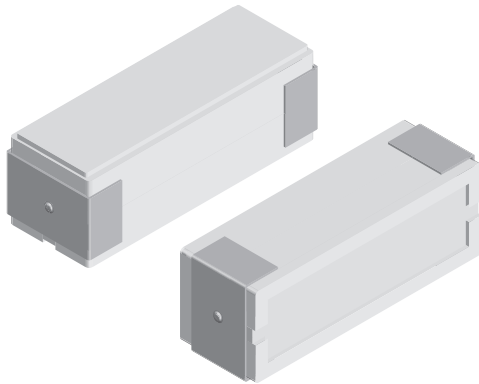


Wirewound Resistors, Commercial Power, Surface Mount



FEATURES

- High wattage capability
- Meets or performs better than EIA-RS-344 requirements
- Compact size
- 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

MODEL	POWER RATING $P_{40^{\circ}\text{C}}$ W	RESISTANCE RANGE Ω $\pm 5\%$ Standard; $\pm 1\%$ and $\pm 3\%$ Available
CP-2M	4	0.1 - 2.74k

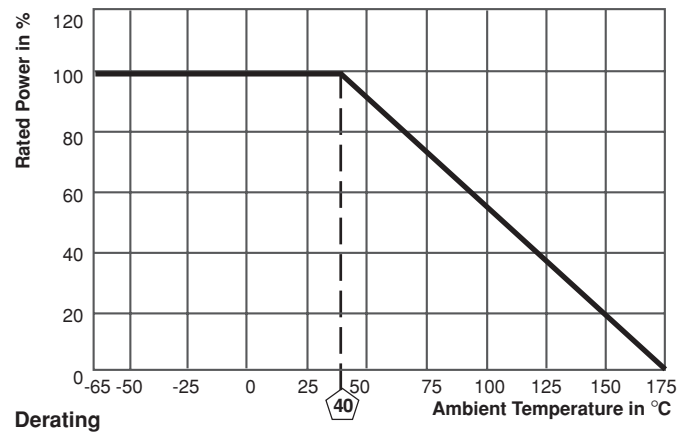
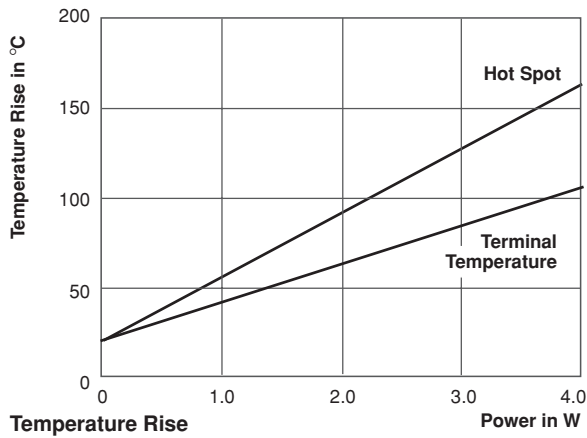
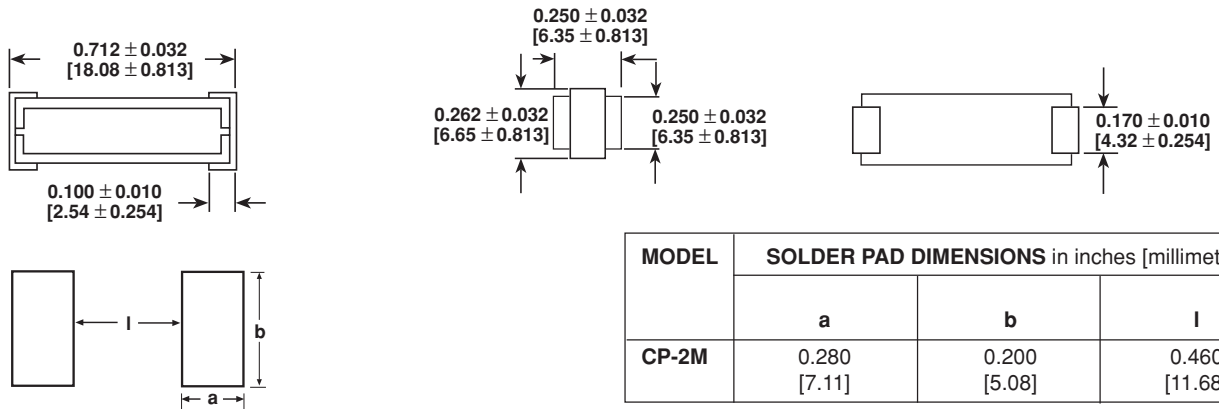
TECHNICAL SPECIFICATIONS

PARAMETER	UNIT	CP-2M RESISTOR CHARACTERISTICS
Temperature Coefficient	ppm/ $^{\circ}\text{C}$	± 90 below 1.0 Ω , ± 50 1.0 Ω and above
Short Time Overload	—	5 x rated power for 5 seconds
Operating Temperature Range	$^{\circ}\text{C}$	- 65/+ 175
Dielectric Withstanding Voltage	V_{AC}	1000
Maximum Working Voltage	V	$(P \times R)^{1/2}$
Weight (typical)	g	1.6

ORDERING INFORMATION

CP-2M MODEL	10 Ω RESISTANCE Ω	5% TOLERANCE $\pm \%$	B14 PACKAGING B14 = Bulk Pack P07 = Tube Pack
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DIMENSIONS in inches [millimeters]



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, Date Code

PERFORMANCE		
TEST	CONDITIONS OF TEST	TEST LIMITS
Thermal Shock	- 55°C to + 150°C, 5 cycles, 15 minutes at each extreme	± (0.2% + 0.05Ω)ΔR
Short Time Overload	5 x rated power for 5 seconds	± (0.5% + 0.05Ω)ΔR
Low Temperature Storage	- 65°C for 24 hours	± (0.2% + 0.05Ω)ΔR
High Temperature Condition	1000 hours at +175°C	± (0.5% + 0.05Ω)ΔR
Insulation Resistance	MIL-STD-202 Method 302, 100 volts	1000 MΩ minimum
Mechanical Shock	100g's for 11 milliseconds, 5 pulses	± (0.1% + 0.05Ω)ΔR
Vibration	Frequency varied 10 to 500Hz in one minute, 3 directions, 9 hours	± (0.1% + 0.05Ω)ΔR
Load Life	1000 hours at rated power, + 40°C, 1.5 hours "ON", 0.5 hours "OFF"	± (1.0% + 0.05Ω)ΔR
Resistance to Solder Heat	+ 260°C solder, 10-12 second dwell, 25mm/second emergence	± (0.5% + 0.05Ω)ΔR
Bias Humidity	+ 85°C, 85% RH, 10% bias, 1000 hours	± (1.0% + 0.05Ω)ΔR