

### Section 3

## RF HARDWARE

Updated 16 February 2011

### Dummy Loads N-Male, 50 Ohm

Frequency  
Up to 3 GHz



The purpose of a Dummy Load (also known as a Termination Load) is to absorb RF energy and convert it into heat. The dummy load takes the place of an antenna during transmitter testing and adjustment.

Other applications where dummy loads are used include hybrid couplers, isolators, circulators, system testing and calibration.

The load must be selected to match the antenna and transmission line impedance; typically 50 Ohms. Also the load needs to be designed to tolerate the amount of power that can be delivered by the transmitter.

This selection of 50 Ohm Dummy Loads with N-Male connector are rated for frequencies up to 3 GHz with 5 watt, 25 watt or 60 watt power input. They use parallel ceramic resistors to dissipate heat while power is applied.



SPECIFICATIONS	8258	8259	8260
<b>Construction Materials</b>	Black passivated aluminium body, gold plated brass centre conductor, nickel plated brass coupling nut, PTFE insulator, parallel aluminium oxide AL2 O3 ceramic resistors for heat dissipation		
<b>Maximum Power</b>	<b>5 Watts</b>	<b>25 Watts</b>	<b>60 Watts</b>
<b>Connector</b>	<b>N-Male</b>	<b>N-Male</b>	<b>N-Male</b>
<b>Frequency Range</b>	<b>Up to 3 GHz</b>	<b>Up to 3 GHz</b>	<b>Up to 3 GHz</b>
<b>VSWR</b>	Less than 1.2:1	Less than 1.2:1	Less than 1.2:1
<b>Impedance</b>	50 Ohms	50 Ohms	50 Ohms
<b>Operating Temperature</b>	-40°C to +80°C	-40°C to +80°C	-40°C to +80°C
<b>Height</b>	45 mm	90 mm	115 mm
<b>Diameter</b>	30 mm	60 mm	60 mm
<b>Weight</b>	55 grams	350 grams	400 grams