

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



FEATURES

Dual power rating:
P₇₀ = 0.25 W with 1.5 % stability
P₇₀ = 0.50 W with 2.0 % stability

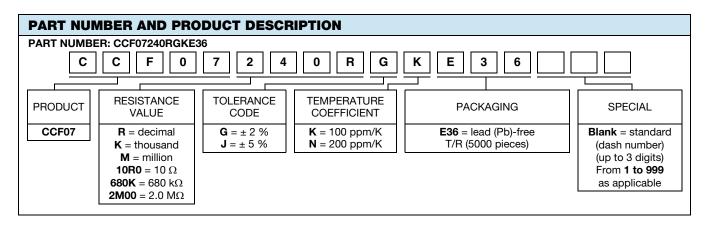


RoHS COMPLIANT

- ± 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.vishav.com/doc?99912</u>

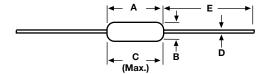
STANDAR	STANDARD ELECTRICAL SPECIFICATIONS					
PRODUCT	POWER RATING P ₇₀ W	LIMITING ELEMENT VOLTAGE MAX.	TEMPERATURE COEFFICIENT ± ppm/K	TOLERANCE ± %	$\begin{array}{c} \textbf{RESISTANCE} \\ \textbf{RANGE} \\ \Omega \end{array}$	E-SERIES
CCF07	0.25	250	100	2, 5	10 to 1M	E24
CCF07	0.5	250	100	2, 5	10 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, P ₇₀	W	0.25/0.5	
Maximum Working Voltage, U _{max.}	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.	



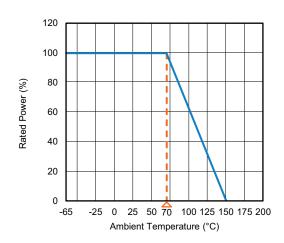


DIMENSIONS in inches (millimeters)



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

DERATING



MARKING

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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