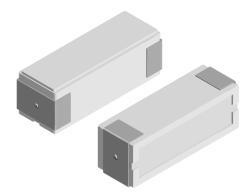




Wirewound Resistors, Commercial Power, Surface Mount

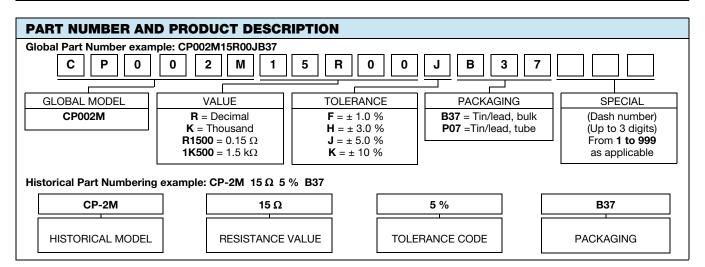


FEATURES

- High wattage in a SMD package
- Meets or performs better than EIA-RS-344 requirements
- Special inorganic potting compound and ceramic case provide high thermal conductivity in a fireproof package
- Superior surge capability
- Direct mounting on printed circuit board

STANDARD ELECTRICAL SPECIFICATIONS					
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING P _{40 °C} W	RESISTANCE RANGE Ω	TOLERANCE ± %	WEIGHT (typical) g
CP002M	CP-2M	4	0.1 to 2.74K	1, 3, 5, 10	1.6

TECHNICAL SPECIFICATIONS			
PARAMETER	UNIT	CP002M RESISTOR CHARACTERISTICS	
Temperature Coefficient	ppm/°C	\pm 50 1.0 Ω and above, \pm 90 below 1.0 Ω	
Short Time Overload	-	5 x rated power for 5 s	
Dielectric Withstanding Voltage	V _{AC}	1000	
Maximum Working Voltage	V	(P x R) ^{1/2}	
Operating Temperature Range	°C	- 65 to + 175	

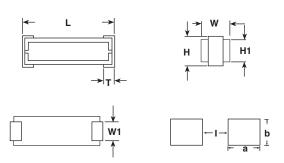


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Wirewound Resistors, Commercial Power, Surface Mount



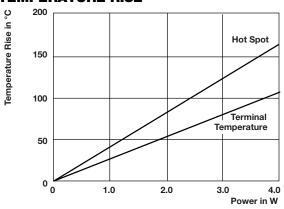
DIMENSIONS in inches [millimeters]



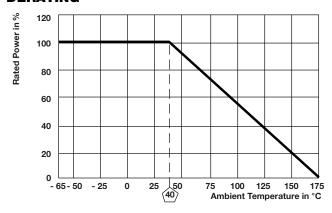
	DIMENSIONS in inches [millimeters]					
MODEL	L ± 0.032 [0.813]			W ₁ ± 0.010 [0.254]	H ₁ ± 0.032 [0.813]	T ± 0.010 [0.254]
CP002M	0.712 [18.08]	0.250 [6.35]	0.262 [6.65]	0.170 [4.32]	0.250 [6.35]	0.100 [2.54]

	MODEL	SOLDER PAD DIMENSIONS in inches [millimeters]			
		а	b	1	
	CP002M	0.280 [7.11]	0.200 [5.08]	0.460 [11.68]	

TEMPERATURE RISE



DERATING



MATERIAL SPECIFICATIONS

Element: Copper-nickel alloy or nickel-chrome alloy

depending on resistance value

Core: Alumina ceramic

Body: Steatite ceramic case with inorganic potting

compound

Terminals: High temperature solder dipped copper				
Part Marking:	DALE, model, wattage, value, tolerance,			
data coda				

PERFORMANCE				
TEST	CONDITIONS OF TEST	TEST LIMITS		
Thermal shock	- 55 °C to + 150 °C, 5 cycles, 15 min at each extreme	± (0.2 % + 0.05 Ω) ΔR		
Short time overload	5 x rated power for 5 s	± (0.5 % + 0.05 Ω) ΔR		
Low temperature storage	- 65 °C for 24 h	\pm (0.2 % + 0.05 Ω) ΔR		
High temperature condition	1000 h at + 175 °C	± (0.5 % + 0.05 Ω) ΔR		
Insulation resistance	MIL-STD-202, method 302, 100 V	1000 M Ω min.		
Mechanical shock	100 g's for 11 ms, 5 pulses	± (0.1 % + 0.05 Ω) ΔR		
Vibration	Frequency varied 10 Hz to 500 Hz in one min, 3 directions, 9 h	± (0.1 % + 0.05 Ω) ΔR		
Load life	1000 h at rated power, + 40 °C, 1.5 h "ON", 0.5 h "OFF"	\pm (1.0 % + 0.05 Ω) ΔR		
Resistance to solder heat	+ 260 °C solder, 10 s to 12 s dwell, 25 mm/s emergence	\pm (0.5 % + 0.05 Ω) ΔR		
Bias humidity	+ 85 °C, 85 % RH, 10 % bias, 1000 h	± (1.0 % + 0.05 Ω) ΔR		



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