Vishay Dale



Metal Film Resistors, Industrial, Power, Flameproof



FEATURES

- · High power rating, small size
- · Flameproof, high temperature coating
- · Special filming and coating processes
- · Excellent high frequency characteristics
- · Low noise
- · Low voltage coefficient
- · Lead (Pb)-Free Version is RoHS Compliant





RoHS*

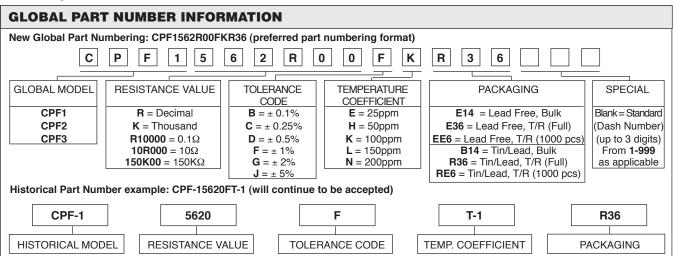
STANI	TANDARD ELECTRICAL SPECIFICATIONS								
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING	LIMITING ELEMENT		ı	RESISTANCE I	RANGE Ω		
0222	MODEL	P _{70°C}	VOLTAGE	0.1% - 1%	0.1% - 5%	0.5% - 5%	1% - 5%	1%	2% - 5%
		W	V≅	25ppm	50ppm	100ppm	150ppm	200ppm	200ppm
CPF1	CPF-1	1	250	5 - 150K	5 - 150K	1 - 150K	R5 - 150K	R5 - 150K	R1 - 150K
CPF2	CPF-2	2	350	5 - 150K	5 - 150K	1 - 150K	R5 - 150K	R5 - 150K	R1 - 150K
CPF3	CPF-3	3	500	8 - 150K	8 - 150K	1 - 150K	1 - 150K	1 - 150K	R1 - 150K

[·] Marking: Print marked - DALE, Model, Resistance value, Tolerance / Temperature Coefficient, Date Code

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	

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-	900	900	900
Thermal Resistance	K/W	85	60	50
Insulation Resistance	Ω		10 ¹⁰	
Category Temperature Range	°C	- 65°C / + 230°C		

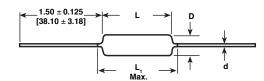
¹⁾Rated voltage $\sqrt{P \times R}$



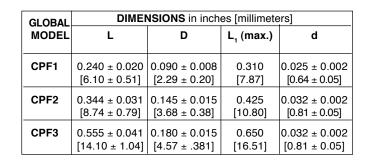
^{*} Pb containing terminations are not RoHS compliant, exemptions may apply.

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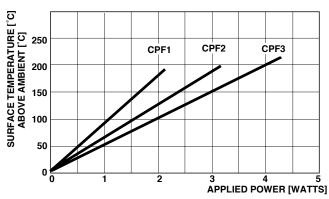
DIMENSIONS



^{* 1.08} \pm 0.125 [27.43 \pm 3.18] IF TAPE AND REEL



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 .500" [12.70mm] out from the resistor body ends.



SURFACE TEMPERATURE VS POWER

🔪
90 120 150 180 210 240
MBIENT TEMP. IN °C

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.
Tommur ou ongun	2 pound pain toot.
Solderability:	Continuous satisfactory coverage when
	tested in accordance with
	MIL -STD - 202, Method 208

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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Vishay

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