

Metal Film Leaded Resistors, Industrial, ± 1 % Tolerance

FEATURES

Dual power rating:
P₇₀ = 0.25 W with 0.5 % stability
P₇₀ = 0.50 W with 1.0 % stability



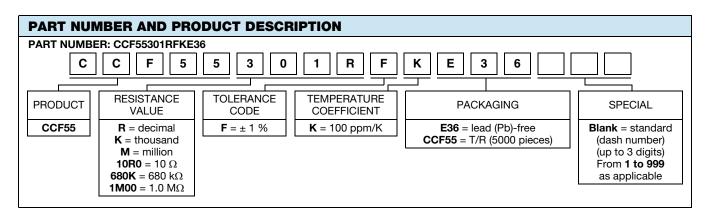




- Superior electrical performance
- Flame retardant epoxy conformal coating (red brown color)
- Standard 5 band color code marking for ease of identification after mounting
- Tape and reel packaging for automatic insertion (52.4 mm inside tape spacing per EIA-296-E)
- Lead (Pb)-free solder contacts
- 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	
CCF55	0.25	250	100	1	10 to 3.01M	E96	
CCF55	0.5	250	100	1	10 to 3.01M	E96	

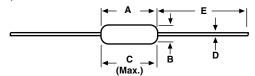
TECHNICAL SPECIFICATIONS				
PARAMETER	UNIT	CCF55		
Rated Dissipation, P ₇₀	W	0.25/0.5		
Maximum Working Voltage, U _{max.}	V≅	≤ 250		
Insulation Voltage (1 min)	V _{eff}	500		
Dielectric Strength	V _{AC}	450		
Insulation Resistance	Ω	≥ 10 ¹¹		
Operating Temperature Range	°C	-65 to +165		
Terminal Strength (pull test)	lb	2		
Weight	g	0.35 max.		



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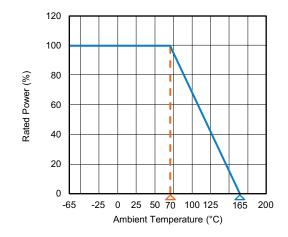
DIMENSIONS in inches (millimeters)



PRODUCT	Α	В	C (Max.)	D	E
CCF55	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)

RESISTANCE VALUES Vishay CCF55 is available in the standard 96 resistance values per decade. Values are obtained from the following decade table by multiplying by powers of 10. As an example: 30.1 can represent 30.1 Ω , 301 Ω , 3.01 $k\Omega$, 30.1 $k\Omega$ or 301 $k\Omega$. 10.0 14.7 21.5 31.6 46.4 68.1 10.2 15.0 22.1 32.4 47.5 69.8 10.5 22.6 33.2 48.7 15.4 71.5 10.7 23.2 34.0 49.9 73.2 15.8 23.7 34.8 51.1 75.0 11.0 16.2 11.3 16.5 24.3 35.7 52.3 76.8 53.6 11.5 16.9 24.9 36.5 78.7 11.8 17.4 25.5 37.4 54.9 80.6 12.1 26.1 38.3 56.2 82.5 17.8 12.4 18.2 26.7 39.2 57.6 84.5 12.7 18.7 27.4 40.2 59.0 86.6 13.0 19.1 28.0 41.2 60.4 88.7 13.3 28.7 42.2 61.9 90.9 19.6 13.7 20.0 29.4 43.2 63.4 93.1 30.1 64.9 14.0 20.5 44.2 95.3 14.3 21.0 30.9 45.3 66.5 97.6

DERATING



MARKING

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

PERFORMANCE				
RATED DISSIPATION, P ₇₀				
CCF55	1/4 W	1/2 W		
TEST (1)	MAXIMUM ∆R	MAXIMUM ∆R		
Thermal Shock	± 0.5 %	-		
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 %	-		
Life	± 0.5 %	± 1.0 %		
Terminal Strength	± 0.2 %	-		
Dielectric Withstanding Voltage	± 0.5 %	-		

Note

⁽¹⁾ Test specifications as per IEC 60115-1



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Vishay

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