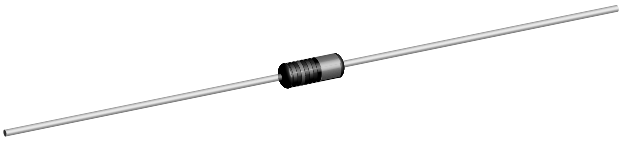
Metal Film Resistors, Industrial, ± 2 % and ± 5 % Tolerance



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
- Compliant to RoHS directive 2002/95/EC

Pb-free
RoHS
COMPLIANT

STANDARD ELECTRICAL SPECIFICATIONS

PRODUCT	RATED DISSIPATION P_{70} W	LIMITING ELEMENT VOLTAGE MAX. V≅	TEMPERATURE COEFFICIENT ppm/K	TOLERANCE %	RESISTANCE RANGE Ω	E-SERIES
CCF07	0.25/0.5	250	± 100	± 2, ± 5	10 Ω to 1 MΩ	E24
CCF07	0.25/0.5	250	± 200	± 5	1.1 MΩ to 2 MΩ	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.

PART NUMBER AND PRODUCT DESCRIPTION

Part Number: CCF07240RGKE36

C	C	F	0	7	2	4	0	R	G	K	E	3	6			

PRODUCT	RESISTANCE VALUE	TOLERNACE CODE	TEMPERATURE COEFFICIENT	PACKAGING	SPECIAL
CCF07	**R** = Decimal **K** = Thousand **M** = Million **10R0** = 10 Ω **680K** = 680 kΩ **2M00** = 2.0 MΩ	**G** = ± 2 % **J** = ± 5 %	**K** = 100 ppm/K **N** = 200 ppm/K	**E36** = Lead (Pb)-free T/R (5000 pieces)	**Blank** = Standard (dash number) (up to 3 digits) From **1 to 999** as applicable

For technical questions, contact: filmresistorsleaded@vishay.com
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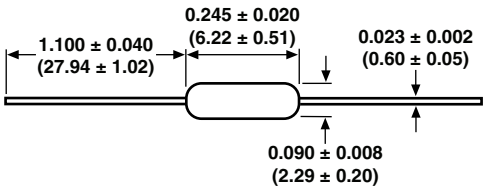
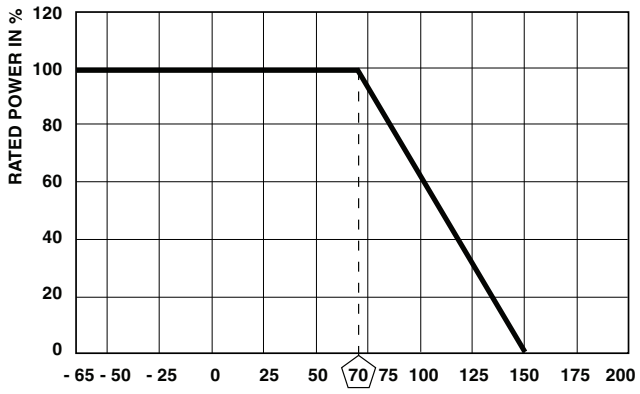
Revision: 24-Sep-10

DIMENSIONS in inches (millimeters)





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 kΩ, 24 kΩ or 240 kΩ.

10	18	33	56
11	20	36	62
12	22	39	68
13	24	43	75
15	27	47	82
16	30	51	91

TECHNICAL SPECIFICATIONS

TEST [1]	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 % [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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Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as Halogen-Free follow Halogen-Free requirements as per JEDEC JS709A standards. Please note that some Vishay documentation may still make reference to the IEC 61249-2-21 definition. We confirm that all the products identified as being compliant to IEC 61249-2-21 conform to JEDEC JS709A standards.

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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

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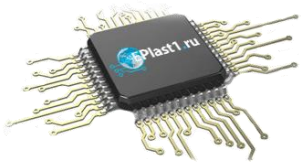
- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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