane</p> <p>Farfield Gain Abs (Phi=90)</p>  <p>Theta / Degree vs. dB</p> <p>farfield (f=11) [1]</p> <p>Frequency = 11 Main lobe magnitude = 15.8 dB Main lobe direction = 0.0 deg. Angular width (3 dB) = 30.1 deg. Side lobe level = -13.9 dB</p>
<p>12GHz H-Plane</p> <p>Farfield Gain Abs (Phi=0)</p>  <p>Theta / Degree vs. dB</p> <p>farfield (f=12) [1]</p> <p>Frequency = 12 Main lobe magnitude = 16.2 dB Main lobe direction = 0.0 deg. Angular width (3 dB) = 26.8 deg. Side lobe level = -22.6 dB</p>	<p>E-Plane</p> <p>Farfield Gain Abs (Phi=90)</p>  <p>Theta / Degree vs. dB</p> <p>farfield (f=12) [1]</p> <p>Frequency = 12 Main lobe magnitude = 16.2 dB Main lobe direction = 0.0 deg. Angular width (3 dB) = 28.6 deg. Side lobe level = -13.3 dB</p>
<p>13GHz H-Plane</p> <p>Farfield Gain Abs (Phi=0)</p>  <p>Theta / Degree vs. dB</p> <p>farfield (f=13) [1]</p> <p>Frequency = 13 Main lobe magnitude = 17.0 dB Main lobe direction = 0.0 deg. Angular width (3 dB) = 24.9 deg. Side lobe level = -24.1 dB</p>	<p>E-Plane</p> <p>Farfield Gain Abs (Phi=90)</p>  <p>Theta / Degree vs. dB</p> <p>farfield (f=13) [1]</p> <p>Frequency = 13 Main lobe magnitude = 17.0 dB Main lobe direction = 0.0 deg. Angular width (3 dB) = 26.1 deg. Side lobe level = -13.3 dB</p>

14GHz H-Plane

Farfield Gain Abs (Phi=0)



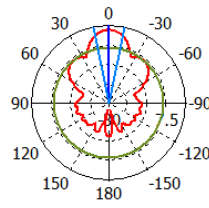
Theta / Degree vs. dB

farfield (f=14) [1]

Frequency = 14
 Main lobe magnitude = 17.3 dB
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 23.4 deg.
 Side lobe level = -25.5 dB

E-Plane

Farfield Gain Abs (Phi=90)



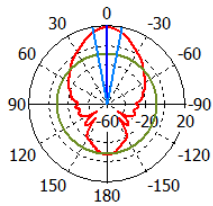
Theta / Degree vs. dB

farfield (f=14) [1]

Frequency = 14
 Main lobe magnitude = 17.3 dB
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 24.0 deg.
 Side lobe level = -11.5 dB

15GHz H-Plane

Farfield Gain Abs (Phi=0)



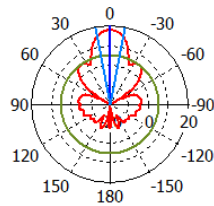
Theta / Degree vs. dB

farfield (f=15) [1]

Frequency = 15
 Main lobe magnitude = 18.1 dB
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 21.9 deg.
 Side lobe level = -26.3 dB

E-Plane

Farfield Gain Abs (Phi=90)



Theta / Degree vs. dB

farfield (f=15) [1]

Frequency = 15
 Main lobe magnitude = 18.1 dB
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 22.4 deg.
 Side lobe level = -13.0 dB