Vishay Dale



Metal Film Resistors, Industrial, ± 1 % and ± 5 % Tolerance



FEATURES

- 0.33 W power rating
- ± 100 ppm/°C standard, ± 50 ppm/°C available upon request



- Superior electrical performance
- Flame retardant epoxy conformal coating
- Standard 4 or 5 band color code marking for ease of identification after mounting



- Tape and reel packaging for automatic insertion (52.4 mm inside tape spacing per EIA-296-E)
- Compliant to RoHS directive 2002/95/EC

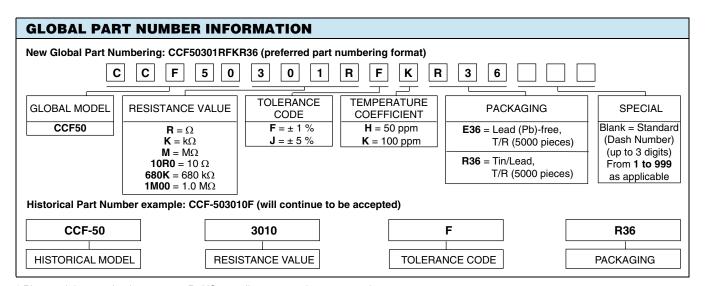
STANDARD ELECTRICAL SPECIFICATIONS								
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING P _{70 °C} W	MAXIMUM WORKING VOLTAGE ⁽²⁾ V	TEMPERATURE COEFF. (1) ± ppm/°C	TOLERANCE ± %	$\begin{array}{c} \textbf{RESISTANCE} \\ \textbf{RANGE} \\ \Omega \end{array}$	E-SERIES	
CCF50	CCF-50	0.33	200	100	1, 5	10 to 1M	96 for 1 % 24 for 5 %	

Notes

(1) 50 ppm/°C on request

(2) Continuous working voltage shall be $\sqrt{P \times R}$ or maximum working voltage, whichever is less.

TECHNICAL SPECIFICATIONS					
PARAMETER	UNIT	CCF50			
Rated Dissipation at 70 °C	W	0.33			
Maximum Working Voltage	V	≤ 200			
Insulation Voltage (1 Min)	V _{eff}	> 500			
Dielectric Strength	V _{AC}	450			
Insulation Resistance	Ω	≥ 10 ¹¹			
Operating Temperature Range	°C	- 65 to + 165			
Weight	g	0.11 max.			

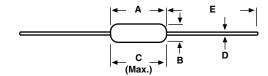


^{*} Pb containing terminations are not RoHS compliant, exemptions may apply

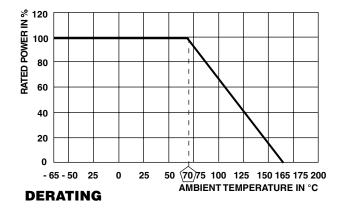


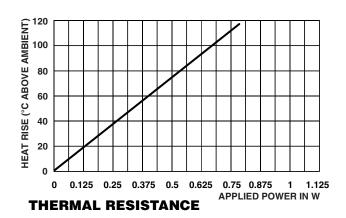
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DIMENSIONS in inches (millimeters)



DIMENSION	INCHES	MILLIMETERS
Α	0.133 ± 0.010	(3.3 ± 0.025)
В	0.062 ± 0.004	(1.57 ± 0.10)
C (Max.)	0.143	(3.63)
D	0.020 ± 0.002	(0.51 ± 0.05)
E	1.125 ± 0.040	(28.58 ± 1.02)





MARKING

- 5 band colorband for \pm 1 %

- 4 band colorband for ± 5 %

PERFORMANCE				
TEST (1)	MAXIMUM ΔR (TYPICAL TEST LOTS)			
Thermal Shock	± 0.1 %			
Short Time Overload	± 0.1 %			
Low Temperature Operation	± 0.1 %			
Moisture Resistance	± 0.2 %			
Resistance to Soldering Heat	± 0.05 %			
Shock	± 0.1 %			
Vibration	± 0.05 %			
Life	± 0.5 %			
Terminal Strength	± 0.1 %			
Dielectric Withstanding Voltage	± 0.05 %			

Note

(1) Tests per MIL-R-10509



Legal Disclaimer Notice

Vishay

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