

Metal Film Resistors, Industrial, ± 2 % and ± 5 % Tolerance



FEATURES

- 0.25 watt at + 70 °C power rating
Dual rated for 0.5 watt
- ± 2 % and ± 5 % tolerance
- ± 100 ppm/°C and ± 200 ppm/°C temperature coefficient
- Tape and reel packaging for automatic insertion (52.4 mm inside tape spacing per EIA-296-E)
- Flame retardant epoxy conformal coating
- Standard 4 band color code marking for ease of identification after mounting
- Lead-(Pb)-free version is RoHS compliant



RoHS* COMPLIANT

STANDARD ELECTRICAL SPECIFICATIONS

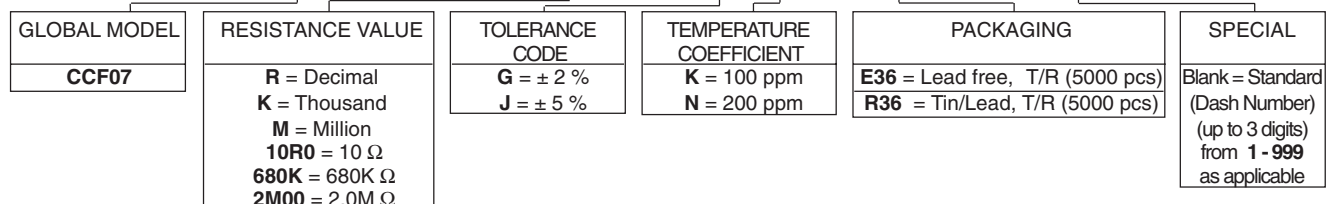
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING P _{70 °C} W	LIMITING ELEMENT VOLTAGE MAX. V _≅	TEMPERATURE COEFFICIENT ppm/°C	TOLERANCE %	RESISTANCE RANGE Ω	E-SERIES
CCF07	CCF-07	0.25 / 0.5	250	± 100	± 2, ± 5	10R - 1M	24
CCF07	CCF-07	0.25 / 0.5	250	± 200	± 5	1.1M - 2M	24

TECHNICAL SPECIFICATIONS

PARAMETER	UNIT	CCF07
Rated Dissipation at 70 °C	W	0.25 / 0.5
Maximum Working Voltage	V _≅	≤ 250
Insulation Voltage (1 min)	V _{eff}	500
Dielectric Strength	VAC	450
Insulation Resistance	Ω	≥ 10 ¹¹
Operating Temperature Range	°C	- 65 / + 150
Terminal Strength (pull test)	lb	2
Weight	g	0.35 max

GLOBAL PART NUMBER INFORMATION

New Global Part Numbering: CCF07240RGK R 36 (preferred part numbering format)

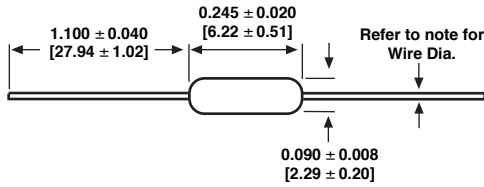


Historical Part Number example: CCF-07241G (will continue to be accepted)



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

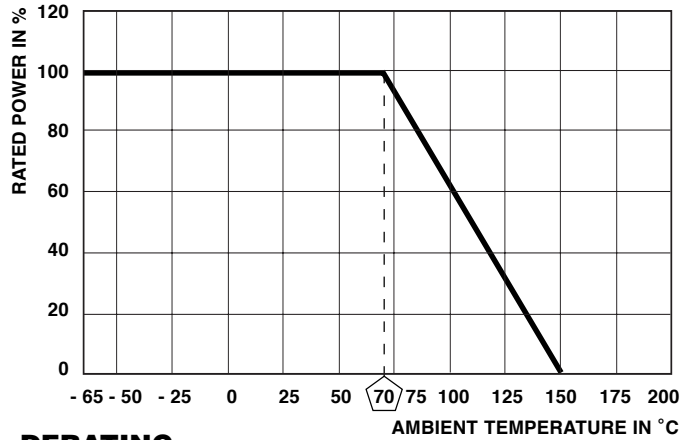
DIMENSIONS in inches [millimeters]



*Note: Wire Dia.

CCF07 (Sn/Pb) = 0.025 ± 0.002 [0.64 ± 0.05]

CCF07 (Sn) = 0.023 ± 0.002 [0.60 ± 0.05]



DERATING

MARKING	
- Color band	

RESISTANCE VALUES			
Vishay Dale Model CCF07 is available in the standard 24 resistance values per decade. Values are obtained from the following decade table by multiplying by powers of 10. As an example: 24 can represent 24 ohm, 240 ohm, 2.4 kohm, 24 kohm or 240 kohm.			
10	18	33	56
11	20	36	62
12	22	39	68
13	24	43	75
15	27	47	82
16	30	51	91

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 / Bump	± 0.5 %
Vibration	± 0.5 %
Terminal Strength	± 0.5 %
Dielectric Withstanding Voltage	± 0.5 %
Life	± 1.5 %**

* Test Methods per MIL-STD-202G/IEC 60115/DIN EN 140000 (as applicable).

** Life ΔR is ± 2.0 % for 1/2 watt rating.



Notice

Specifications of the products displayed herein are subject to change without notice. Vishay Intertechnology, Inc., or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Vishay's terms and conditions of sale for such products, Vishay assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of Vishay products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Vishay for any damages resulting from such improper use or sale.