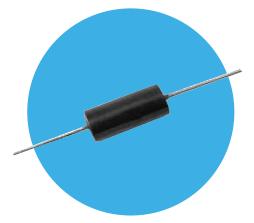
Resistors

Thick Film Semi-Precision Metal Glaze[™] Power Resistors

GS-3 Series

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





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

General Note

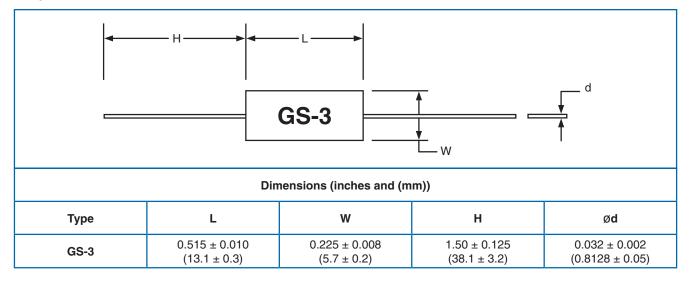
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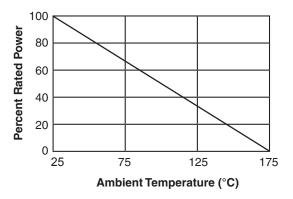


GS-3 Series

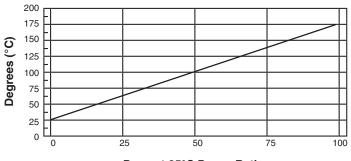
Physical Data



Power Derating Chart



Hot Spot Temperature +25°C Ambient



Percent 25°C Power Rating

General Note

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GS-3 Series



Ordering Data

Sample Part No	GS -	3	100	1000	J	LF
IRC Type - GS = (Fixed Film Resistor High Stability)		•	•	•	•	•
Power Rating • • • • • • • • • • • • • • • • • • •				•	•	
$\label{eq:constraint} \begin{array}{l} \textbf{TCR Characteristics} & \dots & \dots \\ 50 = \pm 50 \; pmm/^{\circ}C \\ 100 = \pm 100 \; pmm/^{\circ}C \\ 200 = \pm 200 \; pmm/^{\circ}C \\ (available \; on \; values \; greater \; than \; 10 \; ohms) \end{array}$		••••	:			• • • • • • • • • • • • • • • • • • • •
Resistance Value (100 ohms and greater - First 3 significant digits plus 4th dig Example: 100 ohms = 1000, 1000 ohms = 1001, 150,000 oh (Less than 100 ohms - "R" is used to designate decimal) Example: 51 ohms = 51R0, 1 ohm = 1R00, 0.25 ohms = R24	nms = 15				•	• • • • • • • • • • • • • • • • • • • •
Tolerance $F = \pm 1\%, G = \pm 2\%, J = \pm 5\%$	••••	••••	• • • • • •	•••••		
RoHS Compliance . LF = RoHS-compliant product Omit this code for SnPb finish	• • • • •		••••	••••		:

General Note

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 MHR0844SA108G70
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 MHR0422SA106F70
 MHR0422SA108F70
 MHR0422SA106F70
 MHR0424SA106F70

 MHR0424SA506F70
 MHR0424SA107F70
 MHR0422SA507F70
 MHR0424SA106F70
 MHR0424SA106F70