



OBH-1080
Broadband Horn Antenna

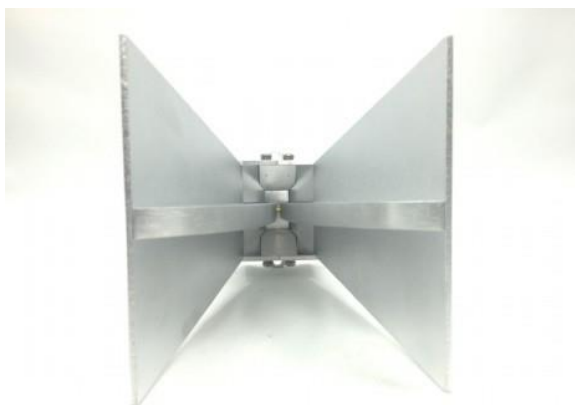
Broadband Horn Antenna

OBH-1080

1GHz-8GHz Double Ridge

Key Facts

1 GHz to 8 GHz broadband directional antenna, ideal for use in EMC measurements



- The Double-Ridged Waveguide broadband Horn Antenna OBH0880 with linear polarization is a compact broadband transmitting and receiving antenna for the frequency range of 1GHz to 8 GHz.
- Due to specific calibration, EMI measurements are the antenna's main field of application.
- High gain and a low VSWR allow the generation of high field-strength levels without any significant return loss as well as the measurement of weak signals.

Features & Benefits

- Wide frequency range from 1GHz-8GHz
- High and flat gain
- Single main lobe radiation pattern over whole frequency range (optimized even distribution of electromagnetic energy on target surfaces for EMS applications and effective evaluation of emissions for EMI measurements)
- Compact dimensions
- High efficiency
- Ideal for use in EMC laboratories



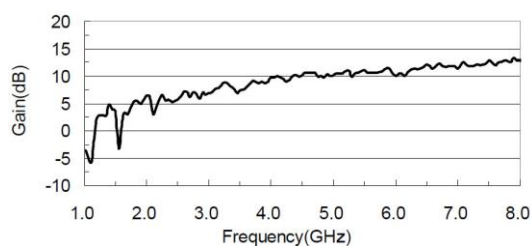
OBH-1080 Broadband Horn Antenna

Specifications

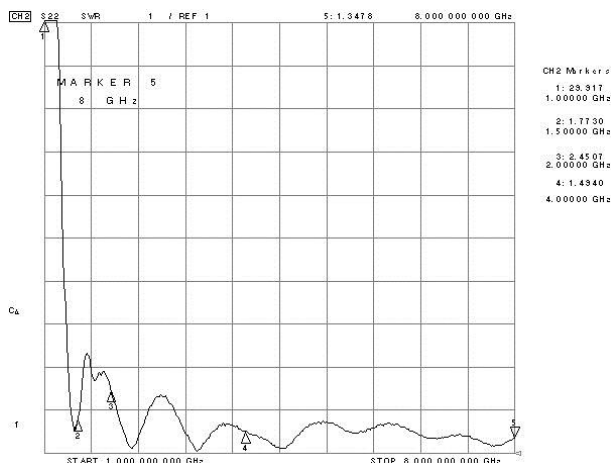
Broadband Horn Antenna OBH1080 Double Ridged

Model	OBH1080	
Frequency Range(GHz)	1.0-8.0	
Gain(dB)	1.8-13 Typ.	
Polarization	Linear	
VSWR	2.5:1 Typ.	
CONNECTORS	N-F or SMA-F	
Power Handling(W)	N-F	150 Max. CW
	SMA-F	50 Max. CW
Size(mm)	85x80x140	
Net Weight(Kg)	0.5 Around	

Broadband horn Gain



VSWR

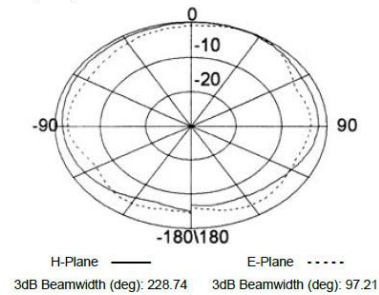




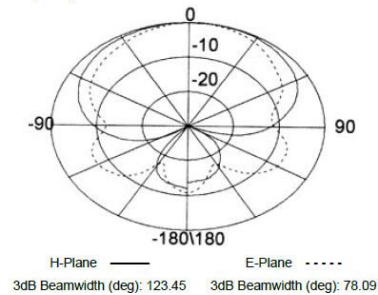
OBH-1080 Broadband Horn Antenna

Broadband horn Patterns

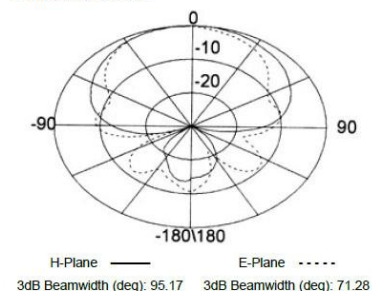
Frequency: 1GHz



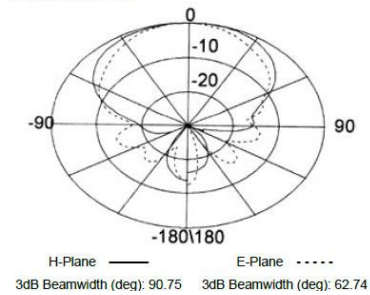
Frequency: 2GHz



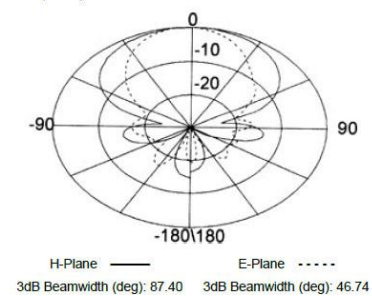
Frequency: 2.5GHz



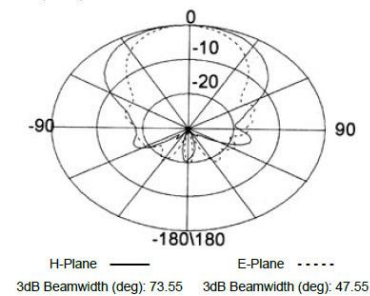
Frequency: 3GHz



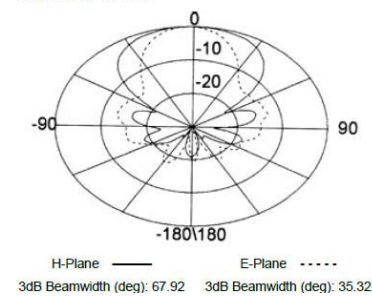
Frequency: 3.5GHz



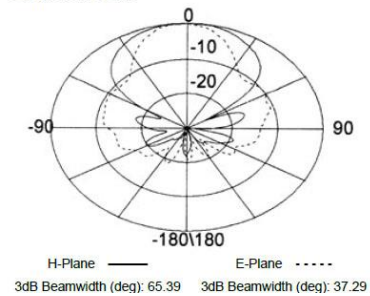
Frequency: 4GHz



Frequency: 4.5GHz



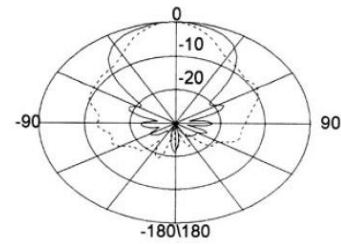
Frequency: 5GHz





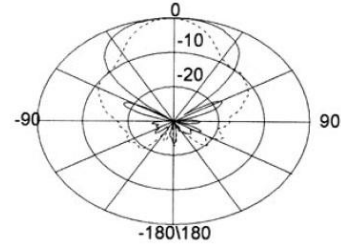
OBH-1080 Broadband Horn Antenna

Frequency: 5.5GHz



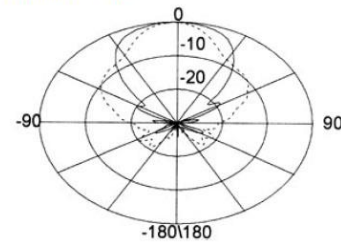
H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 57.35 3dB Beamwidth (deg): 35.49

Frequency: 6GHz



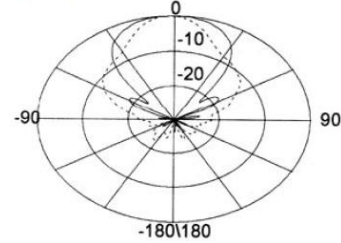
H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 60.89 3dB Beamwidth (deg): 33.38

Frequency: 6.5GHz



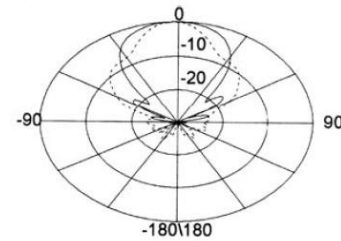
H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 52.34 3dB Beamwidth (deg): 32.30

Frequency: 7GHz



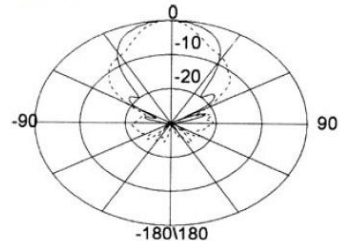
H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 52.38 3dB Beamwidth (deg): 30.68

Frequency: 7.5GHz



H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 47.65 3dB Beamwidth (deg): 28.07

Frequency: 8GHz



H-Plane ——— E-Plane - - - - -
3dB Beamwidth (deg): 43.89 3dB Beamwidth (deg): 27.49