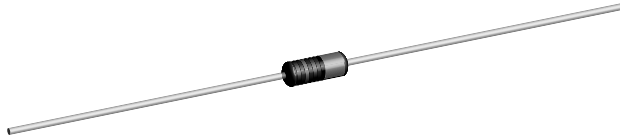


Metal Film Resistors, Industrial, $\pm 2\%$ and $\pm 5\%$ Tolerance



FEATURES

- 0.25 watt at + 70 °C power rating
Dual rated for 0.5 watt
- $\pm 2\%$ and $\pm 5\%$ 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 $P_{70\text{ }^{\circ}\text{C}}$ W	LIMITING ELEMENT VOLTAGE MAX. V_{\approx}	TEMPERATURE COEFFICIENT ppm/°C	TOLERANCE %	RESISTANCE RANGE Ω	E-SERIES
CCF07	CCF-07	0.25 / 0.5	250	± 100	$\pm 2, \pm 5$	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_{\approx}	≤ 250
Insulation Voltage (1 min)	V_{eff}	500
Dielectric Strength	VAC	450
Insulation Resistance	Ω	$\geq 10^{11}$
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: CCF07240RGKR36 (preferred part numbering format)

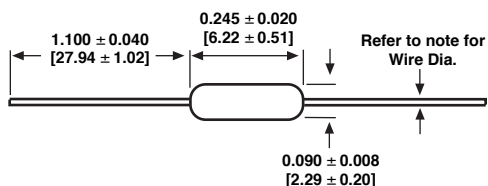
C	C	F	0	7	2	4	0	R	G	K	R	3	6			
GLOBAL MODEL		RESISTANCE VALUE			TOLERANCE CODE		TEMPERATURE COEFFICIENT		PACKAGING			SPECIAL				
CCF07		R = Decimal K = Thousand M = Million 10R0 = 10 Ω 680K = 680K Ω 2M00 = 2 0M Ω			G = ± 2 % J = ± 5 %		K = 100 ppm N = 200 ppm		E36 = Lead free, T/R (5000 pcs) R36 = Tin/Lead, T/R (5000 pcs)			Blank = Standard (Dash Number) (up to 3 digits) from 1 -999 as applicable				

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

CCF-07	241	G	R36
HISTORICAL MODEL	RESISTANCE VALUE	TOLERANCE CODE	PACKAGING

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

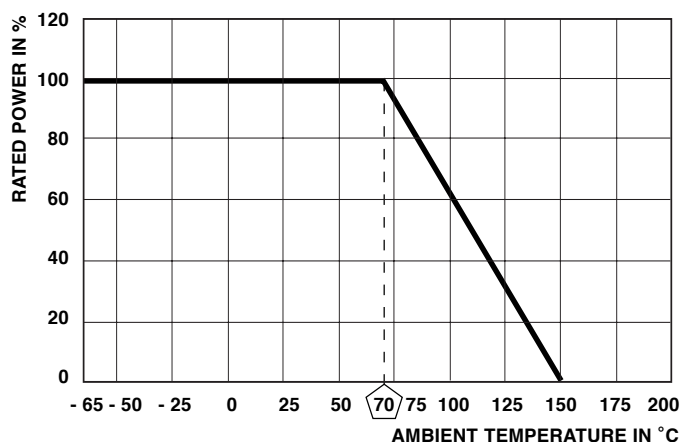
DIMENSIONS in inches [millimeters]



*Note: Wire Dia.

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

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



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.



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