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.





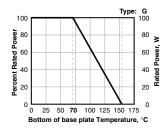
FEATURES

- Resistance values beginning at $0.5 m\Omega$
- 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

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Heat Sink	Nickel-plated copper
Terminal Nuts	American standard 303 stainless steel
Standard Resistance Values	$0.5m\Omega$ - 1Ω , others on request
Resistance Tolerances	0.5% (0.0005 thru 0.022Ω), 1%, 5%
Temperature Coefficient	referenced to 25°C, Δ R taken at -15°C and +105°C, <60ppm/°C; <500ppm/°C for resistance range 27m Ω -49m Ω)
Power Rating	100W at 70°C case temperature; 50Amp permanent (higher on request)
Dielectric strength	1000VDC, higher value on request
Heat Resistance	Rth <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



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

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.

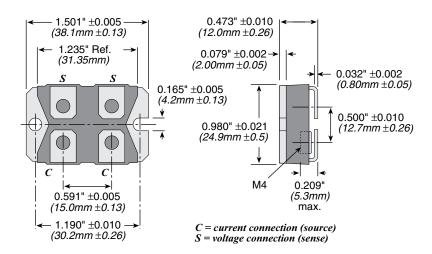
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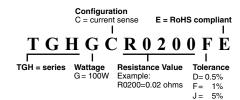
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DIMENSIONS



ORDERING INFORMATION



Standard 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