

3R-250

250 Watt Mountable Non-Inductive,
High Voltage High Frequency Resistors



H.V. Energy Semiconductors, Motor Controls, High Energy, RF, High Voltage, Inverters, Pulse & Plasma, Non-Inductive Power

The 3R-250 Non-Inductive design of these elements is ideally suited for high-frequency and pulse load applications. By direct mounting on a heat sink significant, cost advantages can be realized for power Application from 100W to 600W. 3R-250 can be supplied in a 2-terminal.

Main applications: Variable speed Drives, ship, train, RF Termination, Power Supplies, Control De vices, Telecom, Robotics, Motor Controls Dynamic Braking, and other switching designs. Braking, and other switching designs, RF Applications, soft start.

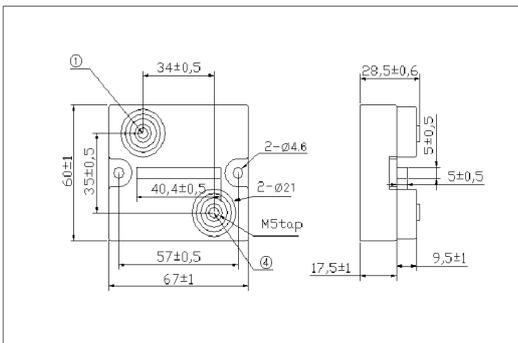


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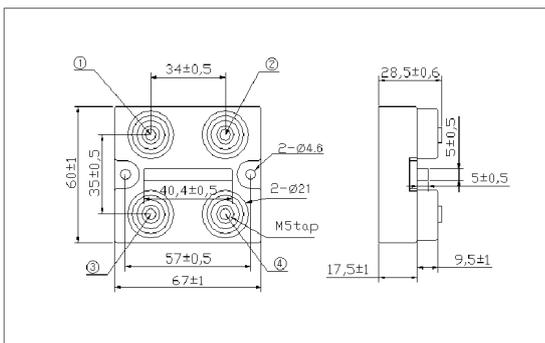
- Heat Sink Mountable with M4 Screw
- RF Terminal
- Shunt
- Inverter
- Motor Braking
- Pulse & Plasma



DIMENSIONS



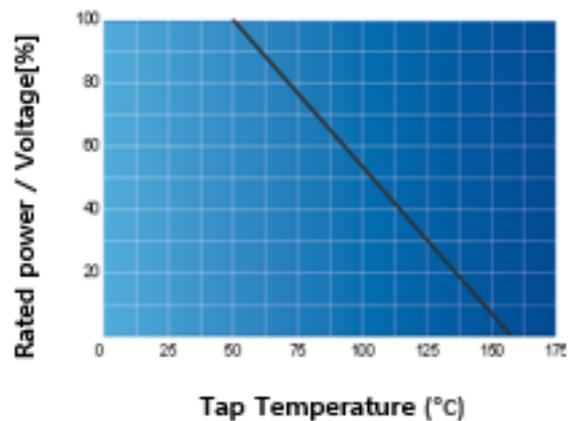
*Versions: 1, 5



*Versions: 2, 3, 4



DERATING CURVE



3R-250

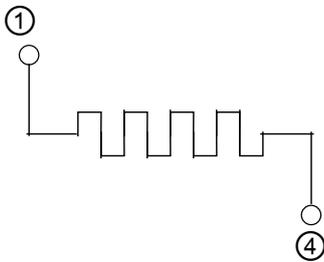
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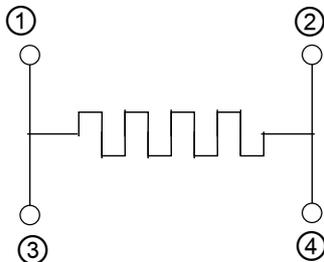
VERSIONS



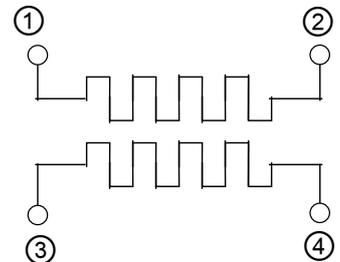
V1



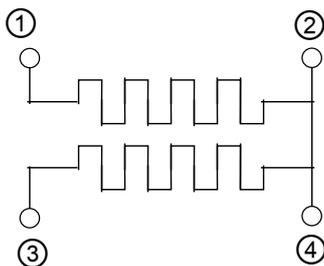
V2



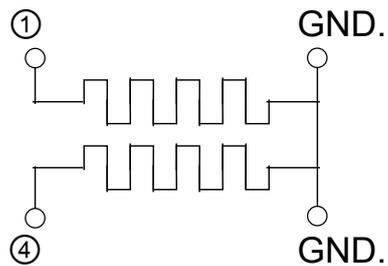
V3



V4



V5



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SPECIFICATIONS

RESISTANCE RANGE	1R to 2Meg (Others on request)
RESISTANCE TOLERANCE	1%,2%,5% available on request
TEMPERATURE COEFFICIENT OF RESISTANCE	$\pm 100\text{ppm}/^\circ\text{C}$ typ. (Others upon request)
MAXIMUM WORKING VOLTAGE	5,000VDC, 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	≤ 110 pF
CAPACITY/RESISTIVE	≤ 40 pF
OPERATION TEMPERATURE	-55 $^\circ\text{C}$ 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 $^\circ\text{C}$ Tap Temperature
HIGHER POWER	600W at 5 $^\circ\text{C}$ 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	≤ 0.05 mm
ROUGHNESS OF THE HEAT SINK SURFACE	≤ 6.4 μm
ISOLATION VOLTAGE(TERMINAL TO HEAT SINK)	7kVrms

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