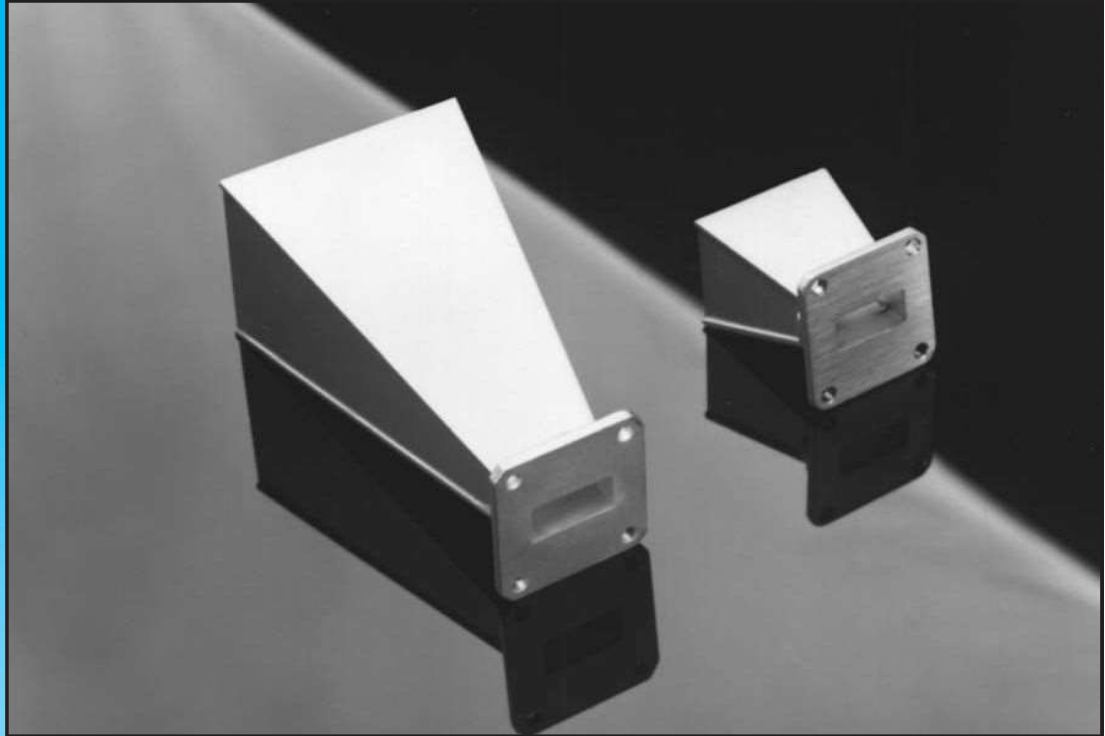


STANDARD GAIN HORNS



Standard Gain Horns are available with mid-band gains of 10, 15, or 20 dB. The beam width of these horns is approximately 50 degrees for 10 dB, 32 degrees for 15 dB and 15 degrees for 20 dB. Typical VSWR is 1.5:1 Max.

Horns are available in Brass, Silver Plated per QQ-S-365D Class A or Aluminum Chem-filmed per MIL-C-5541E. Horns are finished with PENN ENGINEERING'S Polyurethane Blue Paint.

Gains and beam widths other than those listed are available upon request.

PENN ENGINEERING COMPONENTS

12750 RAYMER ST.
N. HOLLYWOOD
CALIFORNIA 91605

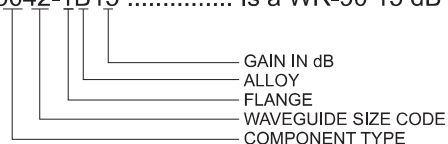
(818) 503-1511

FAX (818) 764-0195

www.pennengineering.com

ORDERING INFORMATION - TO ORDER, USE THE FOLLOWING EXAMPLE:

MODEL 9042-1B15 Is a WR-90 15 dB Horn with a cover flange in brass



ALLOY: A=ALUMINUM B=BRASS C=COPPER S=SILVER SS=STAINLESS STEEL
FLANGE: 1=COVER 2=CHOKE 3=CMR 4=CPRG 5=CPRF

(See last page for complete list of flanges and materials)

STANDARD GAIN HORNS

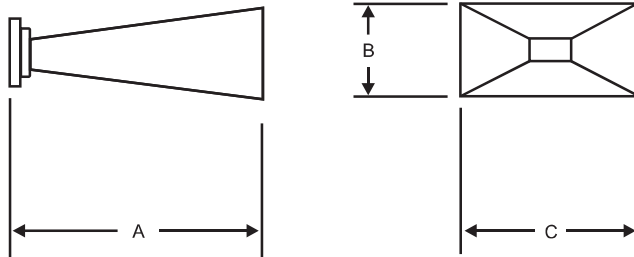
**PENN
ENGINEERING
COMPONENTS**

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Model No.	WR Size	Frequency (GHz)	10 dB Gain			15 dB Gain			20 dB Gain		
			A	B	C	A	B	C	A	B	C
9060	WR 430	1.70-2.60	10.5	4	8	23.72	9.4	12.8	on	request	
9058	WR 340		on	request							
9056	WR 284	2.60-3.95	7.5	3.46	4.72	15.34	5.83	7.96	29.75	10.67	15.57
9054	WR 229		on	request							
9052	WR 187	3.95-5.85	5.4	2.12	2.89	9.4	3.57	4.88	15.05	6.53	8.92
9050	WR 159		on	request							
9048	WR 137	5.85-8.20	3.15	1.48	2.02	6.51	2.5	3.42	12.19	4.57	6.26
9046	WR 112	7.05-10.0	2.55	1.18	1.63	5.21	1.99	2.75	10.78	3.64	4.97
9044	WR 102		on	request							
9042	WR 90	8.20-12.4	2.01	1.15	1.58	5.46	1.95	2.66	10.06	3.62	4.87
9040	WR 75	10.0-15.0	1.94	0.92	1.26	4.69	1.33	2.25	8	2.98	3.88
9038	WR 62	12.4-18.0	1.61	0.68	0.93	3.31	1.15	1.57	5.75	2.11	2.88
9036	WR 51		on	request							
9034	WR 42	18.0-26.5	1.25	0.44	0.6	2.37	0.75	1.02	4	1.36	1.86
9032	WR 34		on	request							
9030	WR 28	26.5-40.0	1	0.33	0.45	1.87	0.55	0.76	3.12	1.01	1.38

dimensions are in inches

Typical Radiation Patterns

