

## 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

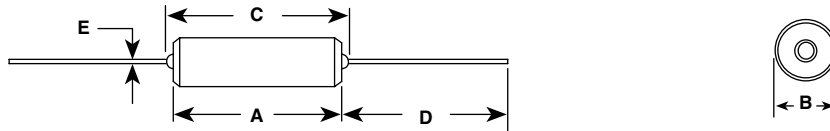
**Termination:** Vishay Angstrom GSR resistors use gold-plated nickel leads, which are both solderable and weldable (hot solder dip is available as an option).

STANDARD ELECTRICAL SPECIFICATIONS						
MODEL	POWER RATING		MAXIMUM WORKING VOLTAGE <sup>(1)</sup> V	TEMPERATURE COEFFICIENT ± ppm/°C	TOLERANCE ± %	RESISTANCE RANGE Ω
	$P_{70\text{ }^\circ\text{C}}$ W	$P_{125\text{ }^\circ\text{C}}$ 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

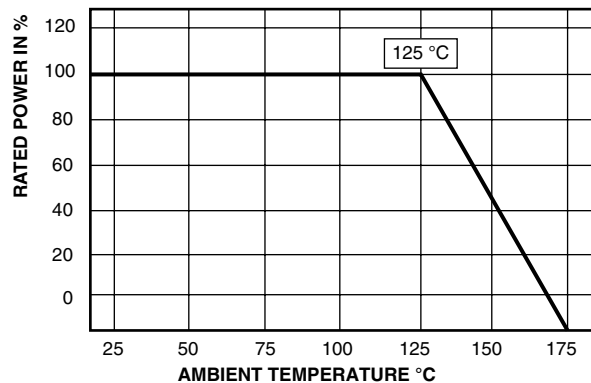
**Note**

<sup>(1)</sup> 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 <b>X</b> = 15 ppm <b>E</b> = 25 ppm <b>H</b> = 50 ppm		RESISTANCE VALUE R = Ω K = kΩ M = MΩ <b>10R000</b> = 10 Ω <b>49R900</b> = 49.9 Ω <b>680K00</b> = 680 kΩ <b>1M0000</b> = 1.0 MΩ			TOLERANCE CODE <b>A</b> = ± 0.05 % <b>B</b> = ± 0.1 % <b>D</b> = ± 0.5 % <b>F</b> = ± 1.0 %		PACKAGING <b>MR</b> = Foil bag (55, 57, 60, 65, 70) <b>MS</b> = Foil bag (75 only) <b>CS</b> = Reel (55, 57, 60) <b>CT</b> = Reel (65, 70, 75)			SPECIAL Blank = Standard (Dash Number) (up to 3 digits) From <b>1 to 999</b> 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 $\pm 0.125 (\pm 3.18)$	E DIAMETER $\pm 0.002 (\pm 0.051)$	D APPROX. WEIGHT (g)
GSR55	$0.280 \pm 0.020$ (7.11 $\pm$ 0.51)	$0.110 \pm 0.020$ (2.79 $\pm$ 0.51)	0.379 (9.63)	1.50 (38.10)	0.025 (0.635)	0.337
GSR57	$0.310 \pm 0.025$ (7.87 $\pm$ 0.64)	$0.150 \pm 0.020$ (3.81 $\pm$ 0.51)	0.467 (11.86)	1.50 (38.10)	0.025 (0.635)	0.405
GSR60	$0.425 \pm 0.030$ (10.80 $\pm$ 0.76)	$0.150 \pm 0.020$ (3.81 $\pm$ 0.51)	0.530 (13.46)	1.50 (38.10)	0.025 (0.635)	0.450
GSR65	$0.640 \pm 0.040$ (16.26 $\pm$ 1.02)	$0.240 \pm 0.025$ (6.10 $\pm$ 0.64)	0.780 (19.81)	1.50 (38.10)	0.025 (0.635)	1.300
GSR70	$0.640 \pm 0.040$ (16.26 $\pm$ 1.02)	$0.240 \pm 0.025$ (6.10 $\pm$ 0.64)	0.780 (19.81)	1.50 (38.10)	0.032 (0.813)	1.440
GSR75	$1.062 \pm 0.062$ (26.98 $\pm$ 1.58)	$0.250 \pm 0.025$ (6.35 $\pm$ 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



## Disclaimer

All product specifications and data are subject to change without notice.

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