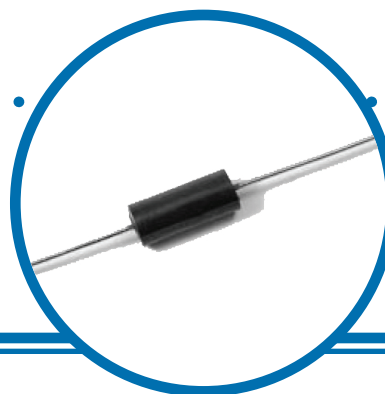


Thick Film Semi-Precision Metal Glaze™ Power Resistors



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) 3.0 (@ 25°C)	1.0 - 3M	1, 2, 5	50 (>10Ω) 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.

Wire and Film Technologies Division • 4222 South Staples Street • Corpus Christi Texas 78411 USA
Telephone: 361 992 7900 • Facsimile: 361 992 3377 • Website: www.irc-tt.com



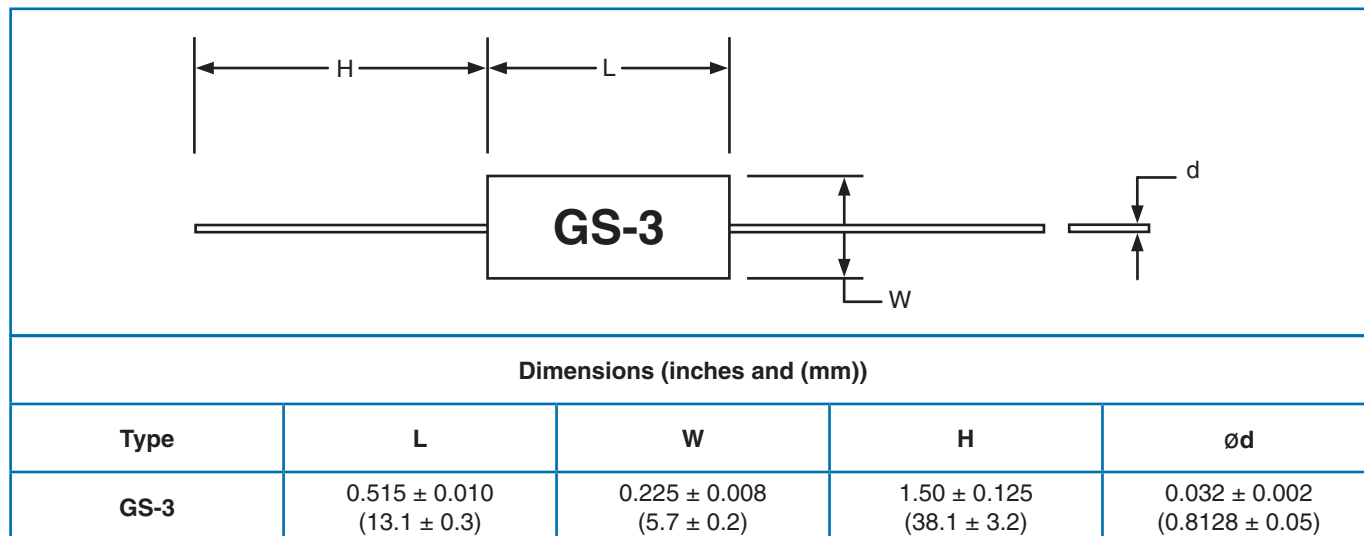
A subsidiary of
TT electronics plc

GS-3 Series Issue October 2008 Sheet 1 of 3

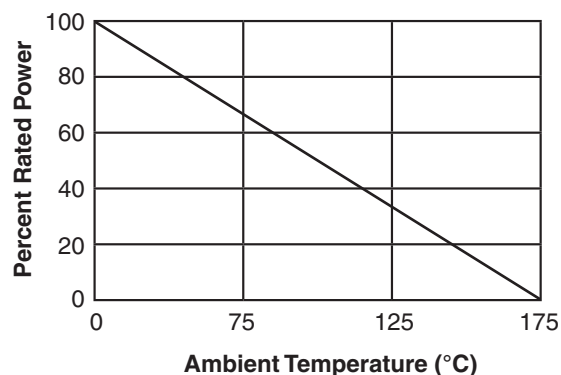
Thick Film Semi-Precision Metal Glaze™ Power Resistors



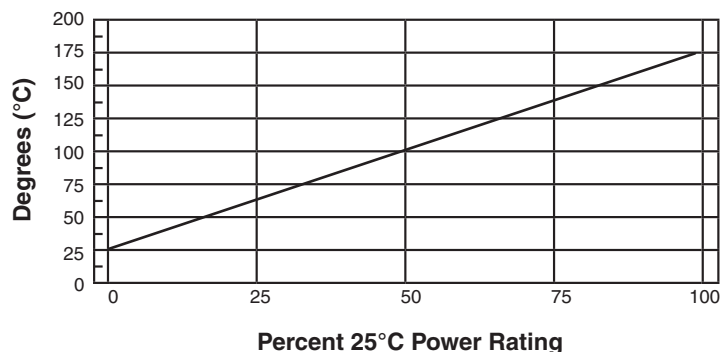
Physical Data



Power Derating Chart



Hot Spot Temperature +25°C Ambient



Thick Film Semi-Precision Metal Glaze™ Power Resistors



Ordering Data

Sample Part No.	GS	-	3	100	1000	J	LF	SLT
IRC Type •								
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 Value •								
(100 ohms and greater - First 3 significant digits plus 4th digit multiplier) Example: 100 ohms = 1000, 1000 ohms = 1001, 150,000 ohms = 1503 (Less than 100 ohms - "R" is used to designate decimal) Example: 51 ohms = 51R0, 1 ohm = 1R00, 0.25 ohms = R250								
Tolerance •								
F = ±1%, G = ±2%, J = ±5%								
RoHS Compliance •								
LF = RoHS-compliant product								
Packaging •								
SLT = Standard Lead Tape T24 T25								