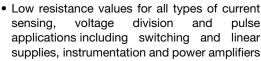


Wirewound Resistors, Open Air, Current Sense, Low Value



FEATURES

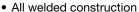
· Open air design



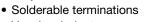


HALOGEN

FREE



- Solid metal nickel-chrome or copper-nickel alloy resistive element
- Very low inductance
- · Material categorization: for definitions of compliance please see www.vishav.com/doc?99912

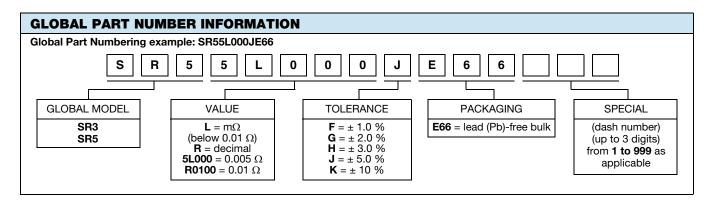


Note

This datasheet provides information about parts that are RoHS-compliant and/or parts that are non RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information / tables in this datasheet for details

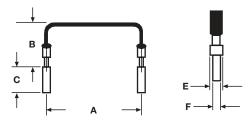
STANDARD ELECTRICAL SPECIFICATIONS						
MODEL	POWER RATING P _{70°C} W	RESISTANCE RANGE Ω	TOLERANCE ± %			
SR3	3.0	0.0025 to 0.10	1, 2, 3, 5, 10			
SR5	5.0	0.0025 to 0.05	1, 2, 3, 5, 10			

TECHNICAL SPECIFICATIONS						
PARAMETER	UNIT	SR RESISTOR CHARACTERISTICS				
Temperature Coefficient +25°C / -55°C; +25°C / +125°C	ppm/°C	\pm 400 = 0.0025 Ω to 0.0199 Ω ; \pm 300 = 0.02 Ω to 0.049 Ω ; \pm 250 = 0.05 Ω to 0.99 Ω ; \pm 200 = 0.1 Ω and above				
Operating Temperature Range	°C	-65 to +275				
Maximum Continuous Current A		$(P/R)^{1/2}$				





DIMENSIONS in inches [millimeters]



MODEL	DIMENSIONS in inches [millimeters]					
MODEL	Α	В	С	E	F	
SR3	0.600 + 0.040/- 0.020 [15.24 + 1.020/- 0.508]	1.0 maximum [25.4 maximum]	0.125 ± 0.030 [3.18 ± 0.762]	0.065 + 0.010/- 0.005 [1.65 + 0.254/- 0.127]	0.040 ± 0.002 [1.02 ± 0.051]	
SR5	0.800 + 0.040/- 0.020 [20.32 + 1.020/- 0.508]					

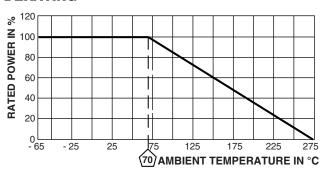
MATERIAL SPECIFICATIONS

Element: nickel-chrome or copper-nickel alloy depending

on resistance value Terminals: tinned copper Encapsulation: none

Marking: none

DERATING



PERFORMANCE					
TEST	CONDITIONS OF TEST	TEST LIMITS			
Temperature Cycling	-55 °C to +125 °C, 5 cycles, 15 min at each extreme	\pm (2.0 % + 0.0005 $\Omega)$ ΔR			
Low Temperature Storage	-65 °C for 24 h	\pm (0.5 % + 0.0005 Ω) ΔR			
Mechanical Shock	100 g's for 11 ms, 5 pulses	± (0.2 % + 0.0005 Ω) ΔR			
Vibration	Frequency varied 10 Hz to 2000 Hz in 1 min, 3 directions, 12 h	\pm (0.2 % + 0.0005 Ω) ΔR			
Load Life	1000 h at rated power, +70 °C, 1.5 h "ON", 0.5 h "OFF"	± (2.75 % + 0.0005 Ω) ΔR			
Resistance to Solder Heat	+260 °C solder, 10 s to 12 s dwell	± (0.2 % + 0.0005 Ω) ΔR			
Short Time Overload	5x rated power for 5 s	± (1.25 % + 0.0005 Ω) ΔR			
Damp Heat	103B of MIL 202F and test condition "D", humidity chamber per 1300 h	\pm (0.5 % + 0.0005 Ω) ΔR no mechanical damage			



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CPSL07R1000JB145 SR10-0.015-1% SR20-0.008-1% HPCR0402F12K0K9 HPCR0402F130RK9 HPCR0402F13K0K9

HPCR0402F17K4K9 HPCR0402F180KK9 HPCR0402F180RK9 HPCR0402F1K10K9 HPCR0402F220KK9 HPCR0402F220RK9

HPCR0402F24K0K9 HPCR0402F27K0K9 HPCR0402F2K00K9 HPCR0402F33K0K9 HPCR0402F430KK9 HPCR0402F4K30K9

HPCR0402F4K70K9 HPCR0402F680KK9 HPCR0402F680RK9 HPCR0402F390KK9 HPCR0402F39K0K9 HPCR0402F3K00K9 HPCR0402F560KK9 HPCR0402F560KK9 HPCR0402F5K00K9 HPCR0402F560KK9 HPCR0402F560KK9 HPCR0402F5K00K9 HPCR0402F5X00K9 HPCR0402F5X00K9 HPCR0402F5X00K9 HPCR0402F5X00K9 HPCR0402F5X00K9 HPCR0402F5X00K9
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