

Precision Hermetic Metal Film Resistors Commercial



FEATURES

- Hermetic glass enclosure is impervious to harmful environments
- Inert gas filled
- Low noise (- 40 dB)
- Low TCR (down to 15 ppm/°C)

GENERAL SPECIFICATIONS

Resistance Range: 10.0 Ω to 10.0 MΩ

Tolerance: ± 0.05 %, ± 0.1 %, ± 0.5 %, and ± 1.0 %

Temperature Characteristics:

± 15 ppm/°C to ± 50 ppm/°C

Power Ratings:

1/10, 1/8, 1/4, 1/2 and 1 watt - 125 °C

1/8, 1/4, 1/2, 3/4, and 2 watt - 70 °C

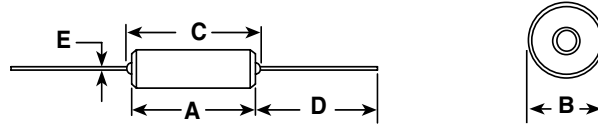
Power Derating: For ambient temperatures above 125 °C, see Power Derating Curve.

MECHANICAL SPECIFICATIONS

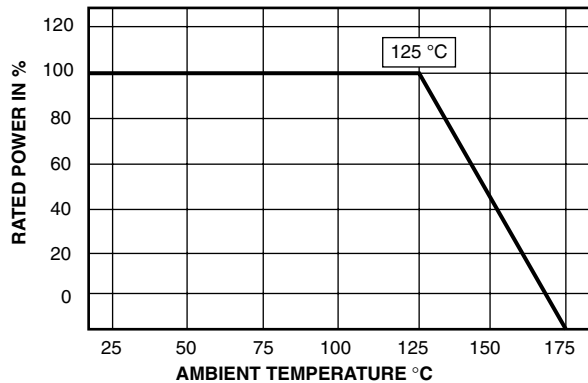
Termination: Vishay Angstrom GSR Resistors use gold-plated nickel leads, which are both solderable and weldable (hot solder dip is available as an option).

STANDARD ELECTRICAL SPECIFICATIONS					
MODEL	POWER RATING (W)		MAXIMUM WORKING VOLTAGE	RESISTANCE RANGE (Ω)	
	125 °C	70 °C		MIN.	MAX.
GSR55	0.10	0.125	200	10	2.5 M
GSR57	0.125	0.25	250	10	1 M
GSR60	0.125	0.25	250	10	3 M
GSR65	0.25	0.50	300	10	10 M
GSR70	0.50	0.75	350	10	10 M
GSR75	1.0	2.0	750	10	5 M

GLOBAL PART NUMBER INFORMATION																	
New Global Part Numbering: GSR55E49R900BMR (preferred part number format)																	
G	S	R	5	5	E	4	9	R	9	0	0	B	M	R			
GLOBAL MODEL <small>(see Standard Electrical Specifications table)</small>		TEMPERATURE COEFFICIENT X = 15 ppm E = 25 ppm H = 50 ppm		RESISTANCE VALUE R = Decimal K = Thousand M = Million 10R000 = 10 Ω 49R900 = 49.9 Ω 680K00 = 680 kΩ 1M0000 = 1.0 MΩ			TOLERANCE CODE A = ± 0.05 % B = ± 0.1 % D = ± 0.5 % F = ± 1.0 %			PACKAGING MR = Foil Bag (55, 57, 60, 65, 70) MS = Foil Bag (75 only) CS = Reel (55, 57, 60) CT = Reel (65, 70, 75) KA = Ammo (55, 57, 60) KC = Ammo (65, 70, 75)			SPECIAL Blank = Standard (Dash Number) (up to 3 digits) From 1 - 999 as applicable				
Historical Part Numbering: GSR55E49R9B (will continue to be accepted)																	
GSR55		E			49R9			B									
HISTORICAL MODEL		TEMPERATURE COEFFICIENT			RESISTANCE VALUE			TOLERANCE CODE									

DIMENSIONS in inches [millimeters]


MODEL	A LENGTH	B DIAMETER	C CL TO CL (MAX.)	D LENGTH ± 0.125 [± 3.18]	E DIAMETER ± 0.002 [± 0.051]	D APPROX. WEIGHT (grams)
GSR55	0.280 ± 0.020 [7.11 ± 0.51]	0.110 ± 0.020 [2.79 ± 0.51]	0.379 [9.63]	1.50 [38.10]	0.025 [0.635]	0.337
GSR57	0.310 ± 0.025 [7.87 ± 0.64]	0.150 ± 0.020 [3.81 ± 0.51]	0.467 [11.86]	1.50 [38.10]	0.025 [0.635]	0.405
GSR60	0.425 ± 0.030 [10.80 ± 0.76]	0.150 ± 0.020 [3.81 ± 0.51]	0.530 [14.25]	1.50 [38.10]	0.025 [0.635]	0.450
GSR65	0.640 ± 0.040 [16.26 ± 1.02]	0.240 ± 0.025 [6.10 ± 0.64]	0.780 [19.81]	1.50 [38.10]	0.025 [0.635]	1.300
GSR70	0.640 ± 0.040 [16.26 ± 1.02]	0.240 ± 0.025 [6.10 ± 0.64]	0.780 [19.81]	1.50 [38.10]	0.032 [0.813]	1.440
GSR75	1.062 ± 0.062 [26.98 ± 1.58]	0.250 ± 0.025 [6.35 ± 0.64]	1.186 [30.12]	1.50 [38.10]	0.032 [0.813]	2.500

POWER DERATING

MARKING

- Style and Size
- Value
- Tolerance and RTC
- Date Code



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