

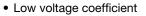


Metal Film Resistors, Axial, Industrial Power, Precision, Flameproof



FEATURES

- High power rating, small size
- Flameproof, high temperature silicone coating
- · Special filming and coating processes
- · Excellent high frequency characteristics
- Low noise









Note

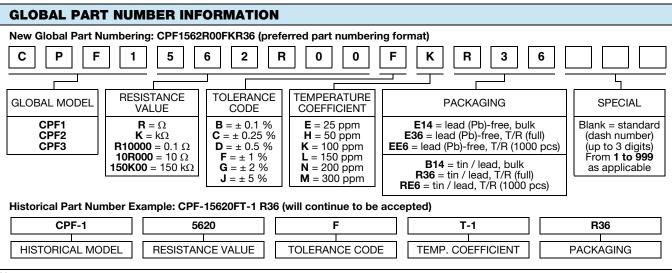
* This datasheet provides information about parts that are RoHS-compliant and/or parts that are non RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information / tables in this datasheet for details

STANDARD ELECTRICAL SPECIFICATIONS						
GLOBAL MODEL	HISTORICAL MODEL	MAXIMUM WORKING VOLTAGE (1) V	POWER RATING P _{70 °C} W	RESISTANCE RANGE Ω	TOLERANCE ± %	TEMPERATURE COEFFICIENT ± ppm/°C
				5 to 150K	0.1, 0.25, 0.5, 1	25
				5 to 150K	0.1, 0.25, 0.5, 1, 2, 5	50
				1 to 150K	0.5, 1, 2, 5	100
CPF1	CPF-1	250	1	0.5 to 150K	1, 2, 5	150
				0.5 to 150K	1	200
				0.2 to 150K	2, 5	200
				0.1 to 150K	2, 5	300
	CPF-2	350	2	5 to 150K	0.1, 0.25, 0.5, 1	25
				5 to 150K	0.1, 0.25, 0.5, 1, 2, 5	50
				1 to 150K	0.5, 1, 2, 5	100
CPF2				0.5 to 150K	1, 2, 5	150
				0.5 to 150K	1	200
				0.2 to 150K	2, 5	200
				0.1 to 150K	2, 5	300
				8 to 150K	0.1, 0.25, 0.5, 1	25
	CPF-3	500	3	8 to 150K	0.1, 0.25, 0.5, 1, 2, 5	50
				1 to 150K	0.5, 1, 2, 5	100
CPF3				1 to 150K	1, 2, 5	150
				1 to 150K	1	200
				0.2 to 150K	2, 5	200
				0.1 to 150K	2, 5	300

Note

⁽¹⁾ Continuous working voltage shall be $\sqrt{P \times R}$ or maximum working voltage, whichever is less





Note

• For additional information on packaging, refer to the Through-Hole Resistor Packaging document (www.vishay.com/doc?31544)

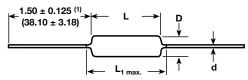
TEMPERATURE COEFFICIENT CODES				
GLOBAL TC CODE	HISTORICAL TC CODE	TEMPERATURE COEFFICIENT		
E	T-9	25 ppm/°C		
Н	T-2	50 ppm/°C		
K	T-1	100 ppm/°C		
L	T-0	150 ppm/°C		
N	T-00	200 ppm/°C		
M	M	300 ppm/°C		

TECHNICAL SPECIFICATIONS				
PARAMETER	UNIT	CPF1	CPF2	CPF3
Rated Dissipation at 70 °C	W	1	2	3
Limiting Element Voltage (1)	V≅	250	350	500
Insulation Voltage	V _{eff}	900	900	900
Thermal Resistance	K/W	85	60	50
Insulation Resistance	Ω		10 ¹⁰	
Category Temperature Range	°C		-65 °C / +230 °C	

Note

(1) Rated voltage $\sqrt{P \times R}$

DIMENSIONS



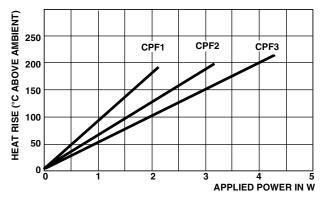
Note

(1) Lead length for product in bulk pack. For product supplied in tape and reel, the actual lead length would be based on the body size, tape spacing and lead trim

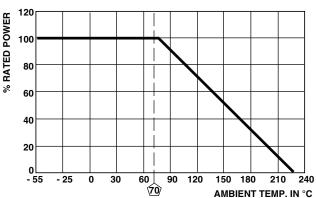
GLOBAL	DIMENSIONS in inches (millimeters)				
MODEL	L	D	L _{1 max.}	d	
CPF1	0.240 ± 0.020 (6.10 ± 0.51)	0.090 ± 0.008 (2.29 ± 0.20)	0.310 (7.87)	0.025 ± 0.002 (0.64 ± 0.05)	
CPF2	0.344 ± 0.031 (8.74 ± 0.79)	0.145 ± 0.015 (3.68 ± 0.38)	0.425 (10.80)	0.032 ± 0.002 (0.81 ± 0.05)	
CPF3		0.180 ± 0.015 (4.57 ± 0.381)		0.032 ± 0.002 (0.81 ± 0.05)	



THERMAL RESISTANCE



DERATING



Note

 Surface temperatures were taken with an infrared pyrometer in +25 °C still air. Resistors were supported by their leads in test clips at a point 0.500" (12.70 mm) out from the resistor body ends

MATERIAL SPECIFICATIONS			
Element	Proprietary nickel-chrome alloy		
Core	Cleaned high purity ceramic		
Coating	Special high temperature conformal coat		
Termination	Standard lead material is solder-coated Solderable and weldable per MIL-STD-1276, type C		

MECHANICAL SPECIFICATIONS			
Terminal Strength	2 pound pull test		
Solderability	Continuous satisfactory coverage when tested in accordance with MIL-STD-202, method 208		

MARKING

Temperature Coefficient: T00 = 200 ppm, T0 = 150 ppm, T1 = 100 ppm, T2 = 50 ppm, T9 = 25 ppm, M = 300 ppm

CPF1, CPF2, CPF3: (5 lines)

DALE Manufacturer's name CPF-1 Style and size

49.9 k Ω Value

1 % T2 Tolerance and TC 1208 4-digit date code

PERFORMANCE			
TEST	MAX. △R (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	± 2.0 %		



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