

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



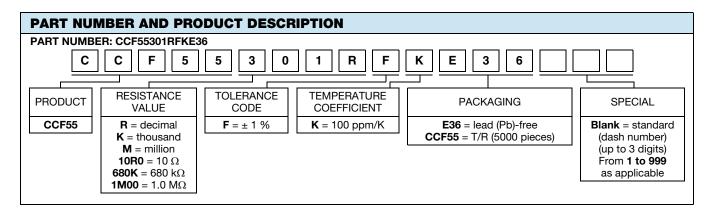




- Superior electrical performance
- Flame retardant epoxy conformal coating (red brown color)
- Standard 5 band color code marking for ease of identification after mounting
- Tape and reel packaging for automatic insertion (52.4 mm inside tape spacing per EIA-296-E)
- Lead (Pb)-free solder contacts
- 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>

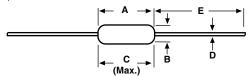
STANDAR	STANDARD ELECTRICAL SPECIFICATIONS						
PRODUCT	POWER RATING P ₇₀ W	LIMITING ELEMENT VOLTAGE MAX. V≅	TEMPERATURE COEFFICIENT ± ppm/K	TOLERANCE ± %	RESISTANCE RANGE Ω	E-SERIES	
CCF55	0.25	250	100	1	10 to 3.01M	E96	
CCF55	0.5	250	100	1	10 to 3.01M	E96	

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.	





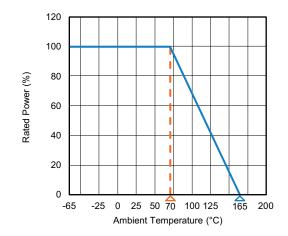
DIMENSIONS in inches (millimeters)



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 , 301 k Ω , 30.1 k Ω or 301 k Ω .					
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	15.4	22.6	33.2	48.7	71.5
10.7	15.8	23.2	34.0	49.9	73.2
11.0	16.2	23.7	34.8	51.1	75.0
11.3	16.5	24.3	35.7	52.3	76.8
11.5	16.9	24.9	36.5	53.6	78.7
11.8	17.4	25.5	37.4	54.9	80.6
12.1	17.8	26.1	38.3	56.2	82.5
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	19.6	28.7	42.2	61.9	90.9
13.7	20.0	29.4	43.2	63.4	93.1
14.0	20.5	30.1	44.2	64.9	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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