Vishay Dale



Wirewound Resistors, Commercial Power, Radial Terminals



Please reference the Vishay Dale CPR as an alternative option (for CPR datasheet please visit our website: <u>http://www.vishay.com/doc?30219</u>.

STANDARD ELECTRICAL SPECIFICATIONS					
GLOBAL MODEL	POWER RATING P ₇₀ ∘c W	$\begin{array}{c} \textbf{RESISTANCE RANGE} \\ \Omega \end{array}$			
		± 5 %, ± 10 %			
		TCR ± 600 ppm/°C	TCR ± 300 ppm/°C		
CPS04	4	R10 - R99	1R0 - 1K0		
CPS05	5	R10 - R99	1R0 - 2K0		
CPS07	6.5	R10 - R99	1R0 - 2K7		

FEATURES

- Direct mounting on printed circuit board
- Circuit board lock-in mounting tabs
- High performance for low cost



RoHS COMPLIANT

⁸¹²⁰ ¹⁰⁰ ¹⁰

Derating

TECHNICAL SPECIFICATIONS				
PARAMETER	UNIT	CPS CHARACTERISTICS		
Operating Temperature Range	°C	- 65 to + 350		
Short Time Overload	-	5 x rated power for 5 s		
Terminal Strength	lb	10 minimum		
Maximum Working Voltage	V	(P x R) ^{1/2}		

PERFORMANCE					
TEST	CONDITIONS OF TEST	TEST LIMITS			
Load Life	1000 h at rated power, 1.5 h "ON", 0.5 h "OFF"	\pm 3.0 % ΔR average			
Climatic Sequence	1000 cycles, - 55 °C to + 125 °C	± 2.0 % Δ <i>R</i>			
Damp Heat, Steady State	+ 40 °C, 93 % RH, 56 days	± 2.0 % Δ <i>R</i>			
Resistance to Solder Heat	+ 260 °C, 10 s	\pm 0.2 % ΔR typical			
Low Temperature Operation	- 65 °C, full rated working voltage for 45 min	± 3.0 % Δ <i>R</i>			



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



CPS

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DIMENSIONS in inches [millimeters]



MODEL	DIMENSIONS in inches [millimeters]			
MODEL	L	RM		
CPS04	0.945 ± 0.055 [24 ± 1.4]	0.598 [15.2]		
CPS05	1.350 ± 0.055 [34.3 ± 1.4]	1.000 [25.4]		
CPS07	1.752 ± 0.055 [44.5 ± 1.4]	1.398 [35.5]		

SURFACE TEMPERATURE





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