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  $0.5 \text{m}\Omega$
- 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

# <u>S P E C I F I C A T I O N S</u>

Heat Sink: Nickel-plated copper Terminal Nuts: American standard 303 stainless steel

Standard Resistance Values:  $0.5m\Omega$ -1 $\Omega$ , 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: Rth <0.56K/W

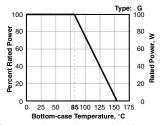
- Protection class: acc. to IEC 950/CSA22.2 950/M -89 and EN 60950.88:2
- Working Temp. Range: -55°C to +155°C
- Max. Torque for Contacts: 1.3Nm 8 (static)
- Max Torque for Base Plate:1.5 Nm (static)

#### **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

**TGHG** Series **Precision Current Sense Resistors** 1.501" ±0.004 0.473" ±0.008 (12.0mm ±0.2) (38.1mm ±0.1) 1.235" ±0.014 -0.355" ±0.004 (31.35mm ±0.35) (9.0mm ±0.1) 0.315" ±0.008 0.079" ±0.002 → (8.0mm ±0.2) (2.00mm ±0.05)  $\overrightarrow{s}$ 0.032" ±0.002 S (0.80mm ±0.05) 0.165" ±0.004 0.158" (4.2mm ±0.1) (4.0mm) ¥ 0.500" ±0.004 0.980" ±0.021 (12.7mm ±0.1) (24.9mm ±0.5)  $\bigcirc$ С С ≻ 0.165" ±0.004 0.209" M4 (4.2mm ±0.1) (5.3mm) 0.591" ±0.004 (15.0mm ±0.1) C = current connection (source) - 1.190" ±0.004 -S = voltage connection (sense)

## DERATING



(30.2mm ±0.1)

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

### ORDERING INFORMATION



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