



MICROLAB/FXR

WD and WZ series

Waveguide Loads

Dummy Loads and Load Inserts

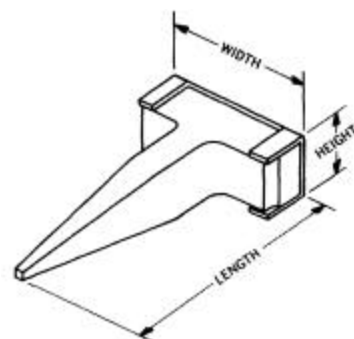
7.50 – 11.50 GHz



WD SERIES



WZ SERIES



- ♦ High Temperature Refractory Load Elements
- ♦ Extremely Rugged Medium Power Loads

Microlab/FXR WD series dummy loads are low cost, miniaturized units with moderate power handling capacity. Models are designed for bands from 7.50 to 11.50 GHz.

The WD loads employ tapered refractory load elements which are capable of withstanding extremely high temperature. These loads are sometimes used as 1 Watt terminations at ambient temperatures as high as 600°F They are designed to provide optimum performance over approximately 12% frequency bands. Cover flanges are supplied.

Microlab/FXR WZ series consists of the tapered refractory load elements of the WD series. They can be cemented by the user into a section of waveguide to meet particular requirements.

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

Designs to handle special requirements for bandwidth, size, flanges, etc., are available on request. (7/98)

General Specifications

VSWR:	1.20:1 max.
Dissipative	
Material:	Refractory
Test Pressure:	45 psig. max.
Housing Finish:	Black Paint Per TT-E-489
Flange Type:	Cover
Material:	Aluminum
Flange Finish:	Iridite Per MIL-C-5541

Other Waveguide Loads:

High power Loads:	WE series
Finned Loads:	WF series
Superfined Loads:	WG series
Liquid Cooled Loads:	WL series

Model	Frequency Range	Waveguide Size		Power Ratings				Approximate Dimensions inches/ounces			
				Independent*		Combined					
		RG	WR	W Avg.	kW pk @ 40 psig	W Avg.	kW pk @ 30 psig	L in.	W in.	H in.	Wt. oz.

WD series Mini Load

WD-0052	7.50-8.50	68	112	150	100	60	60	2.2	1.9	1.9	2.5
WD-0053	8.50-9.60										
WD-0056	8.50-9.60										
WD-0057	9.50-10.60	67	90	100	75	40	40	1.9	1.7	1.7	2.5
WD-0058	10.30-11.50										

WZ series Load Insert

WZ-0052	7.50-8.50	68	112	100		15	15 [†]	2.0	1.122	0.497	0.5
WZ-0053	8.50-9.60										
WZ-0056	8.50-9.60										
WZ-0057	9.50-10.60	67	90	60		10	10 [†]	1.6	0.900	0.400	0.2
WZ-0058	10.30-11.50										

*See text

[†] at 0 psig

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