



MICROLAB/FXR

Waveguide Loads

WE series

Unfinned Dummy Loads

1.12 - 40 GHz

- ◆ Extremely Rugged High Power Loads
- ◆ High Temperature Refractory Load Elements
- ◆ Economic Convection Design
- ◆ Available with most Common Flanges



Microlab/FXR WE series dummy loads are rugged high power units designed to satisfy minimum cost and weight objectives. Models are designed for bands from 1.12 to 40.0 GHz.

The WE loads employ high temperature refractory load elements designed to meet the requirements of MIL-D-3954A. These load elements are in direct contact with the waveguide walls for optimum heat transfer. They can withstand extremely high temperature, temperature gradients and thermal shocks. For additional cooling fins see the [WF series](#).

These loads can be supplied to operate over the full indicated waveguide frequency band. Generally faster delivery and a more economical unit can be furnished for use over narrower frequency ranges. Always specify your frequency and VSWR requirements.

The table below provides power ratings for each model. The independent average power rating assumes CW operation, and the independent peak power rating assumes negligible average power. The combined average and peak power ratings should be employed together.

Designs to meet special requirements for bandwidth, size, flanges, etc., are available on request. (11/99)

General Specifications

Dissipative	
Material:	Refractory
Test Pressure:	35 psig. max.
Housing Finish:	Black Paint
	Per TT-E-489
Flange Type:	
< 2.6 GHz:	Contact
> 2.6 GHz	Flange Cover
Material:	Aluminum
Flange Finish:	Iridite Per
	MIL-C-5541

Other Waveguide Loads:

Finned Loads:	WF series
Superfined Loads:	WG series
Liquid Cooled Loads:	WL series
Load Inserts:	WD/WZ ser.

Model	Frequency Range	Waveguide Size		Power Ratings				VSWR Max.	Approximate Dimensions Inches/Ounces			
				Independent*		Combined			L in.	W in.	H in.	Wt. lbs.
		RG	WR	W Avg.	kW [†] peak	W Avg.	KW [†] peak					
WE-0005	1.12-1.70	103	650	2250	65,000	1500	20,000	1.15	32.9	6.9	8.7	67.0
WE-0015	1.70-2.60	105	430	1500	30,000	1000	10,000	1.15	21.8	6.0	6.4	21.0
WE-0025	2.60-3.95	75	284	1200	12,500	750	4,000	1.10	14.0	5.3	5.3	7.5
WE-0035	3.95-5.85	95	187	800	5,250	500	1,800	1.10	9.8	3.7	3.7	3.9
WE-0045	5.85-8.20	106	137	500	2,750	300	1,000	1.10	7.9	3.2	3.2	2.3
WE-0050	7.05-10.0	68	112	300	1,750	175	750	1.10	6.3	1.9	2.2	1.0
WE-0055	8.20-8.50	67	90	250	1,250	150	350	1.15	5.7	1.7	1.9	0.8
	8.50-12.4							1.10				
WE-0065	12.4-18.0	349	62	150	650	100	250	1.10	4.1	1.3	1.7	0.4
WE-0075	18.0-26.5	121	42	125	225	75	100	1.15	4.1	1.0	1.3	0.2
WE-0085	26.5-40.0	96 [†]	28	75	125	50	75	1.20	4.2	0.8	1.0	0.2

[†] Aluminum Equivalent

*See text

[†]at pressure of 35 psig

[†]at pressure of 10 psig