TGHG Series

Precision Current Sense Resistors

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.



FEATURES

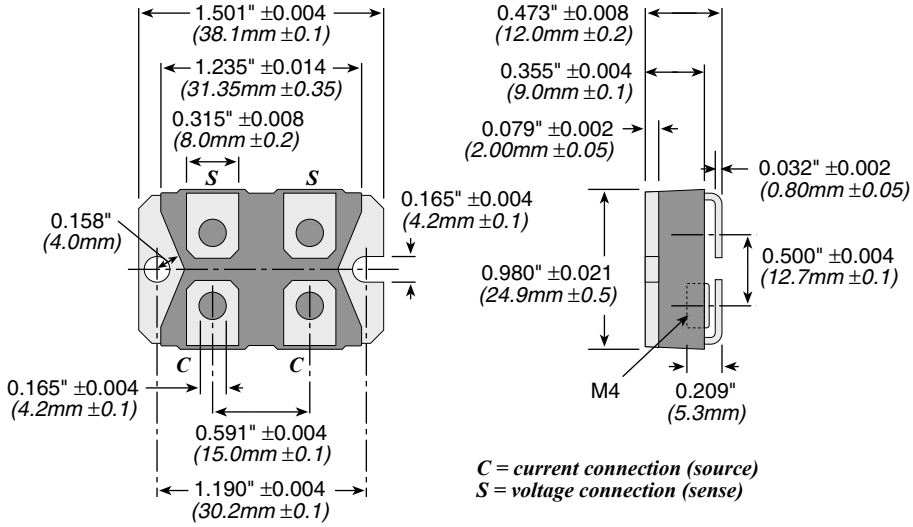
- Resistance values beginning at 0.5mΩ
- Non Inductive
- Four terminal Kelvin connection
- SOT 227 Package
- Four terminals to isolate measurement path from current flow path
- Accuracy in a high power package

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%
Pulse current: up to 500A/0.5sec, depending on ohmic value
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)

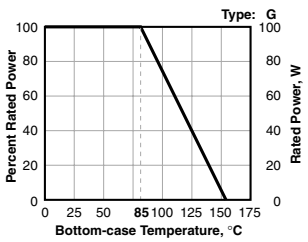
STD. PART NUMBERS

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
0.0750	TGHGCR0750FE
0.1000	TGHGCR1000FE



C = current connection (source)
S = voltage connection (sense)

DERATING



Best results can be reached by using a thermal transfer compound with a heat conductivity of better than 1W/mK

ORDERING INFORMATION

Configuration
C = current sense
E = RoHS compliant

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

- TGH = series
- G = Wattage: G = 100W
- R0200 = Resistance Value: Example: R0200=0.02 ohms
- F = Tolerance: F = 1%

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