

- ◆ Extremely Rugged High Power Loads
- ◆ High Temperature Refractory Load Elements
- ◆ Transverse Cooling Fins
- ◆ Available with most Common Flanges



Microlab WF series dummy loads are the commercial equivalent of the standard military DA loads. Models are designed to meet the requirements of MIL-D-3954A in all electrical and mechanical respects for bands from 1.12 to 40.0 GHz.

The WF loads employ transverse cooling fins and 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. The WG series is a similar finned design, but with enhanced heat transfer. For lower powers unfinned models may meet the need, see the WE 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 with any request. Designs to meet special requirements for bandwidth, size, flanges, etc., are available on request. (8/08)

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 |

| Model No. | Frequency Range GHz | Waveguide Size | | JAN Equivalent | Rated Power* | | | Nominal Dimensions Inches (mm) | | | Weight nom. lbs (kg) |
|-----------|----------------------------|----------------|-----|----------------|--------------|------------|------------------|--------------------------------|--------------|---------------|----------------------|
| | | RG | WR | | W avg. | kW pk Test | VSWR max. | L | W | H | |
| WF-0005 | 1.12 - 1.70 | 103 | 650 | DA-147/U | 8000 | 2200 | 1.15:1 | 32.9 (836) | 8.9 (226) | 11.4 (290) | 90 (41) |
| WF-0025 | 2.60 - 3.95 | 75 | 284 | DA-145/U | 4500 | 3200 | 1.10:1 | 14.0 (356) | 4.9 (124) | 6.4 (163) | 11.5 (5.2) |
| WF-0035 | 3.95 - 5.85 | 95 | 187 | DA-149/U | 2000 | 1000 | 1.10:1 | 9.8 (249) | 3.6 (91) | 4.1 (104) | 5.1 (2.3) |
| WF-0045 | 5.85 - 8.20 | 106 | 137 | DA-144/U | 1000 | 710 | 1.10:1 | 8.0 (203) | 3.1 (79) | 3.9 (99) | 3.3 (1.5) |
| WF-0050 | 7.05 - 10.0 | 68 | 112 | DA-148/U | 600 | 460 | 1.10:1 | 6.3 (160) | 2.5 (64) | 3.1 (79) | 1.5 (0.7) |
| WF-0055 | 8.20 - 8.80 8.80 - 12.4 | 67 | 90 | DA-146/U | 500 | 290 | 1.15:1 1.10:1 | 5.7 (145) | 2.8 (71) | 2.8 (71) | 1.3 (0.6) |
| WF-0065 | 12.4 - 18.0 | 349 | 62 | DA-159/U | 250 | 160 | 1.15:1 | 4.3 (109) | 2.4 (61) | 2.4 (61) | 0.75 (0.34) |
| WF-0075 | 18.0 - 26.5 | 121 | 42 | DA-160/U | 150 | 80 | 1.15:1 | 4.2 (107) | 2.2 (56) | 2.2 (56) | 0.37 (0.17) |
| WF-0085 | 26.5 - 40.0 | ‡96 | 28 | DA-158/U | 75 | 100 | 1.20:1 | 4.2 (107) | 2.0 (51) | 2.0 (51) | 0.37 (0.17) |

‡Aluminum Equivalent

*when tested in accordance with MIL-D-3954A