

Metal Film Resistors, Hermetically-Sealed, Precision, Industrial



FEATURES

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

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		MAXIMUM WORKING VOLTAGE ⁽¹⁾ V	TEMPERATURE COEFFICIENT ± ppm/°C	TOLERANCE ± %	RESISTANCE RANGE Ω
	P _{70 °C} W	P _{125 °C} W				
GSR55	0.125	0.10	200	15, 25, 50	0.05, 0.1, 0.5, 1	10 to 2.5M
GSR57	0.25	0.125	250	15, 25, 50	0.05, 0.1, 0.5, 1	10 to 1M
GSR60	0.25	0.125	250	15, 25, 50	0.05, 0.1, 0.5, 1	10 to 3M
GSR65	0.50	0.25	300	15, 25, 50	0.05, 0.1, 0.5, 1	10 to 10M
GSR70	0.75	0.50	350	15, 25, 50	0.05, 0.1, 0.5, 1	10 to 10M
GSR75	2.0	1.0	750	15, 25, 50	0.05, 0.1, 0.5, 1	10 to 5M

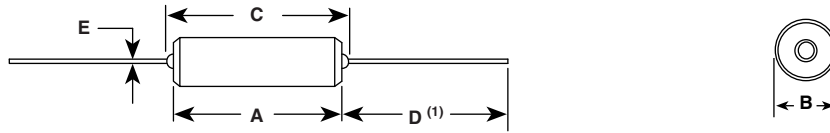
Note

⁽¹⁾ Continuous working voltage shall be $\sqrt{P \times R}$ or maximum working voltage, whichever is less.

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 = Ω K = kΩ M = MΩ 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) MS = Foil bag (65, 70, 75) CS = Reel (55, 57, 60) CT = Reel (65, 70, 75)	SPECIAL Blank = Standard (Dash Number) (up to 3 digits) From 1 to 999 as applicable	
Historical Part Numbering: GSR55E49R9B (will continue to be accepted)						
GSR55	E	49R9	B			
HISTORICAL MODEL	TEMPERATURE COEFFICIENT	RESISTANCE VALUE	TOLERANCE CODE			

Note

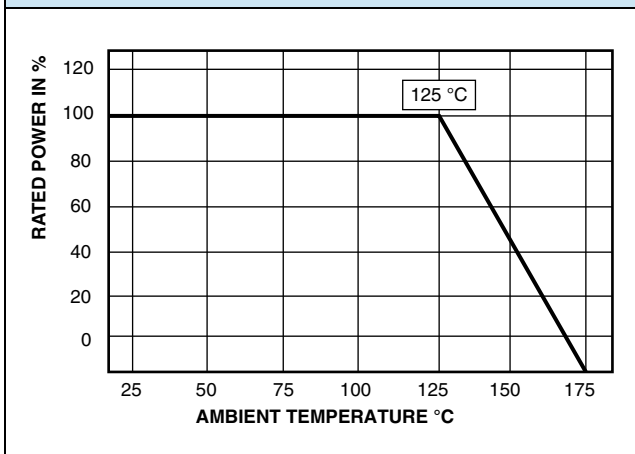
- For additional information on packaging, refer to the Through-Hole Resistor Packaging document (www.vishay.com/doc?31544).

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 (G)
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 (13.46)	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

Note

⁽¹⁾ Lead length for product in foil bag pack. For product supplied in tape and reel, the actual lead length would be based on the body size, tape spacing and lead trim.

POWER DERATING

MARKING

Temperature coefficient: H = 50 ppm, E = 25 ppm, X = 15 ppm
 Tolerance: F = 1 %, D = 0.5 %, B = 0.1 %, A = 0.05 %

GSR55, GSR57, GSR60, GSR65, GSR70, GSR75: (4 lines)

GSR-55	Style and size
24.9 Ω	Value
FE	Tolerance and TC
1143A	4-digit date code and production lot code



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