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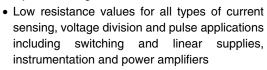


Wirewound Resistors, Open Air, Current Sense, Low Value



FEATURES

• Open air design



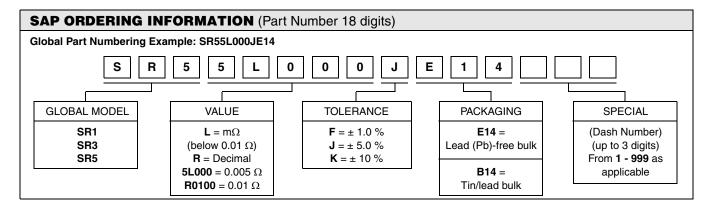




- · All welded construction
- Solid metal nickel-chrome or copper-nickel alloy resistive element
- Solderable terminations
- Very low inductance
- Lead (Pb)-free version is RoHS compliant

STANDARD ELECTRICAL SPECIFICATIONS						
MODEL	POWER RATING P ₇₀ ∘c W	TOLERANCE ± %	RESISTANCE RANGE Ω			
SR1	1.0	1, 5	0.005 - 0.03			
SR3	3.0	1, 5	0.005 - 0.05			
SR5	5.0	1, 5	0.004 - 0.05			

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



^{*} Pb containing terminations are not RoHS compliant, exemptions may apply

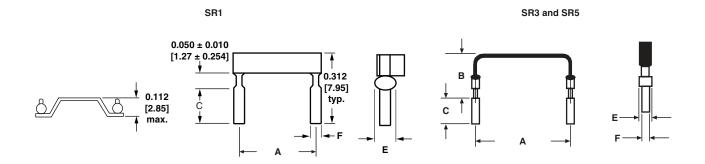
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DIMENSIONS in inches [millimeters]



MODEL	DIMENSIONS in inches [millimeters]				
	Α	В	С	E	F
SR1	0.450 + 0.020 [11.43 + 0.508]	-		0.070 [1.78]	
SR3	0.600 + 0.040/- 0.020 [15.24 + 1.020/- 0.508]	1.0 maximum	0.125 ± 0.030 [3.18 ± 0.762]		0.040 ± 0.002 [1.02 ± 0.051]
SR5	0.800 + 0.040/- 0.020 [20.32 + 1.020/- 0.508]	[25.4 maximum]			

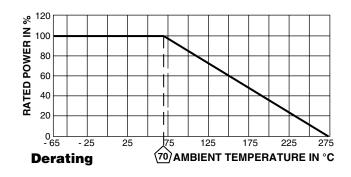
MATERIAL SPECIFICATIONS

Element: Nickel-chrome or copper-nickel alloy depending

on resistance value

Terminals: Tinned copper **Encapsulation:** None

Marking: None



PERFORMANCE				
TEST	CONDITIONS OF TEST	TEST LIMITS		
Temperature Cycling	- 55 °C to + 125 °C, 1000 cycles, 15 min at each extreme	± (1.0 % + 0.0005 Ω) ΔR		
Low Temperature Storage	- 65 °C for 24 h	± (0.5 % + 0.0005 Ω) ΔR		
High Temperature Exposure	1000 h at + 275 °C	± (2.0 % + 0.0005 Ω) ΔR		
Bias Humidity	+ 85 °C, 85 % RH, 10 % bias, 1000 h	± (1.0 % + 0.0005 Ω) ΔR		
Mechanical Shock	100 g's for 11 ms, 5 pulses	± (0.2 % + 0.0005 Ω) ΔR		
Vibration	Frequency varied 10 to 2000 Hz in 1 min, 3 directions, 12 h	± (0.2 % + 0.0005 Ω) ΔR		
Load Life	1000 h at rated power, + 70 °C, 1.5 h "ON", 0.5 h "OFF"	± (2.0 % + 0.0005 Ω) ΔR		
Resistance to Solder Heat	+ 260 °C solder, 10 - 12 s dwell, 25 mm/s emergence	± (0.5 % + 0.0005 Ω) ΔR		
Moisture Resistance	MIL-STD-202 Method 106, 0 % power, 7a and 7b not required	± (0.5 % + 0.0005 Ω) ΔR		

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