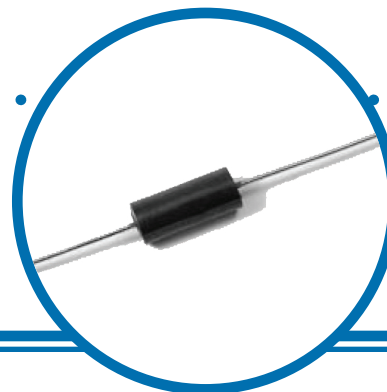


# Thick Film Semi-Precision Metal Glaze™ Power Resistors



## 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

## 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)<br>3.0 (@ 25°C) | 1.0 - 3M                | 1, 2, 5        | 50 (>10Ω)<br>100, 200 (≤ 10Ω) | 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

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

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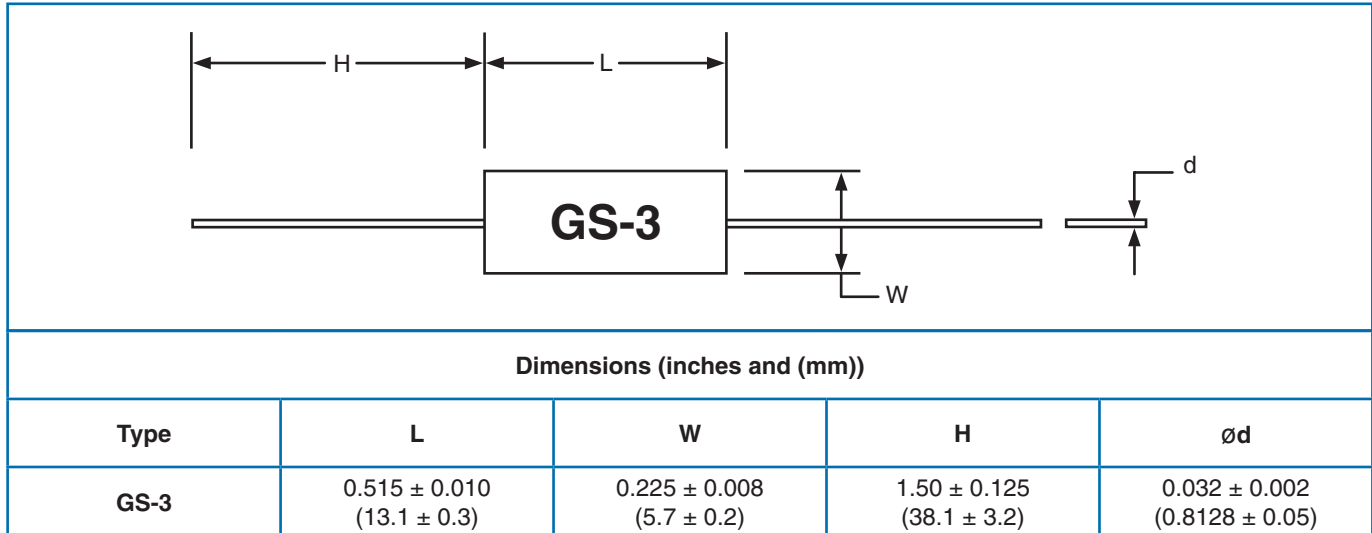


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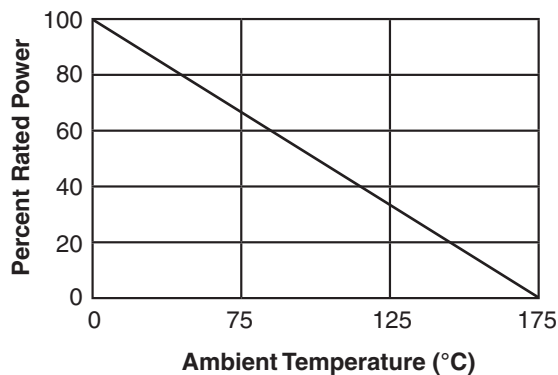
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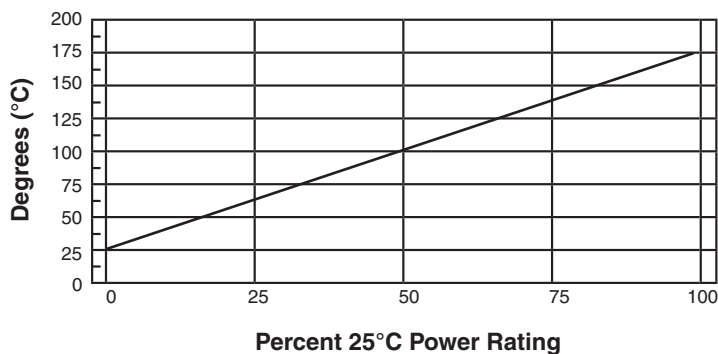
## Physical Data



## Power Derating Chart



## Hot Spot Temperature +25°C Ambient



# Thick Film Semi-Precision Metal Glaze™ Power Resistors



## Ordering Data

