SMR, SMV





Sense Terminal (2 plcs.)

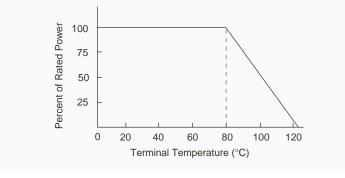
(SMV only)

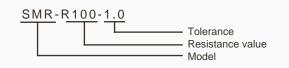


The SMR and SMV resistors are designed for precision current sensing in harsh environments. The molded package make them ideal for use in automotive applications. The SMV is a true Kelvin (four terminal) connection for the highest precision low-Ohmic current sensing.

Both models use etched manganin foil laminated to a copper lead frame which serves as an efficient heat sink. The manganin provides for low tcr and long term stability under load.

The SMR and SMV resistors are packaged in 24mm tape (EIA-481) and are compatible with all surface mount processes.





0. 1.55 1.1512.0 10.0 1.0 2.1 2.0 8.0 **←**3.6≯ 5.4 sense terminal (SMV only) 6.0 5.0Top View sense terminal (SMV only) -3.6→ 5.4 58 9.9 28 S S

9.1

6.4 12.8 Proposed pcb layout for

kelvin (SMV) connection

Dimensions in millimeters

Technical Data

Parameters Resistance Range Tolerance Temperature Coefficient of Resistance (20°C to 60°C) Power Rating (Watts) **Dielectric Withstanding Voltage** Inductance Thermal Resistance (foil/terminals) **Operating Temperature Range** Stability (Nominal Load at 80°C)

SMR 0 Ω , 5 m Ω to 4.7 Ω 0.5%, 1.0%, 5.0% < 50 ppm/°C 3 W 1000 VAC < 10 nH Rth < 15°C/W -55°C to +140°C < 0.5% after 2000 hours

SMR / SMV

SMV 1 m Ω to 1 Ω 0.5%, 1.0%, 5.0% < 30 ppm/°C 3 W 1000 VAC < 10 nH Rth < 15°C/W -55°C to +140°C < 0.5% after 2000 hours