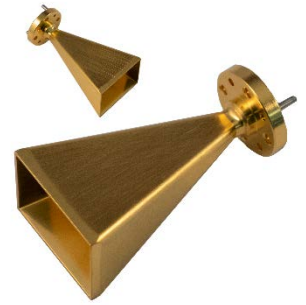


Rectangular Horns

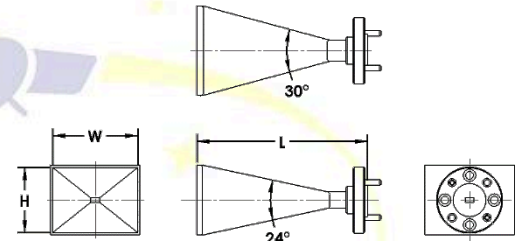
Summary:

Rectangular Horns are one of our most popular antennas. Each horn is precisely electroformed over a mandrel and gold plated. These horns have maximal return loss and gain ranging from 22 to 24 dB. Horns with different gain values can be special ordered. Rectangular Horns are available in sizes WR3 to WR42.



Ordering Example:

HO28S is a rectangular horn in WR28 with a Square flange.



Part Name	RF Specifications			Mechanical Specifications					
	WR	Frequency (GHz)	Max VSWR	WG A DIM (in)	WG B DIM (in)	Height - H (in)	Length - L (in)	Width - W (in)	Flange
HO42S	42	18 - 26.5	1.1:1	0.4200	0.1700	3.064	7.480	4.068	S 0.875
HO28S	28	26.5 - 40	1.1:1	0.2800	0.1400	2.069	5.000	2.712	S 0.750
HO22R	22	33 - 50	1.1:1	0.2240	0.1120	1.656	4.070	2.170	R 1.125
HO19R	19	40 - 60	1.1:1	0.1880	0.0940	1.390	3.480	1.821	R 1.125
HO15R	15	50 - 75	1.1:1	0.1480	0.0740	1.094	2.780	1.434	R 0.750
HO12R	12	60 - 90	1.1:1	0.1220	0.0610	0.902	2.350	1.182	R 0.750
HO10R	10	75 - 110	1.1:1	0.1000	0.0500	0.740	1.940	0.969	R 0.750
HO8R	8	90 - 140	1.1:1	0.0800	0.0400	0.591	1.560	0.775	R 0.750
HO6R	6	110 - 175	1.1:1	0.0650	0.0325	0.481	1.260	0.630	R 0.750
HO5R	5	140 - 220	1.1:1	0.0510	0.0255	0.377	1.040	0.494	R 0.750
HO4R	4	170 - 260	1.1:1	0.0430	0.0215	0.318	0.860	0.417	R 0.750
HO3R	3	220 - 325	1.1:1	0.0340	0.0170	0.251	0.710	0.329	R 0.750

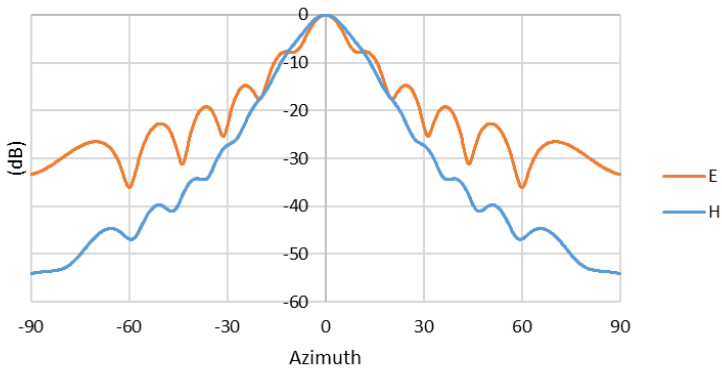
Custom Microwave Inc

custommicrowave.com

24 Boston Ct – Longmont, Colorado

303-651-0707

Typical Rectangular Horn Pattern



Typical Rectangular Horn Gain Over Frequency

