

Cemented Wirewound Resistors

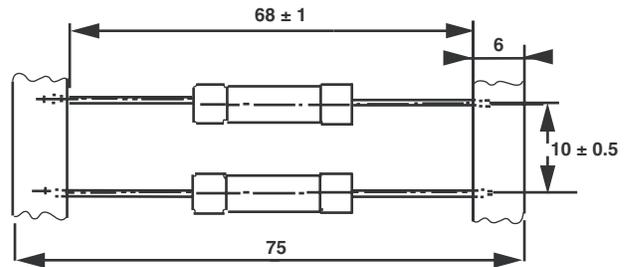
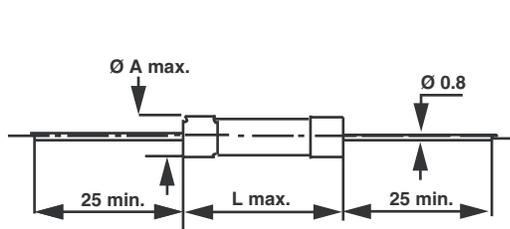


FEATURES

- 3 W and 4 W at + 40 °C
- Cemented protection
- Non flammability
- Industrial applications
- Compliant to RoHS directive 2002/95/EC
- Low values available: 10 mΩ available (for SG3)
100 mΩ available (for SG4)



RoHS
COMPLIANT



DIMENSIONS in millimeters (max.)

MODEL	Ø A	L
SG3	5 (5.2 for ≤ 0.2 Ω)	13
SG4	5.5 (5.8 for ≤ 0.5 Ω)	15.8

MECHANICAL SPECIFICATIONS

Mechanical Protection	Cement
Resistive Element	Ni Cr wire
Connections	Copper tinned

ENVIRONMENTAL SPECIFICATIONS

Temperature Limits	- 55 °C + 250 °C
Climatic Category	55/250/21

ELECTRICAL SPECIFICATIONS

	SG3	SG4
Ohmic Range	0.01 Ω to 3.3 kΩ	0.02 Ω to 3.9 kΩ
Standard Tolerance	± 5 %	
Power Rating at + 40 °C	3 W	4 W
Limiting Element Voltage	100 V	125 V
Critical Resistance	3.3 kΩ	3.9 kΩ
Temperature Coefficient (typical)	VΩ < 0.1 Ω 300 ppm/°C	
Temperature Coefficient (typical)	VΩ ≥ 0.1 Ω 150 ppm/°C	

PERFORMANCE

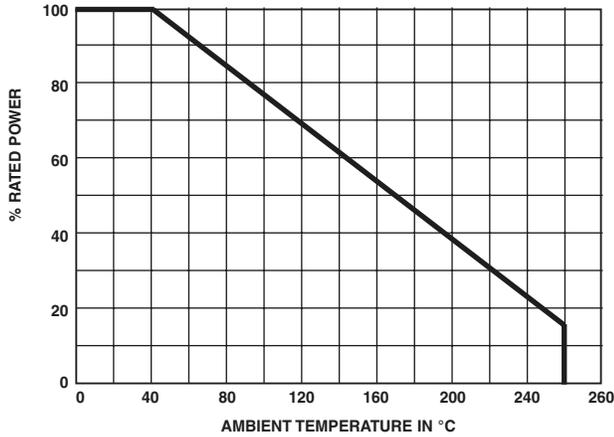
TESTS	CONDITIONS	TYPICAL VALUES AND DRIFTS
Short Time Overload	5 Pn during 5 s	± (1.5 % + 0.005 Ω)
Rapid Change of Temperature	EN1400 CEI-115-1 - 55 °C + 200 °C 5 cycles	± (1 % + 0.005 Ω)
Humidity	EN60115-1 56 days 93 % RH	± (1 % + 0.005 Ω)
Load Life	MIL-STD 202 Method 108 Pr 1000h	± (5 % + 0.005 Ω)
Moisture Resistance	MIL-STD 202 Method 106	± (1 % + 0.005 Ω)
Vibration	MIL-STD 202 Method 204 Test 20 g 10 Hz/2000 Hz	± (0.5 % + 0.005 Ω)
Shock	MIL-STD 202 Method 213 Test C	± (0.5 % + 0.005 Ω)



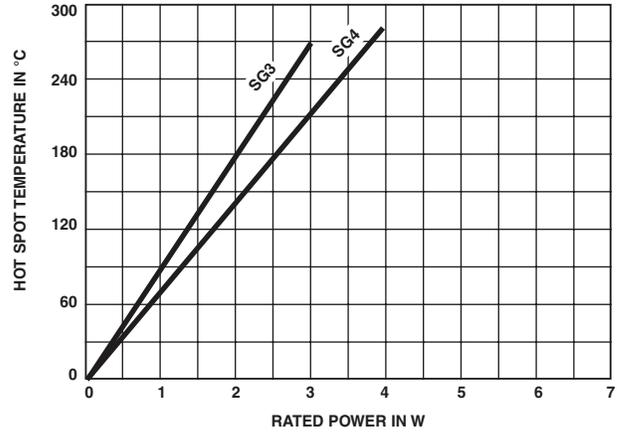
SPECIAL FEATURES

Please consult Vishay Sfernice for other ohmic values and tolerances.

POWER RATING CHART



TEMPERATURE RISE



MARKING

GEKA trademark, model, style, nominal resistance (in Ω), tolerance (in %).

Note: For low ohmic values, ($< 0.1 \Omega$), quality of marking cannot be guaranteed.

PACKAGING

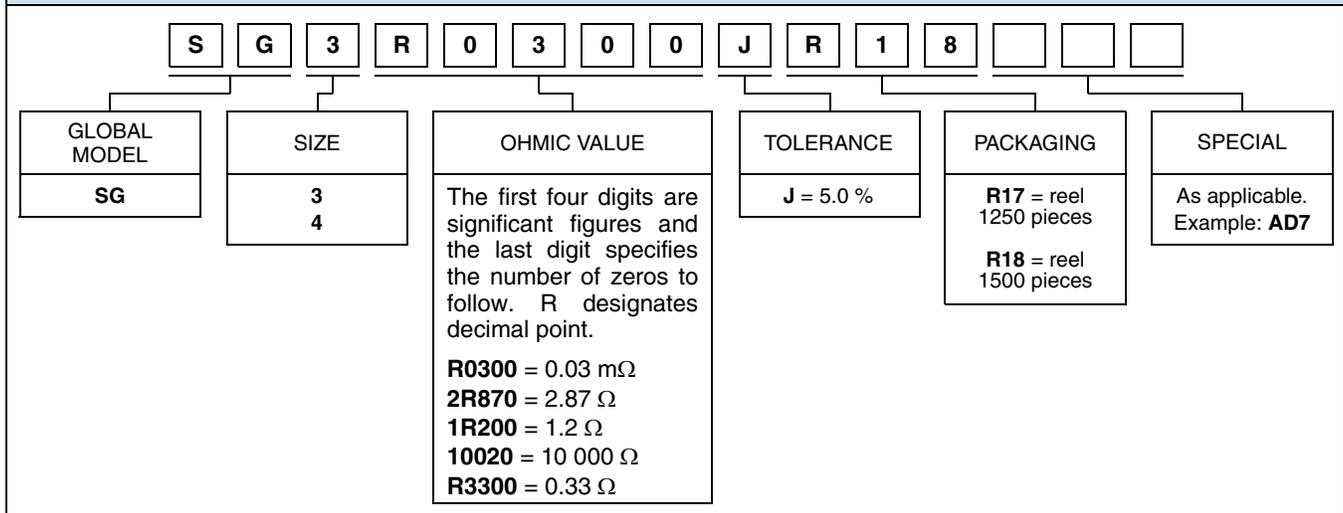
Tape and reel packaging by:

- 1500 pieces SG3
- 1250 pieces SG4

ORDERING INFORMATION

SG	3	330 Ω	$\pm 5 \%$	$\pm 150 \text{ ppm}/^\circ\text{C}$	TR1500	e3
MODEL	STYLE	OHMIC VALUE	TOLERANCE	TEMPERATURE COEFFICIENT	PACKAGING	LEAD (Pb)-FREE
	3 4			$\pm 300 \text{ ppm}/^\circ\text{C}$		

GLOBAL PART NUMBER INFORMATION





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