

3R-250

250Watt Mountable Non-Inductive, High Frequency Resistors



Motor Controls, High Energy, RF, High Voltage, Inverters, Pulse & Plasma, Non-Inductive Powers

3R-250 Non-Inductive design these elements are ideally suited for high frequency and pulse load applications. By direct mounting on a heatsink significant cost advantages can be realized for power Application from 100w to 600w. 3R-250 can be supplied in a 2-terminal. Main applications are Variable speed Drives, ship, train, RF Termination, Power Supplies, Control Devices, Telecom, Robotics, Motor Controls Dynamic Braking, and other switching designs.

3R-250 Non-Inductive 250Watt Mountable, High Frequency Resistors

- Heat Sink Mountable with M4 Screw
- RF Terminal
- Shunt
- Inverter
- Motor Braking
- Pulse & Plasma



SPECIFICATIONS

Resistance Values : 1R0 to 2Megohm others on request

Resistance Tolerance : $\pm 10\%$ Std. ,1%,2%,5% available on request.

Temperature Coefficient : $\pm 100\text{ppm}/^\circ\text{C}$ typ. (others upon request)

Maximum Working Voltage : 5,000V DC, higher voltage on request, not exceeding max. power

Single Shot Voltage : Up to 12kV at std. wave (1.5/50 μs)

Insulation Resistance : 10G Ω min. at 500V

Creeping Distance : 42mm min.

Inductance : ≤ 50 nH

Capacity/Ground : $\leq 110\text{pF}$

Capacity/Resistive : $\leq 40\text{pF}$

Operation Temperature : -55°C to $+155^\circ\text{C}$

Max. Torque for Contacts : 2 N.m

Max. Torque for Mounting : 1.8 N.m

Power Rating : 250W at 50°C Tap Temperature

Higher power : 600Watt at 5°C Tap Temperature

Dielectric Strength : Up to 12 kV

Termination to Contacts : M5 Screws

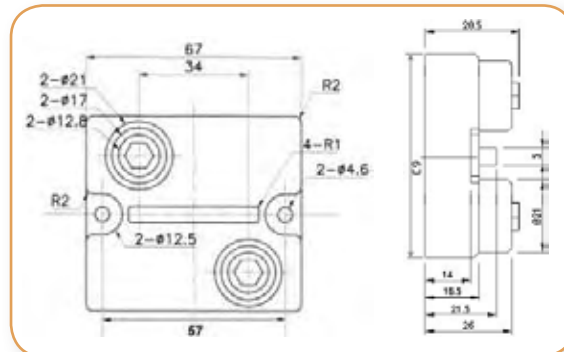
Required thermal transfer compound of-heat conductivity : 1 W/ $^\circ\text{C}$

Required flatness of heat sink : $\leq 0.05\text{mm}$

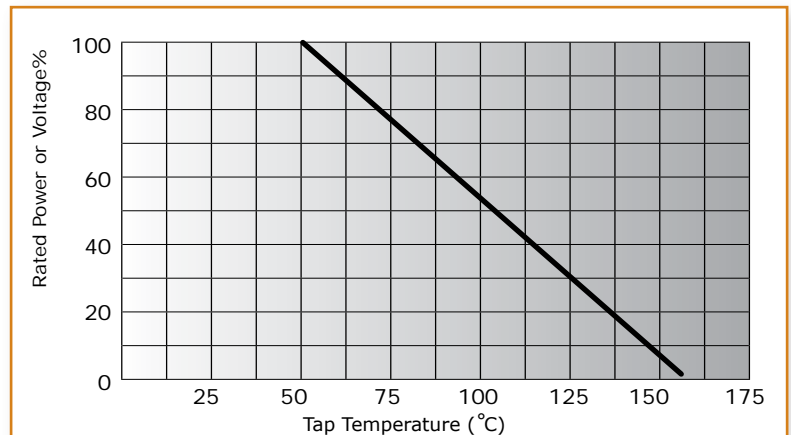
Roughness of the Heatsink surface : $\leq 6.4\mu\text{m}$.

Isolation Voltage(Terminal to Heatsink) : 7k Vrms

DIEMENSION



DERATING CURVE



cf.: The described specifications & dimensions subject to change without notice.