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Vishay Dale

Document Number: 31014

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



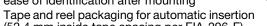
Product is End of Life Dec-2018 per PTN-DR-00011-2018, Rev 0

FEATURES

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



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



(52.4 mm inside tape spacing per EIA-296-E)

 Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

Note

This datasheet provides information about parts that are RoHS-compliant and / or parts that are non RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information / tables in this datasheet for details

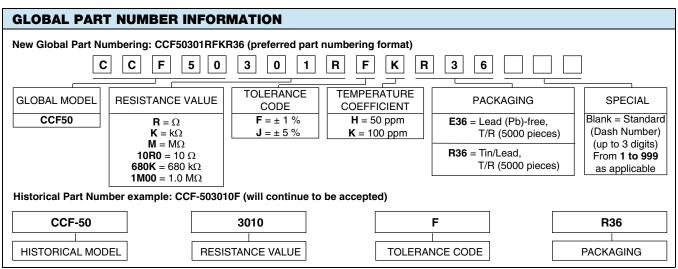
STANDARD ELECTRICAL SPECIFICATIONS							
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING P _{70 °C} W	MAXIMUM WORKING VOLTAGE (2) V	TEMPERATURE COEFF. (1) ± ppm/°C	TOLERANCE ± %	$\begin{array}{c} \textbf{RESISTANCE} \\ \textbf{RANGE} \\ \Omega \end{array}$	E-SERIES
CCF50	CCF-50	0.33	200	100	1, 5	10 to 1M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



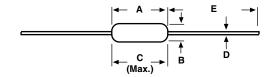
Revision: 17-Jul-2019

For additional information on packaging, refer to the Through-Hole Resistor Packaging document (www.vishay.com/doc?31544)

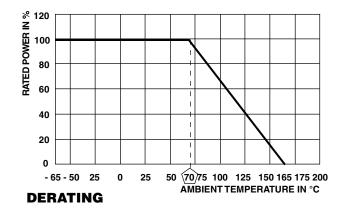


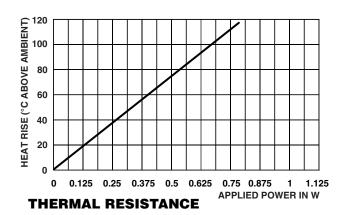
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DIMENSIONS in inches (millimeters)



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

Color code marking with 5 color bands for \pm 1 % product and 4 color bands for \pm 5 % product

PERFORMANCE		
TEST (1)	MAXIMUM AR (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



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