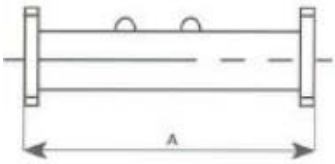
Low Power Fixed Attenuators

Low Power Fixed Attenuators use a resistance card through the broadwall of the precision waveguide. The attenuation value in dB, at the calibration frequency specified below, is indicated by a suffix to the model number. The attenuation flatness, over the full waveguide frequency range, is within 10% of the value of the total attenuation. The VSWR is less than 1.4 for the maximum attenuation show in the table below.

M2554 Low Power Fixed Attenuator

Part No.	WE Type	Maximum Attenuation (dB)	Max VSWR*	Cal. Freq. (GHz)	Power Rating (W)	DIM A (in.)
M2554-1	284	50	1.15	3.3	1.5	16.00
M2554- 2	229	50	1.15	4.1	1.5	15.00
M2554- 3	187	50	1.15	4.9	1.5	13.00
M2554- 4	159	50	1.15	6.0	1.5	12.00
M2554- 5	137	50	1.15	7.0	1.0	10.00
M2554- 6	112	50	1.15	8.5	1.0	8.00
M2554- 7	90	50	1.15	10.3	1.0	6.00
M2554- 8	75	50	1.15	12.5	1.0	5.00
M2554- 9	62	50	1.15	15.2	1.0	4.50
M2554- 10	51	50	1.15	18.5	1.0	4.00
M2554- 11	42	50	1.15	22.5	0.5	3.50
M2554- 12	34	35	1.20	27.5	0.5	3.00
M2554- 13	28	35	1.20	33.2	0.5	3.00
M2554- 14	22	35	1.20	41.5	0.5	3.00



ORDERING INFORMATION

1. Specify base model number and waveguide size from table above.
2. Specify attenuation required; *e.g.* -3 = 3 dB, -20 = 20 dB, -40 = 40 dB.
3. Specify flanges required (see Flange Numeric Codes page 2 of this section).
4. For special request add -S and specify; e.g. calibration frequency, calibration chart…

ORDERING EXAMPLE

Part No.	W/G Size	Attenuation	Flange
M2554	8	30	1 - 1

Part Number – M2554-8-30-1-1

The example describes a WR75 Fixed Attenuator with 30 dB attenuation and CPR G flanges on both ends.

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Medium and High Power Fixed Attenuators

These attenuators are designed using broadwall directional couplers terminated at one end with a medium or high power termination.

Attenuation range is between 6 - 50 dB. The power handling is dependent on the termination used. The frequency range is the full waveguide band and typical flatness is ± 1 dB across the band. The return loss at input is 26 dB minimum. Overall dimensions may vary according to power rating and attenuation required.

M1306 Medium Power Attenuator		
Part No.	**WR Type**	**Power Rating (W)**
M1306- 1	284	1000
M1306- 4	159	400
M1306- 5	137	350
M1306- 6	112	250
M1306- 7	90	200
M1306- 8	75	100

M1307 High Power Attenuator		
Part No.	**WR Type**	**Power Rating (W)**
M1307 – 1	284	3000
M1307 – 4	159	1500
M1307 – 5	137	1200
M1307 – 6	112	750
M1307 – 7	90	600
M1307 – 8	75	400

ORDERING INFORMATION

1. Specify base model number on the basis of power dissipation and waveguide size.
2. Specify attenuation required; e.g. -13 = 13 dB.
3. Specify flanges required (see Flanged Numeric Codes on page 30).

ORDERING EXAMPLE

Part No.	W/G Size	Attenuation	Flange
M1307	8	20	1 - 1

Part Number – M1307-8-20-1-1

Refer page30 for flange code.

The example describes a WR75 High Power Fixed Attenuator with 20 dB attenuation and CPR G flanges on both ends.

FLANGE NUMERIC CODES	
Code	**Flange***
1	CPR-G
2	CPR-F
3	CMR Standard
4	CMR 8 Clear Holes
5	CMR 8 Tapped Holes
6	UG Cover
7	UG Choke
8	Special: specify
9	PDR
10	UDR
**Brass unless otherwise requested*	