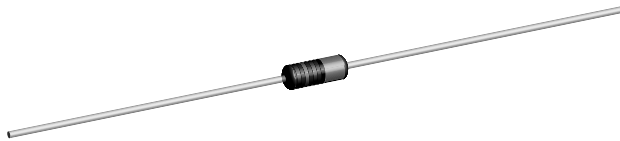


**Metal Film Resistors, Industrial, ± 2% and ± 5% Tolerance**



**FEATURES**

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

**STANDARD ELECTRICAL SPECIFICATIONS**

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

**TECHNICAL SPECIFICATIONS**

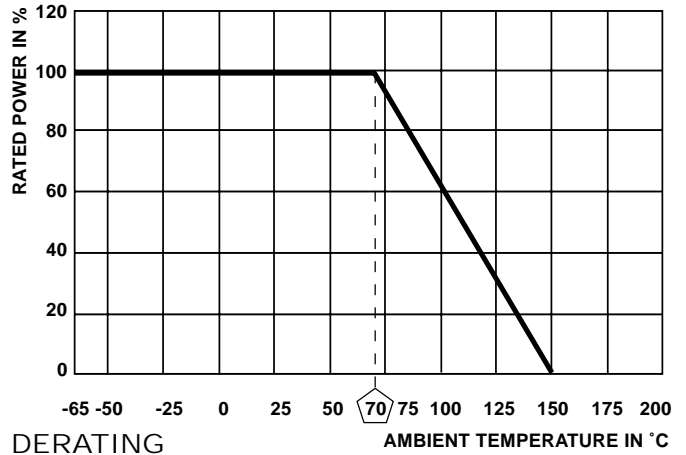
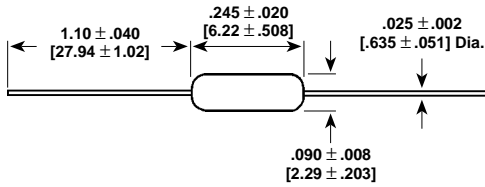
PARAMETER	UNIT	CCF-07
Rated Dissipation at 70°C	W	0.25 / 0.5
Maximum Working Voltage	V <sub>≅</sub>	≤250
Insulation Voltage (1min)	V <sub>eff</sub>	500
Dielectric Strength	VAC	450
Insulation Resistance	Ω	≥10 <sup>11</sup>
Operating Temperature Range	°C	-65 / +150
Terminal Strength (pull test)	lb	2
Weight	g	0.35 max

**ORDERING INFORMATION**

<b>CCF-07</b> MODEL	<b>241</b> RESISTANCE	<b>G</b> TOLERANCE
	First two digits are significant figures. Last digit specifies the number of zeros to follow.	G = ± 2% J = ± 5%



DIMENSIONS in inches [millimeters]



MARKING
— Colorband

RESISTANCE VALUES			
Vishay Dale Model CCF-07 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 kilohm, 24 kilohm or 240 kilohm.			
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	± 0.5%
Vibration	± 0.5%
Terminal Strength	± 0.5%
Dielectric Withstanding Voltage	± 0.5%
Life	± 1.5%**

\* Test Methods per MIL-STD-202.  
 \*\* Life ΔR is ± 2.0% for 1/2 watt rating.