

Vishay Dale

RoHS

FREE

Metal Film Resistors, Industrial Power, Flameproof



FEATURES

- Small size suitable for 1/2 W, 1 W and 2 W applications
- High power rating, small size
- Flameproof, high temperature coating meets EIA RS-325-A
- Excellent high frequency characteristics
- Low noise
- Low voltage coefficient
- COMPLIANT Tape and reel packaging for automatic insertion (52.4 mm inside tape spacing per EIA-296-E) HALOGEN
- Material categorization: For definitions of compliance please see <u>www.vishay.com/doc?99912</u>

Lead (Pb)-containing terminations are not RoHS-compliant. Exemptions may apply.

STANDARD ELECTRICAL SPECIFICATIONS								
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING P _{70 °C} W	MAXIMUM WORKING VOLTAGE ⁽¹⁾ V	TEMPERATURE COEFFICIENT ± ppm/°C	TOLERANCE ± %	RESISTANCE RANGE Ω	E-SERIES	
CCF02	CCF-2	2.0	350	100	1, 5	4.99 to 1M	96 for 1 % tolerance 24 for 5 % tolerance	

Note (1) Continuous working voltage shall be $\sqrt{P \times R}$ or maximum working voltage, whichever is less.

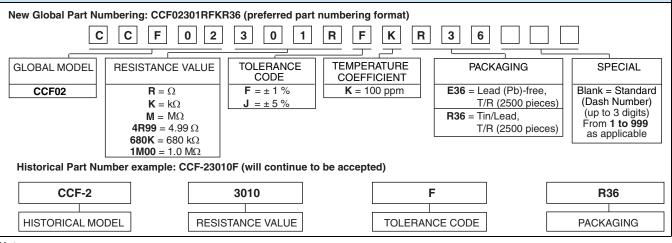
TECHNICAL SPECIFICATIONS					
PARAMETER	UNIT	CCF02			
Rated Dissipation at 70 °C	W	2.0			
Maximum Working Voltage	V	≤ 350			
Insulation Voltage (1 Min)	V _{eff}	> 500			
Dielectric Strength	V _{AC}	900			
Insulation Resistance	Ω	≥ 10 ¹¹			
Operating Temperature Range	°C	- 65/+ 230			
Terminal Strength (Pull Test)	lb	2			
Failure Rate	10 ⁻⁹ /h	< 1			
Weight (Max.)	g	0.35			

MATERIAL SPECIFICATIONS					
Element	Proprietary nickel-chrome film				
Solderability	Satisfactory per MIL-STD-202, Method 208.				
Core	Fire-cleaned high purity ceramic				
Termination	Standard lead material is solder-coated copper. Solderable and weldable per MIL-STD-1276, Type C.				

MARKING

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

GLOBAL PART NUMBER INFORMATION



Note

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

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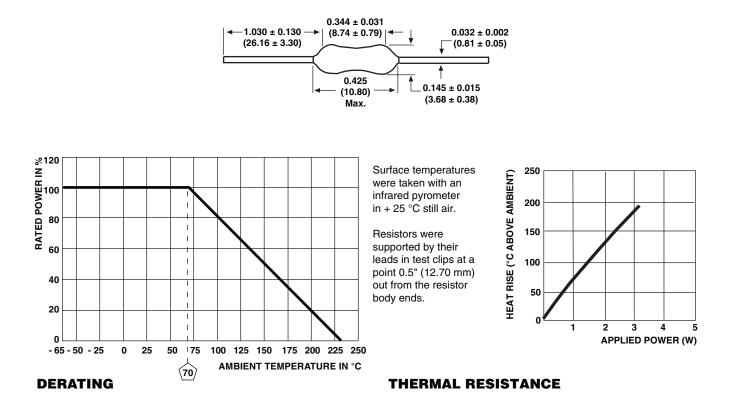
Note



CCF02 (CCF-2)

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DIMENSIONS in inches (millimeters)



PERFORMANCE				
TEST	MAX. ΔR (TYPICAL TEST LOTS)			
Thermal Shock	± 1.0 %			
Short Time Overload	± 0.5 %			
Low Temperature Operation	± 0.5 %			
Moisture Resistance	± 1.5 %			
Resistance to Soldering Heat	± 0.5 %			
Shock	± 0.5 %			
Vibration	± 0.5 %			
Terminal Strength	± 0.5 %			
Dielectric Withstanding Voltage	± 0.5 %			
Life	± 2.0 %			



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