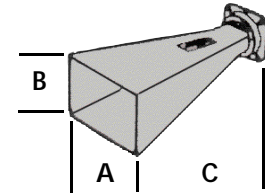


Lightweight
Corrosion Protection
Low VSWR
Other gains, brackets, coax (SMA, N) connectors available

STANDARD GAIN HORN



WG Size (WR)	Freq (GHz)	Model No. (10dB Gain)	Model No. (15dB Gain)	Model No. (20dB Gain)	10dB Gain			15dB Gain			20dB Gain		
					C	B	A	C	B	A	C	B	A
WR 650	1.12 - 1.70	650-440-2	650-441-2	N/A	15.98	6.07	12.14	21.77	16.24	21.93	N/A	N/A	N/A
WR 430	1.70 - 2.60	430-440-2	430-441-2	430-442-2	10.5	4.00	8.00	14.50	10.75	14.50	40.5	16.0	22.0
WR 340	2.20 - 3.30	340-440-2	340-441-2	340-442-2	9.0	3.43	5.71	15.63	6.69	9.45	35.00	11.81	18.79
WR 284	2.60 - 3.95	284-440-6	284-441-6	284-442-6	7.50	3.46	4.33	15.34	5.83	7.96	29.75	10.67	15.57
WR 229	3.30 - 4.90	229-440-2	229-441-2	229-442-2	6.45	2.36	3.62	10.40	4.41	6.00	23.50	8.60	12.25
WR 187	3.95 - 5.85	187-440-6	187-441-6	187-442-6	5.50	2.12	2.89	9.40	3.57	4.88	13.136	6.30	8.51
WR 159	4.09 - 7.05	159-440-2	159-441-2	159-442-2	4.28	1.58	2.68	8.00	3.15	4.33	11.73	7.64	9.80
WR 137	5.85 - 8.20	137-440-2	137-441-2	137-442-2	3.15	1.48	2.02	6.51	2.50	3.42	12.19	4.57	6.26
WR 112	7.05 - 10.0	112-440-6	112-441-6	112-442-6	2.55	1.18	1.63	6.65	2.15	2.93	10.78	3.64	4.97
WR 102	7.00 - 11.0	102-440-6	102-441-6	102-442-6	3.00	1.14	1.58	6.00	2.23	3.04	11.13	3.94	5.57
WR 90	8.20 - 12.4	90-440-6	90-441-6	90-442-6	2.01	1.15	1.58	5.46	1.95	2.66	10.06	3.62	4.87
WR 75	10.0 - 15.0	75-440-6	75-441-6	75-442-6	1.94	0.92	1.26	4.69	1.33	2.25	8.00	2.98	3.88
WR 62	12.4 - 18.0	62-440-6	62-441-6	62-442-6	1.61	0.68	0.93	3.46	1.72	2.19	5.75	2.11	2.88
WR 51	15.0 - 22.0	51-440-6	51-441-6	51-442-6	1.43	0.56	0.77	2.84	1.00	1.36	4.88	1.93	2.51
WR 42	18.0 - 26.5	42-440-6	42-441-6	42-442-6	1.25	0.44	0.60	2.37	0.85	1.14	4.00	1.56	2.13
WR 34	22.0 - 33.0	34-440-6	34-441-6	34-442-6	1.13	0.39	0.53	2.12	0.70	0.95	3.56	1.29	1.76
WR 28	26.5 - 40.0	28-440-6	28-441-6	28-442-6	1.00	0.315	0.42	1.87	0.55	0.76	3.12	1.01	1.38



WAVEGUIDE TO COAX ADAPTERS

Full Waveguide Frequency Range
VSWR over Frequency Range 1.25 max.

Rectangular Waveguide

* K connectors & Square Flange
Flange Code: 2=CPRF; 6=Cover

Example: 137-252-1
Other Flange Types Available

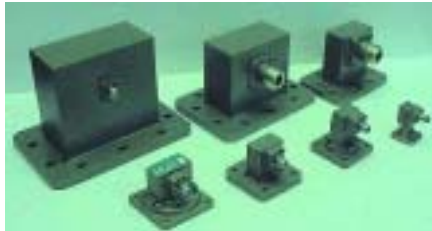


Right Angle

End Launch

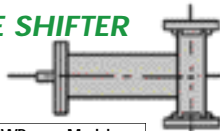


Waveguide Size	Freq (GHz)	Model No. (SMA)	Model No. (Type N)	Model No. (SMA)	Model No. (Type N)
WR 650	1.12 - 1.70	650-251-2	650-253-2	N/A	N/A
WR 430	1.70 - 2.60	430-251-2	430-253-2	N/A	N/A
WR 284	2.60 - 3.95	284-251-6	284-253-6	284-201-2	284-203-2
WR 229	3.30 - 4.90	229-251-2	229-253-2	229-201-2	229-203-2
WR 187	3.95 - 5.85	187-251-6	187-253-6	187-201-2	187-203-2
WR 159	4.90 - 7.05	159-251-2	159-253-2	159-201-2	159-203-2
WR 137	5.80 - 8.20	137-251-2	137-253-2	137-201-2	137-203-2
WR 112	7.05 - 10.0	112-251-6	112-253-6	112-201-2	112-203-2
WR 90	8.20 - 12.4	90-251-6	90-253-6	90-201-2	90-203-2
WR 75	10.0 - 15.0	75-251-6	75-253-6	75-201-2	75-203-2
WR 62	12.4 - 18.0	62-251-6	62-253-6	62-201-2	62-203-2
WR 51	15.0 - 22.0	51-251-6	N/A	N/A	N/A
WR 42	18.0 - 26.5	42-251-6	N/A	N/A	N/A
WR 34	22.0 - 33.0	34-251-6*	N/A	N/A	N/A
WR 28	26.5 - 40.0	28-25K-6*	N/A	N/A	N/A



WAVEGUIDE PHASE SHIFTER

Mechanical phase adjustment
Driver shaft and lock
Motor drive available



WG Size WR	Freq (GHz)	Min. Phase Adjust	VSWR Max	Model No.
159	5.90 - 6.40	360	1.15	159-410-2-2
137	5.90 - 6.40	360	1.15	137-410-2-2
112	7.90 - 6.40	360	1.15	112-410-6-6
75	14.0 - 14.5	360	1.15	75-410-2-2
62	14.0 - 14.5	360	1.15	62-410-6-6

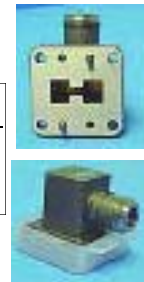
Flange Code: 2=CPRG; 6=Cover; 7=Choke

DOUBLE RIDGE WAVEGUIDE/COAX ADAPTERS

Waveguide Size	Freq (GHz)	Model No. (SMA)	Model No. (Type N)
WRD 750	7.50 - 18.0	750-251-C3	750-253-C3
WRD 650	6.50 - 18.0	650-251-C3	650-253-C3
WRD 580	5.80 - 16.0	580-251-C3	580-253-C3
WRD 475	4.75 - 11.0	475-251-C3	475-253-C3

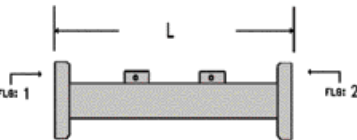
Flange Code: C3=Cover, G3 = Grooved (WRD)
Example: 580-253-G1

Other Flange Types Available



WAVEGUIDE FIXED ATTENUATORS

Description:
ATM offers a series of rectangular waveguide attenuators covering the waveguide sizes WR-28 through WR-650. The assembly construction includes a precision element for optimum electrical performance.



Ordering Information: Typical Part #: 137-600 B -10 -1 -1
Basic Model #: _____
Material: A=Alum, B=Brass
Attenuation: 3dB, 6dB, 10dB, 20dB, 30dB, 40dB
Flange 1: 1=CPRG, 2=CPRF, 6=Cover, 7=Choke, 8=Special
Flange 2: See above

Basic Model No.	WG Size	Freq (GHz)	Length Inches	Power Watt
284-600	WR284	2.60 - 3.95	10	11
229-600	WR229	3.30 - 4.90	9	9
187-600	WR187	3.95 - 5.85	8.5	7
159-600	WR159	4.90 - 7.05	8	5
137-600	WR137	5.95 - 8.20	6	4
112-600	WR112	7.05 - 10.0	5	3
90-600	WR90	8.20 - 12.4	4	2
75-600	WR75	10.0 - 15.0	3.5	1
62-600	WR62	12.4 - 18.0	3	1
51-600	WR51	15.0 - 22.0	3	1
42-600	WR42	18.0 - 26.5	3	1
34-600	WR34	22.0 - 33.0	3	1
28-600	WR28	26.5 - 40.0	3	1

