Vishay



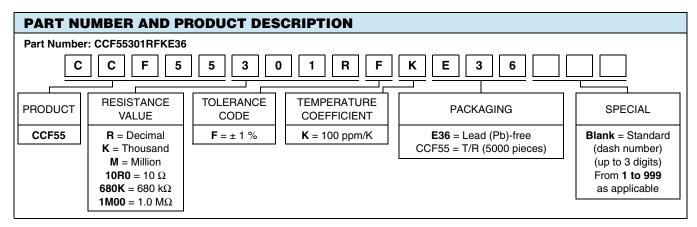
Metal Film Resistors, Industrial, ± 1 % Tolerance

FEATURES

- Dual power rating: $P_{70} = 0.25$ W with 0.5 % stability $P_{70} = 0.50$ W with 1.0 % stability
- Temperature coefficient: ± 100 ppm/K
- 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
- Compliant to RoHS directive 2002/95/EC

STANDA		CTRICAL SPECIFICATIONS				
PRODUCT	RATED DISSIPATION P ₇₀ W	LIMITING ELEMENT VOLTAGE MAX. V≅	TEMPERATURE COEFFICIENT ppm/K	TOLERANCE %	RESISTANCE RANGE Ω	E-SERIES
CCF55	0.25/0.5	250	± 100	± 1	10 Ω to 3.01 $M\Omega$	E96

TECHNICAL SPECIFICATIONS		
PARAMETER	UNIT	CCF55
Rated Dissipation, P ₇₀	W	0.25/0.5
Maximum Working Voltage, Umax.	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.





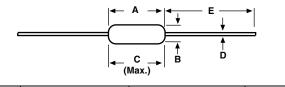


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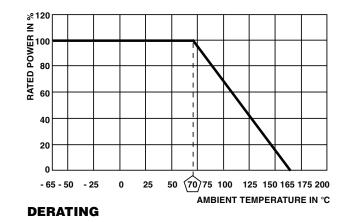
CCF55

DIMENSIONS in inches (millimeters)



PRODUCT	А	В	C (Max.)	D	E
CCF55	0.245 ± 0.020	0.090 ± 0.008	0.265	0.023 ± 0.002	1.100 ± 0.040
	(6.22 ± 0.51)	(2.29 ± 0.20)	(6.73)	(0.60 ± 0.05)	(27.94 ± 1.02)

RESIS	TANCE	VALUE	S		
per deca table by	ade. Values multiplying	ailable in the are obtain by powers o 1 Ω, 3.01 kg	ned from th of 10. As a	ne following n example:	g decade
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



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, P70				
CCF55	1/4 W	1/2 W		
TEST ⁽¹⁾	MAXIMUM A R	MAXIMUM AR		
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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