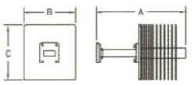
Rectangular W/G Termination, Very High Power - 760/780 Series

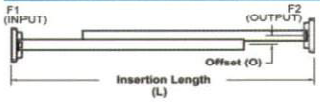


- Full waveguide frequency range.
- Units may be pressure sealed up to 30 psi. upon request. [PT option]
- Low outgassing characteristics.
- VSWR: 1.15 max.
- Terminations are 6061 Aluminum, with Finish: Hi-Temp black
- High Power Ceramic Elements fired at 1300 C for low VSWR and stable electrical characteristics.
- Units are best mounted in the horizontal plane with free air flow. The load temperature will vary depending on power levels and duration. If during use the surface temperature approaches 260°C at the hottest point, (normally where the first fin touches the waveguide body), forced air cooling should be used to prevent damage to the internal load element. Units can survive temperatures as high as 450 °C without damage for a short time.

WG Size	Freq (GHz)	Avg. Power (Watts)	Peak Power (kW)	Standard Model No.*	Dim A. (inches)	Dim.B	DimC
WR650	1.12 - 1.70	8000	5500	650-760-2	30.00	14.00	12.00
WR430	1.70 - 2.60	6500	4000	430-760-2	16.67	9.00	9.00
WR340	2.20 - 3.30	5500	3500	340-760-2			
WR284	2.60 - 3.95	5000	3200	284-760-6	13.75	6.00	6.00
WR229	3.30 - 4.90	4000	2000	229-760-2	13.75	6.00	6.00
WR187	3.95 - 5.85	3000	2000	187-760-6	18.00	6.00	6.00
WR159	4.90 - 7.05	3000	1000	159-760-2	21.50	6.00	6.00
WR137	5.85 - 8.20	3000	710	137-760-2	18.00	6.00	6.00
WR112	7.05 - 10.0	3000	550	112/187-760-6	20.00	6.00	6.00
WR112	7.05 - 10.0	1900	460	112-760-6	8.80	5.00	5.00
WR90	8.20 - 12.4	4500	450	90/187-760-6	24.00	6.00	6.00
WR90	8.20 - 12.4	1100	290	90-760-6	9.81	5.00	5.00
WR75	10.0 - 15.0	3500	270	75/187-760-6	24.83	6.00	6.00
WR75	10.0 - 15.0	1500	250	75/780-1500-6	14.00	5.00	4.48
WR75	10.0 - 15.0	1000	200	75-760-6	7.75	4.50	4.50
WR62	12.4 - 18.0	3000	200	62/187-760-6	24.63	6.00	6.00
WR62	12.4 - 18.0	900	160	62-760-6	7.86	4.50	4.50
WR51	15.0 - 22.0	775	150	51-760-6	7.75	4.50	4.50
WR42	18.0 - 26.5	600	120	42-760-6	5.50	2.25	2.25
WR34	22.0 - 33.0	500	100	34-760-6	6.37	2.25	2.25
WR28	26.5 - 40.0	200	100	28-760-6	6.56	2.25	2.25
WR28	26.5 - 40.0	500	100	28-780-6	7.00	2.50	2.50
WR22	33.0 - 50.0	500	100	22/28-780-6	9.00	2.50	2.50

WG High Power Fixed Precision Attenuators

High-Power precision attenuators covering the waveguide sizes WR28 through WR430 and attenuation values of 10dB, 20dB, 30dB, 40dB and 50dB.

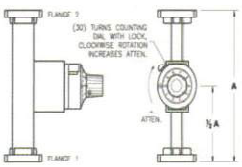


GENERAL SPECIFICATIONS (All Options)

- Electrical
- Std. Attenuation values: 10, 20, 30, 40, 50dB
- Nominal Attenuation accuracy: +/- 0.50dB (+/- 0.75dB for WR42, WR34, WR28)
- Freq. Sensitivity: +/- 0.60 dB
- (+/- 0.75dB for WR42, WR34, WR28)
- Applicable Mil-Specs
- General:
- Product Specific:
- Mechanical
- Size: See Tables
- Body: Aluminum
- Finish: Hi-Temp Black

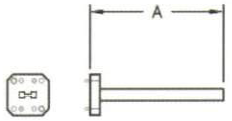
WG Size	Freq (GHz)	VSWR	Power Watt	Standard Model No.*	Dimensions Lengh (L) inches	Offset (O) inches
WR430	1.70 2.60	1.15	1200	430-630HPA-dB-2-2	54.0	2.230
WR340	2.20 - 3.30	1.15	1200	340-630HPA-dB-2-2	42.0	1.780
WR284	2.60 - 3.95	1.15	1200	284-630HPA-dB-6-6	33.0	1.420
WR229	3.30 - 4.90	1.15	1000	229-630HPA-dB-2-2	27.0	1.209
WR187	3.95 - 5.85	1.15	750	187-630HPA-dB-6-6	24.0	0.936
WR159	4.9 - 7.05	1.15	625	159-630HPA-dB-2-2	24.0	0.859
WR137	5.85 - 8.20	1.15	500	137-630HPA-dB-2-2	22.5	0.686
WR112	7.05 - 10.0	1.15	425	112-630HPA-dB-6-6	16.0	0.561
WR90	8.20 - 12.4	1.15	225	90-630HPA-dB-6-6	14.5	0.450
WR75	10.0 - 15.0	1.15	200	75-630HPA-dB-6-6	13.5	0.425
WR62	12.4 - 18.0	1.15	100	62-630HPA-dB-6-6	11.5	0.351
WR51	15.0 - 22.0	1.15	100	51-630HPA-dB-6-6	11.5	0.295
WR42	18.0 - 26.5	1.15	100	42-630HPA-dB-6-6	9.5	0.210
WR34	22.0 - 33.0	1.15	75	34-630HPA-dB-6-6	9.5	0.210
WR28	26.5 - 40.0	1.15	75	28-630HPA-dB-6-6	9.0	0.180

WG Variable Attenuators



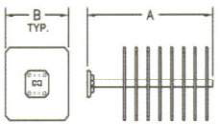
SPECS				LEVEL ADJUST		FLAT WITH FREQUENCY	
WG Size	Freq (GHz)	Avg. Power (Watts)	Length (L) Inches	Standard Model No.*	Flatness +/- dB	Standard Model No.*	Flatness +/- dB
WR284	2.60 - 3.95	11	10	284-620A-30-6-6	N/A	284-AF620A-10-6-6	+/-1.0dB
WR229	3.30 - 4.90	9	9	229-620B-30-2-2	N/A	229-AF620B-10-2-2	+/-1.0dB
WR187	3.95 - 5.85	7	8.5	187-620B-30-6-6	N/A	187-AF620A-10-6-6	+/-1.0dB
WR159	4.9 - 7.05	5	8	159-620B-30-2-2	N/A	159-AF620B-10-2-2	+/-1.0dB
WR137	5.95 - 8.20	4	6	137-620B-30-2-2	N/A	137-AF620B-10-2-2	+/-1.0dB
WR112	7.05 - 10.0	3	5	112-620B-30-6-6	N/A	112-AF620B-10-6-6	+/-1.0dB
WR90	8.20 - 12.4	2	4	90-620A-30-6-6	N/A	90-AF620A-10-6-6	+/-1.0dB
WR75	10.0 - 15.0	1	3	75-620B-30-6-6	N/A	75-AF620B-20-6-6	+/-1.0dB
WR62	12.4 - 18.0	1	3	62-620B-30-6-6	N/A	62-AF620B-15-6-6	+/-1.5dB
WR51	15.0 - 22.0	1	3	51-620A-30-6-6	N/A	51-AF620A-10-6-6	+/-2.0dB
WR42	18.0 26.5	1	3	42-620A-30-6-6	N/A	42-AF620A-10-6-6	+/-3.0dB
WR34	22.0 - 33.0	1	3	34-620A-30-6-6	N/A	34-AF620A-10-6-6	+/-3.0dB
WR28	26.5 - 40.0	1	3	28-620A-30-6-6	N/A	28-AF620A-10-6-6	+/-3.0dB

Double Ridge W/G Termination, Low & Med. Power - 720/740 Series



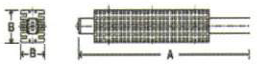
WG Size	Freq (GHz)	Standard Model No.*	Avg. Power (Watts)	Typical VSWR	Dim A. (inches)
WRD350	3.50 8.20	350-720-C3	1	1.05	13
WRD350	3.50-8.20	350-740-C3	300	1.10	13f
WRD475	4.75-11.0	475-720-C3	1	1.05	8.50
WRD475	4.75-11.0	475-740-C3	240	1.10	8.50
WRD580	5.80-16.0	580-720-C3	1	1.05	8.50
WRD580	5.80-16.0	580-740-C3	200	1.10	8.50
WRD650	6.50-18.0	650-720-C3	1	1.05	7.50
WRD650	6.50-18.0	650-740-C3	200	1.10	8.50
WRD750	7.50-18.0	750-720-C3	1	1.05	8.50
WRD750	7.50-18.0	750-740-C3	200	1.10	8.50
WRD180	18.00-40.0	180-720-C3	1	1.15	4.00
WRD180	18.00-40.0	180-740-C3	30	1.15	4.00

Double Ridge W/G Terminations, High Power - 745 Series



WG Size	Freq (GHz)	Standard Model No.*	Avg. Power (Watts)	VSWR	Dim A. (inches)	Dim B.
WRD250	2.5-7.5	250-745-1000-C3	1000	1.15	11.50	4.50
WRD475	4.75-11.0	475-745-C3	1000	1.10	12.00	6.00
WRD580	5.80-16.0	580-745A-C3	1000	1.10	9.50	5.00
WRD580	5.80-16.0	580-745-C3	750	1.10	9.50	5.00
WRD650	6.50-18.0	650-745-C3	700	1.10	10.00	5.00
WRD750	7.50-18.0	750-745-C3	700	1.10	10.00	5.00

Double Ridge W/G Terminations, Very High Power - 760/780 Series



WG Size	Freq (GHz)	Standard Model No.*	Avg. Power (Watts)	VSWR	Dim A. (inches)	Dim B.
WRD250	2.5-7.5	250-780-1800-C3	1800	1.15		
WRD250	2.5-7.5	250-780-2200-C3	2200	1.15	38.50	5.25x6.65
WRD750	7.5-18.0	750-780-1500-C3	1500	1.15	22.00	3.00
WRD580	5.8-16.0	580-780-1500-C3	1500	1.15	22.00	3.00
WRD650	6.5-18.0	650-780-1500-C3	1500	1.15	22.00	3.00
WRD180	18.0-40.0	180-780-150-C3	150	1.15	10.0	2.50

Units are best mounted in the horizontal plane with free air flow. The load temperature will vary depending on power levels and duration.If during use the surface temperature approaches 260°C at the hottest point, (normally where the first fin touches the waveguide body), forced air cooling should be used to prevent damage to the internal load element. Units can survive temperatures as high as 450 °C without damage for a short time.

Flange Code: C=Flat, G=Groove, 1=alternate holes, 2=all tapped holes, 3=all thru holes

Example 580-720-G1, Other Flanges Available.