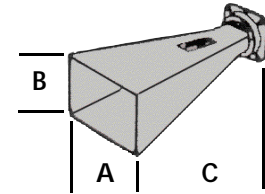


Lightweight  
Corrosion Protection  
Low VSWR  
Other gains, brackets, coax (SMA, N) connectors available

### 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



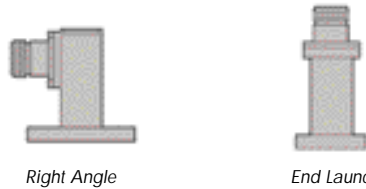
### WAVEGUIDE TO COAX ADAPTERS

Full Waveguide Frequency Range  
VSWR over Frequency Range 1.25 max.

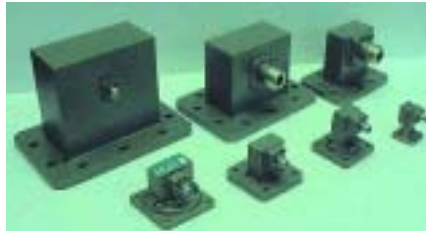
Rectangular Waveguide

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

Example: 137-252-1  
Other Flange Types Available

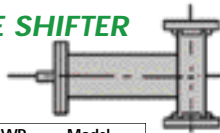


Waveguide Size	Freq (GHz)	Model No. (SMA)	Model No. (Type N)	Model No. (SMA)	Model No. (Type N)
WR 650	1.12 - 1.70	650-251-2	650-253-2	N/A	N/A
WR 430	1.70 - 2.60	430-251-2	430-253-2	N/A	N/A
WR 284	2.60 - 3.95	284-251-6	284-253-6	284-201-2	284-203-2
WR 229	3.30 - 4.90	229-251-2	229-253-2	229-201-2	229-203-2
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

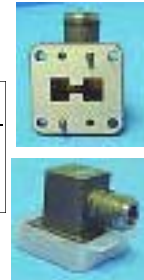
Flange Code: 2=CPRG; 6=Cover; 7=Choke

### 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

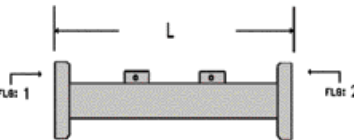
Flange Code: C3=Cover, G3 = Grooved (WRD)  
Example: 580-253-G1

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

