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Cemented Wirewound Resistors

FEATURES

- 3 W and 4 W at + 40 °C
- Cemented protection
- Non flammability
- Industrial applications
- Low values available: 20 mΩ available (for SG3) 100 m Ω available (for SG4)
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

DIMENSIONS in millimeters (max.)					
Ø A max. Ø 0.8 0 0.8	MODEL	ØA	L		
	SG3	5 (5.2 for \leq 0.2 Ω)	13		
	SG4	5.5 (5.8 for \leq 0.5 Ω)	15.8		

STANDARD ELECTRICAL SPECIFICATIONS				
MODEL	$\begin{array}{c c} \mbox{Resistance Range} \\ \Omega \end{array} \begin{array}{c} \mbox{Rated Power} \\ P_{40 \ \ C} \\ W \end{array} \begin{array}{c} \mbox{Limiting element} \\ \mbox{Voltage} \\ \mbox{V} \end{array}$		TOLERANCE ± %	
SG3	0.02 to 3.3K	3	100	5
SG4	0.02 to 3.9K	4	125	5

MECHANICAL SPECIFICATIONS			
Cement			
Ni Cr wire			
Copper tinned			

ENVIRONMENTAL SPECIFICATIONS			
Temperature Range - 55 °C to + 250 °C			
Climatic Category	55/250/21		

TECHNICAL SPECIFICATIONS				
	SG3	SG4		
Critical Resistance	3.3 kΩ	3.9 kΩ		
Temperature Coefficient (typical)	VΩ < 0.1 Ω 300 ppm/°C			
Temperature Coefficient (typical)	$V\Omega \ge 0.1 \ \Omega \ 150 \ ppm/^{\circ}C$			

PERFORMANCE					
TESTS	CONDITIONS	TYPICAL VALUES AND DRIFTS			
Short Time Overload	5 P _n 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 P _r 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)			

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COMPLIANT

Vishay Sfernice

1 For technical questions, contact: sferfixedresistors@vishay.com

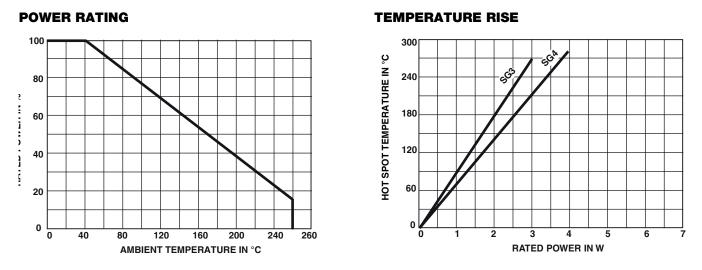
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Vishay Sfernice

SPECIAL FEATURES

Please consult Vishay Sfernice for other ohmic values and tolerances.

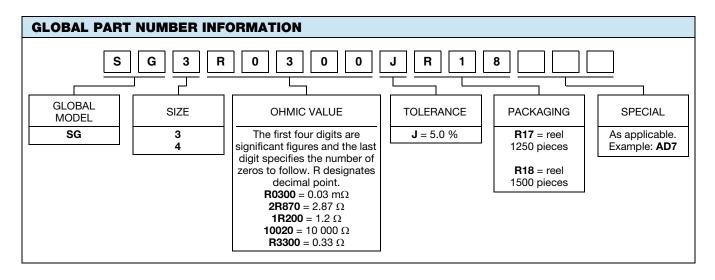


MARKING

GEKA trademark, model, style, nominal resistance (in Ω), tolerance (in %). Note: For low ohmic values, (< 0.1 Ω), quality of marking cannot be guaranteed.

PACKAGING		
Tape and reel packaging by: - 1500 pieces SG3 - 1250 pieces SG4		

ORDERING INFORMATION						
SG	3	330 Ω	± 5 %	± 150 ppm/°C	TR1500	e3
MODEL	STYLE 3 4	OHMIC VALUE	TOLERANCE	TEMPERATURE COEFFICIENT ± 300 ppm/°C	PACKAGING	LEAD (Pb)-FREE





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