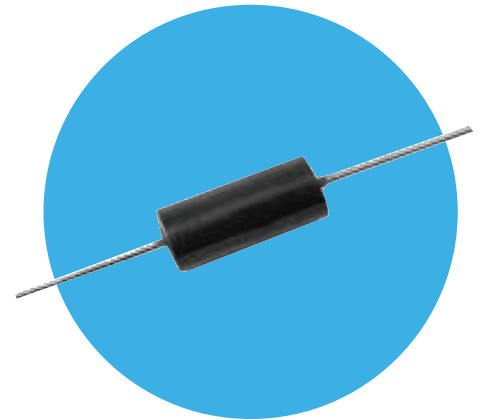


Thick Film Semi-Precision Metal Glaze™ Power Resistors

GS-3 Series

- Superior surge performance
- Resistance range from 1Ω - 3MΩ
- Standard tolerances of ±1%, ±2%, ±5%
- Power rating of 3W @25°C; 2W @70°C
- Effective as carbon composite replacement



OBSOLETE

 All Pb-free parts comply with EU Directive 2011/65/EU (RoHS2)

Electrical Data

| Part Number | Power Rating (Watts) | Resistance Range (Ohms) | Tolerance (±%) | TCR (±ppm/°C) | Maximum Operating Voltage (Volts) | Dielectric Withstanding Voltage (Volts) |
|-------------|------------------------------|-------------------------|----------------|------------------------------|-----------------------------------|---|
| GS-3 | 2.0 (@ 70°C) 3.0 (@ 25°C) | 1.0 - 3M | 1, 2, 5 | 50 (>10Ω) 100, 200 (≥ 1Ω) | 1000 | 1000 |

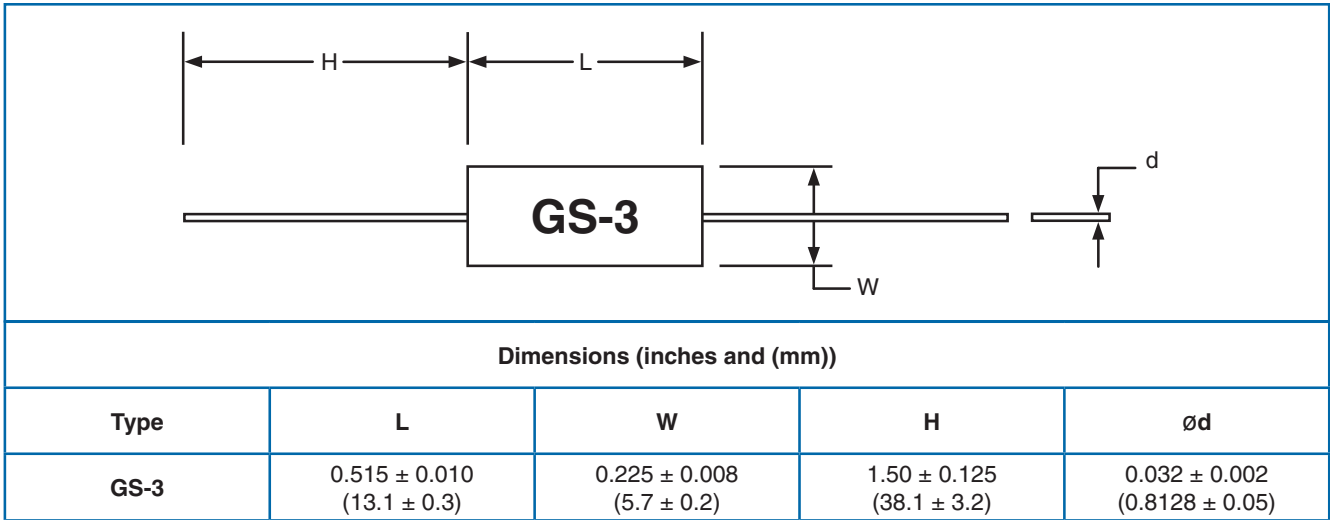
Environmental Data

| Test | | Maximum ΔR Limits | | | |
|-----------------------|---------|-------------------|--------------|-------------|--------|
| | | MIL-R-26 | MIL-R-10509D | MIL-R-22684 | GS-3 |
| TCR | ±ppm/°C | 30 | 100 | 200 | 100/50 |
| Load life | %ΔR | 0.5 | 1.0 | 2.0 | 2.0 |
| Short term overload | %ΔR | 0.20 | 0.50 | 0.50 | 0.20 |
| Moisture | %ΔR | 0.20 | 1.50 | 1.50 | 0.40 |
| Temperature Cycling | %ΔR | 0.20 | 0.50 | - | 0.20 |
| Solder Effect | %ΔR | - | 0.50 | 0.50 | 0.20 |
| Termination Strength | %ΔR | 0.10 | 0.20 | 0.50 | 0.10 |
| Shock | %ΔR | 0.10 | 0.50 | 0.50 | 0.10 |
| Vibration | %ΔR | 0.10 | 0.50 | 0.50 | 0.10 |
| Operating Temperature | | -55°C to +175°C | | | |

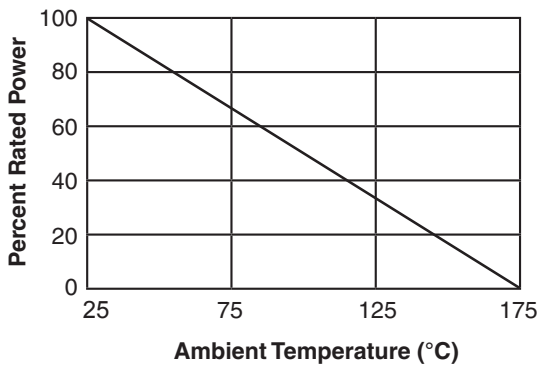
General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

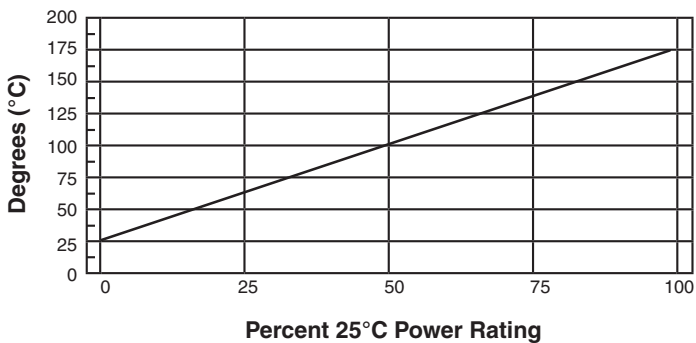
Physical Data



Power Derating Chart



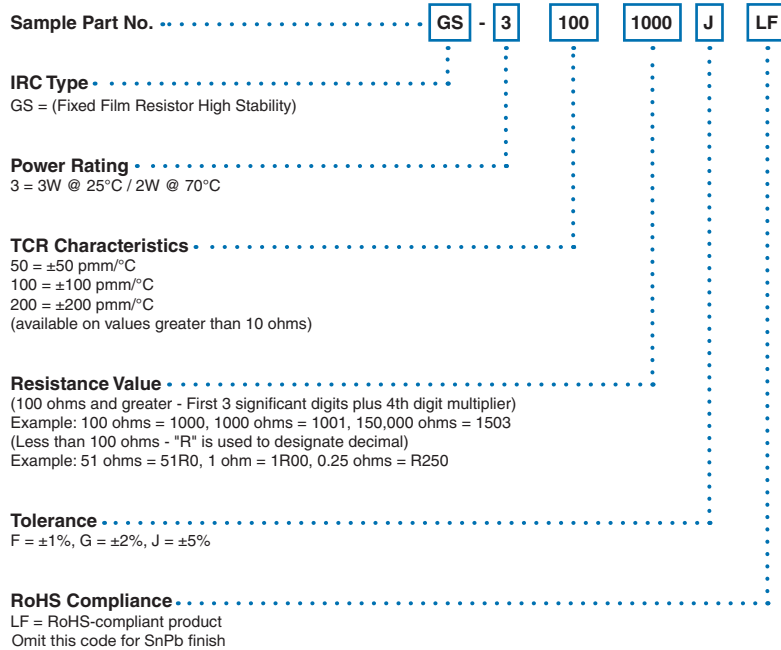
Hot Spot Temperature +25°C Ambient



General Note

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Ordering Data



General Note

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