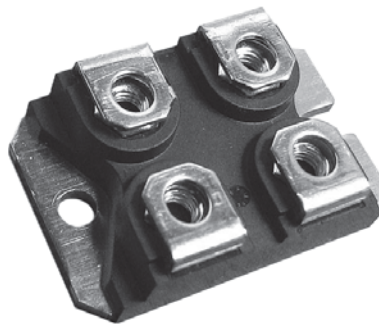


The TGHG Series uses state of the art technology to provide highly reliable, non inductive performance. This resistor is ideal for many current monitoring and controls applications.



TGHG Series

Precision Current Sense Resistors

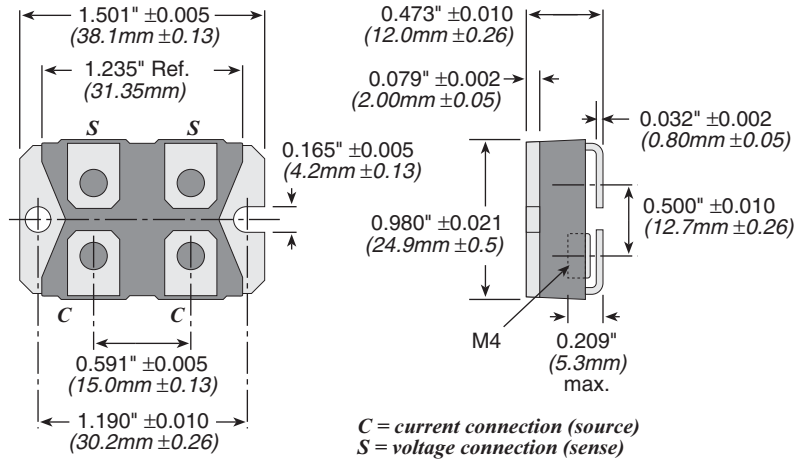


FEATURES

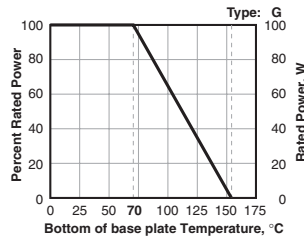
- Resistance values beginning at 0.5mΩ
- Non Inductive
- Four terminal Kelvin connection
- SOT 227 Package
- Four terminals to isolate measurement path from current flow path
- Accuracy in a high power package

SPECIFICATIONS

- Heat Sink:** Nickel-plated copper
Terminal Nuts: American standard 303 stainless steel
Standard Resistance Values: 0.5mΩ-1Ω, others on request
Resistance Tolerances: 1%
Temperature Coefficient: referenced to 25°C, ΔR taken at -15°C and +105°C, <60ppm/°C; <500ppm/°C for resistance range 27mΩ-49mΩ)
Power Rating: 100W at 70°C case temperature; 50Amp permanent (higher on request)
Dielectric strength: 1000VDC, higher value on request
Heat Resistance: R_{th} <0.56K/W
Protection class: acc. to IEC 950/CSA22.2 950/M -89 and EN 60950.88:2
Working Temp. Range: -55°C to +155°C
Max. Torque for Contacts: 1.3Nm 8 (static)
Max Torque for Base Plate: 1.5 Nm (static)
Maximum Cont. Amperage: 200 amps depending on ohmic value; only available in 10%



DERATING



ORDERING INFORMATION

Configuration
C = current sense E = RoHS compliant

T G H G C R 0 2 0 0 F E

TGH = series Wattage G = 100W Resistance Value Example: R0200=0.02 ohms Tolerance F = 1% J = 5% K = 10%

Check product availability at www.ohmite.com

STD. PART NUMBERS

Ohms	100 Watt TGHG
0.00050	TGHGCR0005FE
0.00100	TGHGCR0010FE
0.00200	TGHGCR0020FE
0.00500	TGHGCR0050FE
0.01000	TGHGCR0100FE
0.01500	TGHGCR0150FE
0.02000	TGHGCR0200FE
0.02500	TGHGCR0250FE
0.05000	TGHGCR0500FE
0.07500	TGHGCR0750FE
0.10000	TGHGCR1000FE

THIS PRODUCT IS DESIGNED FOR USE WITH PROPER HEATSINKING.

Maximum base plate temperature of the resistor must be monitored and kept within specified limits to establish the power rating. Best technique is to attach a thermocouple to the side of the base plate of the resistor. Temperature of plastic housing or heat sink cannot be used to establish rating of the resistor.

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