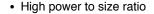
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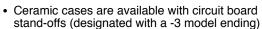


Wirewound Resistors, Commercial Power, Axial Lead, Low Value

FEATURES









COMPLIANT

- Superior surge capability
- · Extremely low resistance values
- · Complete welded construction
- Special inorganic potting compound and ceramic case provide high thermal conductivity in a fireproof package

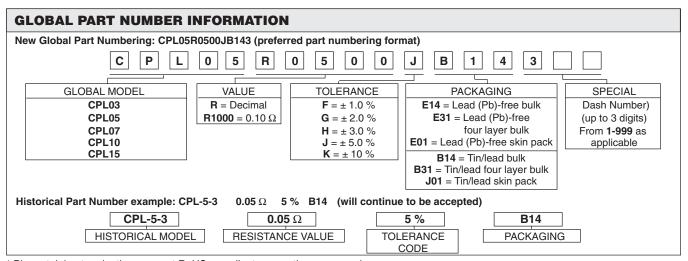


STANDARD ELECTRICAL SPECIFICATIONS						
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING P _{40 ℃} W	RESISTANCE RANGE** Ω ± 5 % Standard***	WEIGHT (Typical) g		
CPL03	CPL-3	3	0.01 - 0.10	3.4		
CPL033	CPL-3-3	3	0.01 - 0.10	3.6		
CPL05	CPL-5	5	0.01 - 0.10	4.8		
CPL053	CPL-5-3	5	0.01 - 0.10	5.0		
CPL07	CPL-7	7	0.01 - 0.10	6.8		
CPL073	CPL-7-3	7	0.01 - 0.10	7.0		
CPL10	CPL-10	10	0.01 - 0.10	9.5		
CPL103	CPL-10-3	10	0.01 - 0.10	9.9		
CPL15	CPL-15	15	0.01 - 0.10	16.8		
CPL153	CPL-15-3	15	0.01 - 0.10	17.4		

^{**} Resistance is measured 3/8" [9.52 mm] from resistor body.

^{***} \pm 1 % and \pm 3 % available.

TECHNICAL SPECIFICATIONS					
PARAMETER	UNIT	CPL RESISTOR CHARACTERISTICS			
Temperature Coefficient	ppm/°C	± 300			
Short Time Overload	-	5 x rated power for 5 seconds			
Maximum Working Voltage	V	(P x R) 1/2			
Operating Temperature Range	°C	- 65/+ 275			
Terminal Strength	lb	10 minimum			
Dielectric Withstanding Voltage	Vac	1000			



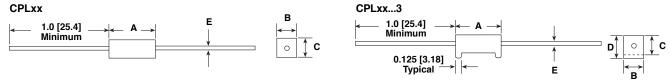
^{*} Pb containing terminations are not RoHS compliant, exemptions may apply



Wirewound Resistors, Commercial Power, Axial Lead, Low Value

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DIMENSIONS



GLOBAL	DIMENSIONS in inches [millimeters]					
MODEL	A ± 0.031 [0.794]	B ± 0.031 [0.794]	C ± 0.031 [0.794]	D ± 0.031 [0.794]	E ± 0.001 [0.025]	
CPL03	0.875 [22.22]	0.313 [7.94]	0.313 [7.94]	_	0.032 [0.813]	
CPL033	0.875 [22.22]	0.313 [7.94]	0.313 [7.94]	0.375 [9.52]	0.032 [0.813]	
CPL05	0.875 [22.22]	0.375 [9.52]	0.344 [8.73]	_	0.032 [0.813]	
CPL053	0.875 [22.22]	0.375 [9.52]	0.344 [8.73]	0.406 [10.32]	0.032 [0.813]	
CPL07	1.391 [35.32]	0.375 [9.52]	0.344 [8.73]	_	0.032 [0.813]	
CPL073	1.391 [35.32]	0.375 [9.52]	0.344 [8.73]	0.469 [11.91]	0.032 [0.813]	
CPL10	1.875 [47.62]	0.375 [9.52]	0.344 [8.73]	_	0.032 [0.813]	
CPL103	1.875 [47.62]	0.375 [9.52]	0.344 [8.73]	0.469 [11.91]	0.032 [0.813]	
CPL15	1.875 [47.62]	0.500 [12.70]	0.500 [12.70]	_	0.032 [0.813]	
CPL153	1.875 [47.62]	0.500 [12.70]	0.500 [12.70]	0.625 [15.87]	0.032 [0.813]	

^{*}Potting compound may extend outside of ceramic case up to 0.060 [1.52] maximum per side.

MATERIAL SPECIFICATIONS

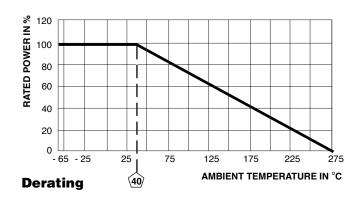
Element: Self-supporting copper-nickel alloy or nickel-chrome alloy, depending on resistance value

Body: Steatite ceramic case with inorganic potting compound

Terminals: Tinned copper

Part Marking: DALE, Model, Wattage, Value, Tolerance,

Date Code



PERFORMANCE				
TEST	CONDITIONS OF TEST	TEST LIMITS (EIA RS-344)		
Thermal Shock	- 55 °C to + 275 °C, 5 cycles, 30 minute dwell time	± (5.0 % + 0.05 Ω) ΔR		
Short Time Overload	5 x rated power for 5 seconds	± (4.0 % + 0.05 Ω) ΔR		
Dielectric Withstanding Voltage	1000 V _{rms} for one minute	± (2.0 % + 0.05 Ω) ΔR		
Low Temperature Operation	- 65 °C, full rated working voltage for 45 minutes	± (3.0 % + 0.05 Ω) ΔR		
Bias Humidity	75 °C, 90 % - 100 % RH, 240 hours	± (5.0 % + 0.05 Ω) ΔR		
Load Life	1000 hours at rated power, + 40 °C, 1.5 hours "ON", 0.5 hours "OFF"	± (5.0 % + 0.05 Ω) ΔR		
Terminal Strength	5 to 10 second 10 pound pull test, torsion test - 3 alternating directions, 360° each	± (1.0 % + 0.05 Ω) ΔR		
Resistance to Solder Heat	Terminal immersed 3.5 seconds in molten solder at 1/8" to 3/16" from body	± (1.0 % + 0.05 Ω) ΔR		



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