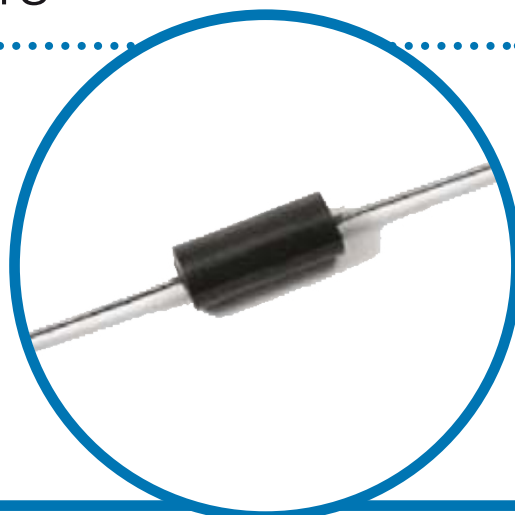


# Thick Film Semi-Precision Metal Glaze™ Power Resistors

## 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

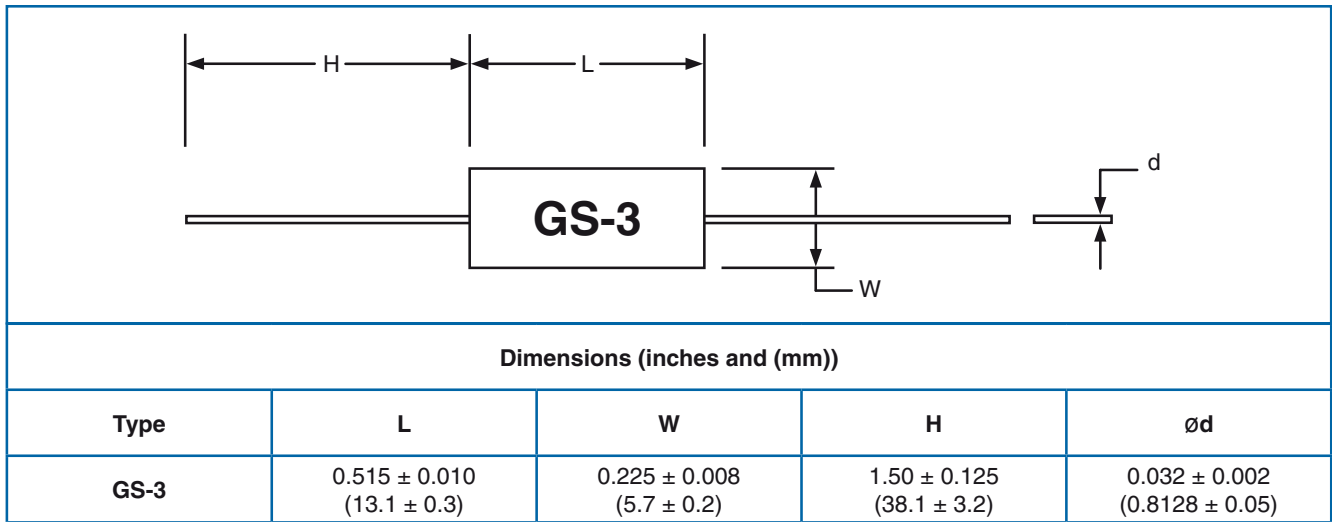
## Environmental Data

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			

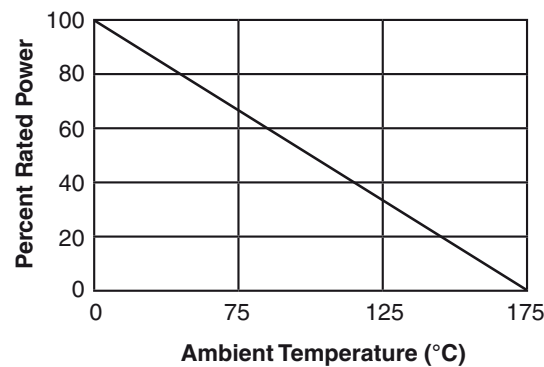
### General Note

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All information is subject to TT electronics' own data and is considered accurate at time of going to print.

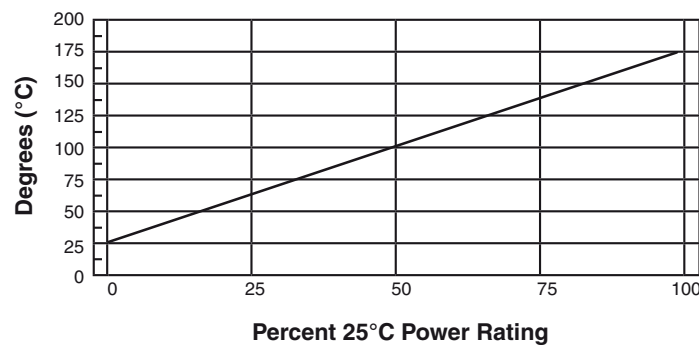
Physical Data



Power Derating Chart



Hot Spot Temperature +25°C Ambient



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## Ordering Data

<b>Sample Part No.</b> .....	<b>GS</b>	-	<b>3</b>	<b>100</b>	<b>1000</b>	<b>J</b>	<b>LF</b>	<b>SLT</b>
<b>IRC Type</b> .....								
GS = (Fixed Film Resistor High Stability)								
<b>Power Rating</b> .....								
3 = 3W @ 25°C / 2W @ 70°C								
<b>TCR Characteristics</b> .....								
50 = ±50 pmm/°C 100 = ±100 pmm/°C 200 = ±200 pmm/°C (available on values greater than 10 ohms)								
<b>Resistance Value</b> .....								
(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								
<b>Tolerance</b> .....								
F = ±1%, G = ±2%, J = ±5%								
<b>RoHS Compliance</b> .....								
LF = RoHS-compliant product								
<b>Packaging</b> .....								
SLT = Standard Lead Tape T24 T25								

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