CCF07

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ROHS COMPLIANT

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

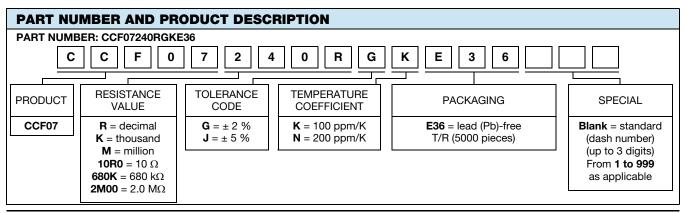


FEATURES

- Dual power rating: $P_{70} = 0.25$ W with 1.5 % stability $P_{70} = 0.50$ W with 2.0 % stability
- ± 2 % and ± 5 % tolerance
- Temperature coefficient: ± 100 ppm/K and ± 200 ppm/K
- Tape and reel packaging for automatic insertion (52.4 mm inside tape spacing per EIA-296-E)
- Flame retardant epoxy conformal coating (red brown color)
- Standard 4 band color code marking for ease of identification after mounting
- Pure tin plating provides compatibility with lead (Pb)-free and lead containing soldering processes
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

STANDARD ELECTRICAL SPECIFICATIONS						
PRODUCT	POWER RATING P ₇₀ W	LIMITING ELEMENT VOLTAGE MAX. V≅	TEMPERATURE COEFFICIENT ± ppm/K	TOLERANCE ± %	RESISTANCE RANGE Ω	E-SERIES
CCF07	0.25	250	100	2, 5	10 to 1M	E24
CCF07	0.5	250	100	2, 5	10 to 1M	E24
CCF07	0.25	250	200	5	1.1M to 2M	E24
CCF07	0.5	250	200	5	1.1M to 2M	E24

TECHNICAL SPECIFICATIONS			
PARAMETER	UNIT	CCF07	
Rated Dissipation, P70	W	0.25/0.5	
Maximum Working Voltage, Umax.	V≅	≤ 250	
Insulation Voltage (1 min)	V _{eff}	500	
Dielectric Strength	V _{AC}	450	
Insulation Resistance	Ω	≥ 10 ¹¹	
Operating Temperature Range	°C	-65 to +150	
Terminal Strength (pull test)	lb	2	
Weight	g	0.35 max.	



Revision: 18-Dec-14

1 For technical questions, contact: <u>filmresistorsleaded@vishay.com</u> Document Number: 31013

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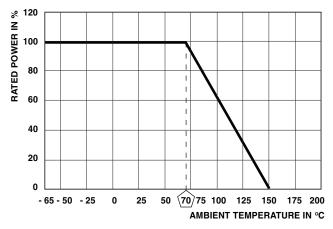
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DIMENSIONS in inches (millimeters)

PRODUCT	Α	В	C (Max.)	D	E
CCF07	0.245 ± 0.020 (6.22 ± 0.51)	0.090 ± 0.008 (2.29 ± 0.20)	0.295 (7.5)	0.022 ± 0.002 (0.58 ± 0.05)	1.100 ± 0.040 (27.94 ± 1.02)

DERATING



MARKING

 $| A \rightarrow | E \rightarrow |$

The nominal resistance and tolerance are marked on the resistor using four colored bands in accordance with IEC 60062, marking codes for resistors and capacitors.

RESISTANCE VALUES

Vishay 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 Ω , 240 Ω , 2.4 k Ω , 24 k Ω or 240 k Ω .

, ,	,		
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 ⁽¹⁾	MAX. ∆R (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 % ⁽²⁾		

Notes

⁽¹⁾ Test specifications as per IEC 60115-1

⁽²⁾ Life ΔR is ± 2.0 % for 1/2 W rating



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FRN25J330R FRN50J1R0S H4100RBYA H415RBZA H41K1BYA H41K5BYA H41M0BDA H420R5BCA H421R5BZA H4221RBYA H424K3BDA H442K2BDA H45K62BZA H4634RBZA H473R2BZA H4931KBZA H8160KFDA H8274KBZA H82K0FDA H82K0FZA H87K5DYA RLR05C6201GS HR01623J HR01682J 270-1.69M-RC LR0204F110R LR0204F18R LR0204F20K LR0204F20R LR0204F510R LR1F121R LR1F133K LR1F383R LR1F3K01 LR1F4K75 LR2F330RJIT LR2F910R ERX-2SZJR20E SQMR5390RJ SQMR74K7J SQPR533KJ FMF-25FTF52-100K FRN50J100RS FRN50J470RS H4100RBZA H414R3BZA H415KBYA H4174KBZA H4174RBDA H41K21BYA