

WIREWOUND RESISTOR SR

High Power, Low Value, Open Air, Wirewound Radial Leaded Resistor



KEY BENEFITS

- All welded construction
- High power: up to 5 W at + 70 °C
- Low resistance value: 0.004 Ω to 0.05 Ω
- Very low inductance: less than 5 nH
- Device helps maintain low board temperature by keeping the resistive element away from the board

APPLICATIONS

- Current sensing
- Electronic motor starting
- Switching circuitry
- Automotive electronic controls
- Instrumentation
- Power supplies

RESOURCES

- Datasheet: SR http://www.vishay.com/doc?31067
- For technical questions contact <u>ww2aresistors@vishay.com</u>

One of the World's Largest Manufacturers of Discrete Semiconductors and Passive Components



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FEATURES





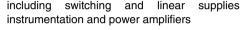
RoHS

COMPLIANT

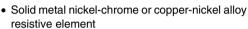
GREEN

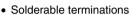
(5-2008)**

· Low resistance values for all types of current sensing, voltage division and pulse applications including switching and linear supplies,



• All welded construction





- Very low inductance
- AEC-Q200 qualified available (1)
- Compliant to RoHS Directive 2002/95/EC

Note

(1) Flame retardance test may not be applicable to some resistor technologies.

STANDARD ELECTRICAL SPECIFICATIONS			
MODEL	POWER RATING P _{70 °C} W	TOLERANCE ±%	RESISTANCE RANGE Ω
SR1	1.0	1, 5	0.005 to 0.03
SR3	3.0	1, 5	0.005 to 0.05
SR5	5.0	1, 5	0.004 to 0.05

TECHNICAL SPECIFICATIONS			
PARAMETER	UNIT	SR Resistor Characteristics	
Temperature Coefficient	ppm/°C	0.004 Ω to 0.005 Ω = ± 300 0.0051 Ω to 0.0099 Ω = ± 175 0.01 Ω to 0.05 Ω = ± 100	
Operating Temperature Range	°C	- 65 to + 275	
Maximum Continuous Current	Α	$(P/R)^{1/2}$	

