

Microwave High Power Terminations

The best choice for High Performance and Quality

Radiall is renewing its range of High Power Terminations from 30 to 200 Watts, available with Type N, SMA, 7-16 and TNC connections. This comprehensive offer ensures outstanding performance and quality, at a competitive price.



Microwave global range



Conduction model

High Power Terminations from 30 to 200W up to 6 GHz:

- Available with 4 types of connections: Type N, SMA, 7-16 and TNC (male and female interfaces)
- Conduction version is available for applications where cooling fan form factors need to be adapted
- Custom design available upon request

Electrical Performance:

- Frequency range: DC-6 GHz
- VSWR max 1.3 @ 6 GHz
- Peak Power = 2 kW

Features

Competitive Offering

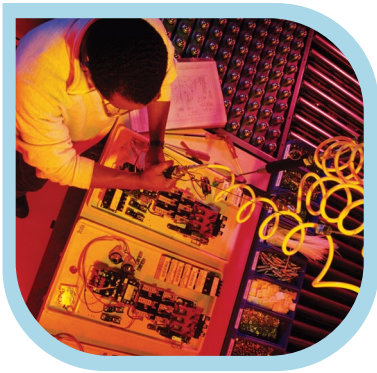
- Excellent performance: frequency, VSWR, and Peak Power
- Reduced size and form factors
- Competitive pricing, delivery, and service

Reliable Solution

- New Radiall terminations use purely mechanical retention, no compound, and no crimp to increase product robustness
- Temperature shrinkage is compensated through a spring loaded contact
- Outstanding electrical performance (see graph page 2)

Safe Range

- RoHS compliant
- Complies with standard MIL39030
- Complies with ISO/IEC 17025
- Fully tested, approved, and certified by an Independent test laboratory



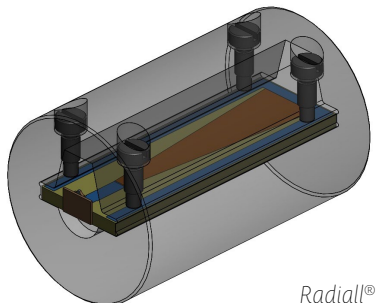
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Electrical Performance

Average Power at 25 °C (W)	30 to 200 W
Operating Frequency (GHz)	DC - 6
V.S.W.R	1, 2 up to 3 GHz 1, 3 up to 6 GHz
Impedance (Ω)	50
DC Resistance (Ω)	50 \pm 5%
Peak Power at 25 °C (1 μ s,1%) (kW)	2
Operating Temperature Range (°C)	-55 / +125
Storage Temperature Range (°C)	-55 / +125

Mechanical Retention of Termination

The design concept for Radiall's new high power terminations utilizes mechanical force to restrain the ceramic resistance against the module. This solution improves the life performance of the termination versus common solutions using compound or crimp. A spring is utilized at the extremity of the module to compensate temperature shrinkage, while at the same time increasing robustness and product lifecycle.



Radiall®
Termination Module

Thermal Conductivity Comparison

Radiall's improved design concept utilizes Aluminum Nitride material in the resistive circuit. By employing this concept Radiall has improved the cooling capabilities of the coaxial termination core. This improved Radiall design concept provides better aging performance and increases the lifetime and robustness of the device. This design concept also enables Radiall to reduce the overall size of the device for applications where form factor is an essential requirement. The reduced footprint, outstanding electrical performance, and competitive pricing make Radiall's new high power terminations a perfect solution for microwave applications.

