Vishay Dale



Wirewound Resistors, Commercial Power, Current Sense, Low Value



FEATURES

- · Open air design
- Complete welded construction
- Low temperature coefficient
- Extremely low resistance values
- Low inductance
- AEC-Q200 qualified available (1)
- Compliant to RoHS Directive 2002/95/EC



Nicto

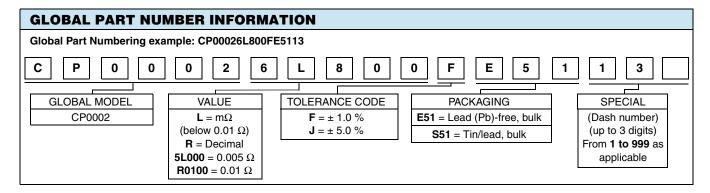
(1) Flame retardance test may not be applicable to some resistor technologies.

STANDARD ELECTRICAL SPECIFICATIONS						
GLOBAL MODEL	POWER RATING P _{70°C} W	RESISTANCE VALUE $^{(2)}$	TOLERANCE ± %	WEIGHT (Typical) g		
CP000213	1	0.005 to 0.03	1	0.2		

Note

(2) Other values available, contact factory

TECHNICAL SPECIFICATIONS				
PARAMETER	UNIT	CP000213		
Temperature Coefficient	ppm/°C	Element = ± 25		
		Component = ± 140		
Operating Temperature	°C	- 55 to + 275		



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

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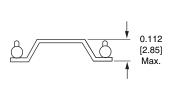
^{**} Please see document "Vishay Material Category Policy": www.vishay.com/doc?99902

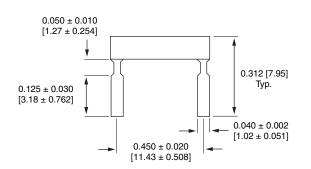


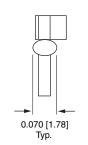
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DIMENSIONS [in millimeters]







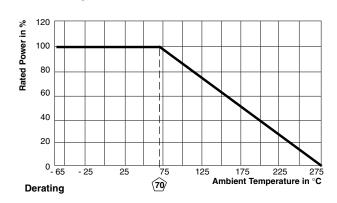
MECHANICAL SPECIFICATIONS

Terminal Strength: 10 pounds minimum

Construction: A completely welded assembly using a premium quality copper-nickel element and tinned copper terminals.

Packaging: Layered bulk packaging, 2000 pcs/bag sealed

DERATING



PERFORMANCE					
TEST	CONDITIONS OF TEST	TEST LIMITS			
Thermal shock	- 55 °C to + 150 °C, 1000 cycles, 15 min at each extreme	± (0.5 % + 0.0005 Ω) ΔR			
Short time overload	5 x rated power for 5 s	± (0.5 % + 0.0005 Ω) ΔR			
Low temperature operation	- 65 °C for 24 h	± (0.5 % + 0.0005 Ω) ΔR			
High temperature exposure	1000 h at + 170 °C	± (1.0 % + 0.0005 Ω) ΔR			
Bias humidity	+ 85 °C, 85 % RH, 10 % bias, 1000 h	± (0.5 % + 0.0005 Ω) ΔR			
Mechanical shock	100 g's for 6 ms, 5 pulses	± (0.5 % + 0.0005 Ω) ΔR			
Vibration	Frequency varied 10 Hz to 2000 Hz in 1 min, 3 directions, 12 h	± (0.5 % + 0.0005 Ω) ΔR			
Load life	1000 h at rated power, + 70 °C, 1.5 h "ON", 0.5 h "OFF"	± (1.0 % + 0.0005 Ω) ΔR			
Resistance to solder heat	+ 260 °C solder, 10 s to 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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