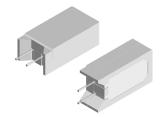


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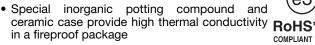
Wirewound/Metal Film Resistors, **Commercial Power, Vertical Mount**



FEATURES

- Board space saving due to vertical design
- Meets or exceeds requirements of EIA Standard RS-344













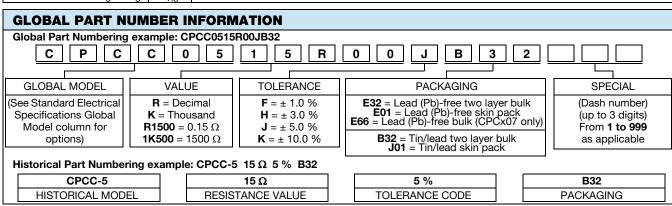


STANDARD ELECTRICAL SPECIFICATIONS						
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING P _{70 °C} W	RESISTANCE RANGE Ω	TOLERANCE ± %	WEIGHT (typical)	
CPCL02	CPCL-2	2	0.01 to 0.10	5, 10	3.5	
CPCC02	CPCC-2	2	0.1 to 500	5, 10	3.5	
CPCP02	CPCP-2	2	0.1 to 4K	1, 5	3.5	
CPCF02	CPCF-2	2	501 to 150K	1, 5, 10	3.5	
CPCL03	CPCL-3	3	0.01 to 0.10	5, 10	5.5	
CPCC03	CPCC-3	3	0.1 to 800	5, 10	5.5	
CPCP03	CPCP-3	3	0.1 to 5K	1, 5	5.5	
CPCF03	CPCF-3	3	801 to 150K	1, 5, 10	5.5	
CPCL05	CPCL-5	5	0.01 to 0.10	5, 10	6.9	
CPCC05	CPCC-5	5	0.1 to 800	5, 10	6.9	
CPCP05	CPCP-5	5	0.1 to 5K	1, 5	6.9	
CPCF05	CPCF-5	5	801 to 150K	1, 5, 10	6.9	
CPCC07/CPCF07 (1)	CPCC07/CPCF07	7	0.1 to 50K	5, 10	9.2	
CPCL10	CPCL-10	10	0.01 to 0.10	5, 10	14.3	
CPCC10	CPCC-10	10	0.1 to 1.5K	5, 10	14.3	
CPCP10	CPCP-10	10	0.1 to 8K	1, 5	14.3	

Notes

Non-inductively wound types are available on the CPCP series signified by a 1 in the special character on part number such as CPCP0510R00FB321. Max. resistance value will be ½ of the standard CPCP. CPCx07 is only available as CPCC or CPCF High Volume style which is noted by using E66 package code and can be found on datasheet

TECHNICAL SPECIFICATIONS					
PARAMETER	UNIT	CPCLxx	CPCCxx	CPCPxx	CPCFxx
Temperature Coefficient	ppm/°C	$\pm 100 = 0.05 \Omega \text{ to } 0.1 \Omega,$ $\pm 400 = 0.01 \Omega \text{ to } 0.049 \Omega$	\pm 300 = 1.0 Ω and above, \pm 600 = 0.1 Ω to 0.99 Ω , \pm 400 for CPCC07	$\pm 20 = 10 \ \Omega$ and above, $\pm 50 = 1.0 \ \Omega$ to 9.9 Ω , $\pm 90 = 0.1 \ \Omega$ to 0.99 Ω	± 50 all values, ± 400 for CPCF07
Short Time Overload	-	5 x rated power for 5 s			
Maximum Working Voltage	V	(P x R) ^{1/2}			
Operating Temperature Range	°C	- 65 to + 275		- 65 to + 225	
Terminal Strength	lb	10 minimum			
Dielectric Withstanding Voltage	V_{AC}	1000			



Pb containing terminations are not RoHS compliant, exemptions may apply

Document Number: 30218 Revision: 17-Feb-11

For technical questions, contact: www2aresistors@vishay.com

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

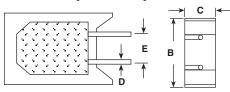
CPCL, CPCC, CPCP, CPCF

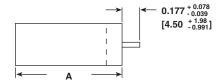
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Wirewound/Metal Film Resistors, Commercial Power, Vertical Mount



DIMENSIONS in inches [millimeters]





	DIMENSIONS in inches [millimeters]					
GLOBAL MODEL	A ± 0.031 [0.794]	B ± 0.031 [0.794]	C + 0.043 [1.09] - 0.012 [0.305]	D ± 0.005 [0.127]	E ± 0.040 [1.02]	
CPCL02, CPCC02 CPCP02, CPCF02	0.807 [20.50]	0.433 [11.00]	0.276 [7.01]	0.032 [0.813]	0.197 [5.00]	
CPCL03, CPCC03 CPCP03, CPCF03	0.984 [24.99]	0.472 [11.99]	0.315 [8.00]	0.032 [0.813]	0.197 [5.00]	
CPCL05, CPCC05 CPCP05, CPCF05	1.003 [25.48]	0.512 [13.00]	0.354 [8.99]	0.032 [0.813]	0.197 [5.00]	
CPCC07, CPCF07	1.535 ± 0.059 [39.00 ± 1.50]	0.512 ± 0.043 [13.00 ± 1.10]	0.354 ± 0.043 $[9.00 \pm 1.10]$	0.032 ± 0.005 [0.813 ± 0.127]	0.197 + 0.079/- 0.039 [5.00 + 2.0/- 1.0]	
CPCL10, CPCP10 CPCC10	1.372 [34.85]	0.633 [16.08]	0.485 [12.32]	0.040 [1.02] 0.036 [0.914]	0.290 [7.37]	

MATERIAL SPECIFICATIONS

Part Marking: DALE, model, wattage, value, tolerance, date code

CPCL: 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

CPCC: Element: Copper-nickel alloy or nickel-chrome

alloy, depending on resistance value

Core: Woven fiberglass (CPCC07 is alumina ceramic) **Body:** Steatite ceramic case with inorganic potting compound

End Caps: Tin plated steel **Terminals:** Tinned copper

CPCP: Element: Copper-nickel alloy or nickel-chrome

alloy, depending on resistance value

Core: Ceramic

Body: Steatite ceramic case with inorganic potting

compound

End Caps: Stainless steel
Terminals: Tinned Copperweld®

CPCF: Element: Metal film - nickel-chrome alloy (CPCF07

is nickel oxide)

Core: Alumina ceramic

Body: Steatite ceramic case with inorganic potting

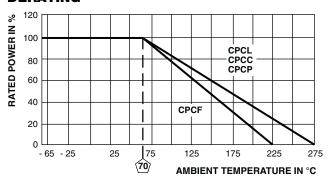
compound

End Caps: Brass alloy

Terminals: Solder-coated copper (CPCF07 is tinned

copper)

DERATING



Note

CPCC07 and CPCF07 deratings begin at 40 °C in lieu of 70 °C

PERFORMANCE					
TEST	CONDITIONS OF TEST	CPCP TEST LIMITS	CPCC, CPCL, CPCF TEST LIMITS		
Thermal Shock	- 55 °C to + 275 °C (+ 225 °C for CPCF), 5 cycles, 30 min dwell time	± (2.0 % + 0.05 Ω) ΔR	± (5.0 % + 0.05 Ω) ΔR		
Short Time Overload	5 x rated power for 5 s	\pm (2.0 % + 0.05 Ω) ΔR	\pm (4.0 % + 0.05 Ω) ΔR		
Dielectric Withstanding Voltage	1000 V _{RMS} for 1 min	\pm (0.1 % + 0.05 Ω) ΔR	\pm (2.0 % + 0.05 Ω) ΔR		
Low Temperature Storage	- 65 °C, full rated working voltage for 45 min	\pm (2.0 % + 0.05 Ω) ΔR	\pm (3.0 % + 0.05 Ω) ΔR		
Bias Humidity	75 °C, 90 % to 100 % RH, 240 h	\pm (2.0 % + 0.05 Ω) ΔR	$\pm (5.0 \% + 0.05 \Omega) \Delta R$		
Load Life	1000 h at rated power, + 40 °C, 1.5 h "ON", 0.5 h "OFF"	$\pm (5.0 \% + 0.05 \Omega) \Delta R$	$\pm (5.0 \% + 0.05 \Omega) \Delta R$		
Terminal Strength	5 s to 10 s 10 pound pull test	$\pm (1.0 \% + 0.05 \Omega) \Delta R$	$\pm (1.0 \% + 0.05 \Omega) \Delta R$		
Resistance to Solder Heat	Terminal immersed 3.5 s in molten solder up to body	$\pm (1.0 \% + 0.05 \Omega) \Delta R$	\pm (4.0 % + 0.05 Ω) ΔR		

For technical questions, contact: ww2aresistors@vishay.com
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