

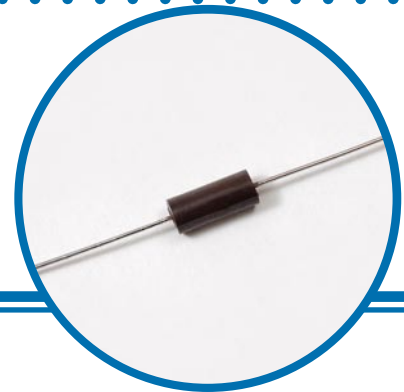
Thick Film Semi-Precision Metal Glaze™ Power Resistors



IRC Wire and Film Technologies Division

GS-3 Series

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



Specifications

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 (≤ 10Ω)	1000	1000

Environmental Performance

Test		Maximum ΔR Limits			
		MIL-R-26	MIL-R-10509-D	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 printing.

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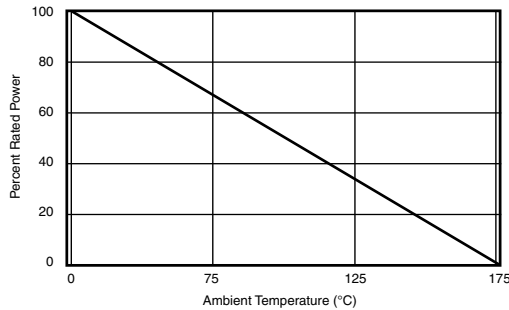


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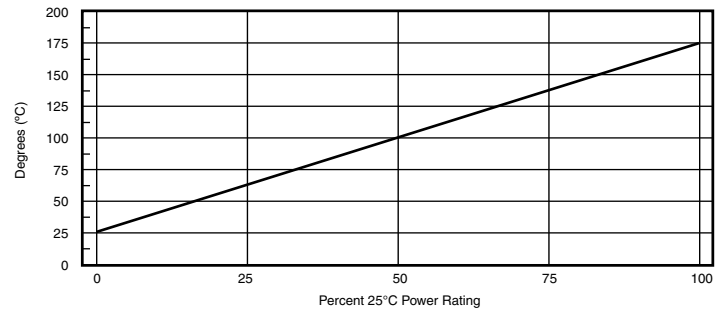
GS-3 Series Issue January 2007

Performance Curves

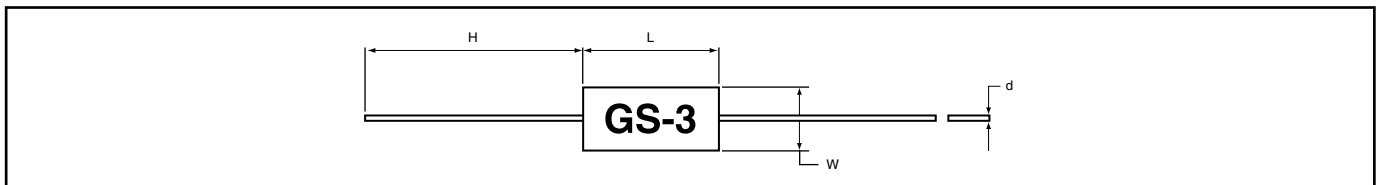
Derating Chart



Hot Spot Temperature +25°C Ambient



Dimensions (Inches and mm)



TYPE	L	W	H	Ød
GS-3	0.515 ±0.010 (13.1 ±0.3)	0.225 ±0.008 (5.7 ±0.2)	1.50 ±0.125 (38.1 ±3.2)	0.032 ±0.002 (0.8128 ±0.05)

Ordering Information

Sample Part No. GS-3 100 1000 J _____

IRC Style _____
 GS = (Fixed Film Resistor
 High Stability)

Power Rating _____
 3 = 3W @ 25°C / 2W @ 70°C

TCR Characteristics _____
 50 = ±50 ppm/°C
 100 = ±100 ppm/°C
 200 = ±200 ppm/°C
 (available on values greater than 10 ohms)

Resistance _____
 First three digits represent significant figures;
 fourth digit is number of zeros.

Tolerance _____
 F = ±1%, G = ±2%, J = ±5%

RoHS Compliance _____
 = Sn/Pb terminations
 LF = RoHS-compliant product

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