

RF Termination Loads

Medium to High Power
SP0000-6xxx-12 Series



RF Terminations are used to properly terminate active RF devices, coaxial cables, unused ports, multi-coupling devices and with test equipment.

RFI has a wide range of coaxial 50 Ohm resistive termination loads in various connector types, power ratings and frequency ranges. The heat-sinks have a high thermal density, and their surface area is cooled using natural convection.

If what you are looking for is not shown below, RFI also has a range of high-quality loads available in other power ratings with other connectors.

If you require advice on termination load selection for your application, please contact RFI.

Features:

- Good selection of medium to high power applications
- Excellent Return Loss / VSWR over full operating DC to 3.8GHz or 3GHz Frequency Range

SP0000-6xxx-12 Range:



Technical Specifications

| Model Number | SP0000-6xxx-12 Series | | | | | |
|--|------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|------------------------------------|----------------------|
| Model Number Derivative - SP0000-6xxx-12 | 2 | 5 | 10 | 25 | 60 | 100 |
| Power Rating $\leq 50^{\circ}\text{C}$, Watts (Derate linearly to 10% @125°C)* | 2W | 5W | 10W | 25W | 60W | 100W |
| Termination | N(m) | | | | | |
| Frequency GHz | DC to 3.8 | DC to 3 | | | | |
| Nominal Impedance Ω | 50 | | | | | |
| VSWR (Return Loss dB) | 1.2:1 (20) | 1.2:1 (20) | 1.2:1 (20) | 1.2:1 (20) | 1.3:1 (17.7) | 1.3:1 (17.7) |
| Finish | Metal Alloy | Painted Black | | | | |
| Dimension approx. L x W x H mm (inch) | 32x20 ϕ (1.25x0.8 ϕ) | 37x26 ϕ (1.5x1.0 ϕ) | 65x35 ϕ (2.6x1.4 ϕ) | 94x54 ϕ (3.7x2.1 ϕ) | 120x64 ϕ (4.7x2.5 ϕ) | 180x70x70 (7x3x3) |
| Weight approx. Kg (ounces) | 0.045 (1.6) | 0.06 (2.1) | 0.12 (4.2) | 0.19 (6.6) | 0.38 (13.4) | 1.3 (45.9) |
| Operational temperature range C / F | -25° to +65° / -13° to 149° | | | | | |
| Compliance | RoHS | | | | | |

*Load rating applies when mounted horizontally with unobstructed convective airflow.

Mechanical Specifications

| Model Number | Description |
|----------------|---|
| SP0000-6002-12 | RF Termination Load - 50 Ohm N (M) 2W DC-3.8GHz |
| SP0000-6005-12 | RF Termination Load - 50 Ohm N (M) 5W DC-3GHz |
| SP0000-6010-12 | RF Termination Load - 50 Ohm N (M) 10W DC-3GHz |
| SP0000-6025-12 | RF Termination Load - 50 Ohm N (M) 25W DC-3GHz |
| SP0000-6060-12 | RF Termination Load - 50 Ohm N (M) 60W DC-3GHz |
| SP0000-6100-12 | RF Termination Load - 50 Ohm N (M) 100W DC-3GHz |