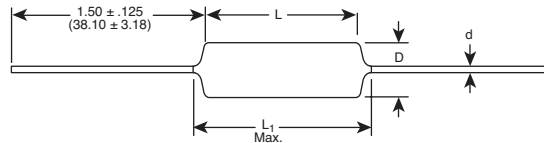


VISHAY/DALE Metal Film Resistors - 1, 2 and 3 Watt

CPF SERIES

Features:

- High power rating, small size
- Flameproof, high temperature coating
- Special filming and coating processes
- Excellent high frequency characteristics
- Low noise
- Low voltage coefficient
- Marking: Print marked-DALE, Model, Resistance value, Tolerance/Temperature Coefficient, Date Code



RoHS Compliant



LEAD-FREE

Technical Specifications

Parameter	Unit	CPF1	CPF2	CPF3
Rated Dissipation at 70°C	W	1	2	3
Limiting Element Voltage	V	250	350	500
Insulation Voltage	V-	900	900	900
Thermal Resistance	K/W	85	60	50
Insulation Resistance	Ω	10 ¹⁰	10 ¹⁰	10 ¹⁰
Category Temperature Range	°C	-65°C/+230°C	-65°C/+230°C	-65°C/+230°C

Global Model	DIMENSIONS: in. (mm)			
	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	0.33 ± 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	0.555 ± 0.041 (14.10 ± 1.04)	0.180 ± 0.015 (4.57 ± .381)	0.650 (16.51)	0.032 ± 0.002 (0.81 ± 0.05)

Power Resistors

Vishay

1 Watt

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Vishay Part No.	Value (Ω)	PPM	Price Each			
				1	25	50	100
CPF1, 1 Watt							
71-CPF1R5000FLE14	CPF1R5000FLE14	0.50	150ppm	1.07	.89	.81	.74
71-CPF1R51000FLE14	CPF1R51000FLE14	0.51	150ppm	1.07	.89	.81	.74
71-CPF1R0000FKE14	CPF1R0000FKE14	1.0	100ppm	.78	.70	.67	.63
71-CPF12R0000FKE14	CPF12R0000FKE14	2.0	100ppm	.78	.70	.67	.63
71-CPF14R7500FKE14	CPF14R7500FKE14	4.75	100ppm	.78	.70	.67	.63
71-CPF15R0000FEE14	CPF15R0000FEE14	5.0	25ppm	.49	.432	.361	.33
71-CPF15R0000FHE14	CPF15R0000FHE14	5.0	50ppm	.70	.62	.45	.42
71-CPF16R2000FKE14	CPF16R2000FKE14	6.2	100ppm	.56	.48	.42	.36
71-CPF110R0000FHE14	CPF110R0000FHE14	10	50ppm	.70	.62	.45	.42
71-CPF110R0000FKE14	CPF110R0000FKE14	10	100ppm	.56	.48	.42	.36
71-CPF116R0000FKE14	CPF116R0000FKE14	16	100ppm	.56	.48	.42	.36
71-CPF133R0000FKE14	CPF133R0000FKE14	33	100ppm	.56	.48	.42	.36
71-CPF150R0000FEE14	CPF150R0000FEE14	50	25ppm	.49	.432	.361	.33
71-CPF175R0000FHE14	CPF175R0000FHE14	75	50ppm	.70	.62	.45	.42
71-CPF182R0000FKE14	CPF182R0000FKE14	82	100ppm	.56	.48	.42	.36
71-CPF1100R0000FKE14	CPF1100R0000FKE14	100	100ppm	.56	.48	.42	.36
71-CPF1150R0000FKE14	CPF1150R0000FKE14	150	100ppm	.56	.48	.42	.36
71-CPF1250R0000FHE14	CPF1250R0000FHE14	250	50ppm	.70	.62	.45	.42
71-CPF1470R0000FKE14	CPF1470R0000FKE14	470	100ppm	.56	.48	.42	.36
71-CPF1500R0000FKE14	CPF1500R0000FKE14	500	100ppm	.56	.48	.42	.36
71-CPF11K0000FKE14	CPF11K0000FKE14	1K	100ppm	.56	.48	.42	.36
71-CPF12K2100FKE14	CPF12K2100FKE14	2.21K	100ppm	.56	.48	.42	.36
71-CPF14K7500FKE14	CPF14K7500FKE14	4.75K	100ppm	.56	.48	.42	.36
71-CPF110K0000FKE14	CPF110K0000FKE14	10K	100ppm	.56	.48	.42	.36
71-CPF115K0000FEE14	CPF115K0000FEE14	15K	25ppm	.49	.432	.361	.33
71-CPF133K0000FKE14	CPF133K0000FKE14	33K	100ppm	.56	.48	.42	.36
71-CPF1100K0000FEE14	CPF1100K0000FEE14	100K	25ppm	.49	.432	.361	.33
71-CPF1100K0000FHE14	CPF1100K0000FHE14	100K	50ppm	.70	.62	.45	.42

2 Watt

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Vishay Part No.	Value (Ω)	PPM	Price Each			
				1	25	50	100
CPF2, 2 Watt							
71-CPF2R50000FLE14	CPF2R50000FLE14	0.50	150ppm	1.08	.93	.84	.78
71-CPF2R68000FLE14	CPF2R68000FLE14	0.68	150ppm	1.08	.93	.84	.78
71-CPF21R0000FKE14	CPF21R0000FKE14	1.0	100ppm	1.04	.80	.71	.65
71-CPF210R0000FHE14	CPF210R0000FHE14	10	50ppm	.62	.60	.58	.57
71-CPF210R0000FKE14	CPF210R0000FKE14	10	100ppm	.49	.432	.361	.33
71-CPF212R0000FKE14	CPF212R0000FKE14	12	100ppm	.49	.432	.361	.33
71-CPF215R0000FKE14	CPF215R0000FKE14	15	100ppm	.49	.432	.361	.33
71-CPF220R0000FKE14	CPF220R0000FKE14	20	100ppm	.49	.432	.361	.33
71-CPF249R9000FKE14	CPF249R9000FKE14	49.9	100ppm	.49	.432	.361	.33
71-CPF251R1000FKE14	CPF251R1000FKE14	51.1	100ppm	.49	.432	.361	.33
71-CPF282R0000FKE14	CPF282R0000FKE14	82	100ppm	.49	.432	.361	.33
71-CPF2100R0000FKE14	CPF2100R0000FKE14	100	100ppm	.49	.432	.361	.33
71-CPF2150R0000FKE14	CPF2150R0000FKE14	150	100ppm	.49	.432	.361	.33
71-CPF220R0000FKE14	CPF220R0000FKE14	200	100ppm	.49	.432	.361	.33

2 Watt (Cont.)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Vishay Part No.	Value (Ω)	PPM	Price Each			
				1	25	50	100
CPF2, 2 Watt (Cont.)							
71-CPF2470R000FKE14	CPF2470R000FKE14	470	100ppm	.49	.432	.361	.33
71-CPF2499R000FKE14	CPF2499R000FKE14	499	100ppm	.49	.432	.361	.33
71-CPF2680R000FKE14	CPF2680R000FKE14	680	100ppm	.49	.432	.361	.33
71-CPF21K0000FKE14	CPF21K0000FKE14	1K	100ppm	.49	.432	.361	.33
71-CPF21K5000FKE14	CPF21K5000FKE14	1.5K	100ppm	.49	.432	.361	.33
71-CPF21K8000FKE14	CPF21K8000FKE14	1.8K	100ppm	.49	.432	.361	.33
71-CPF22K2000FKE14	CPF22K2000FKE14	2.2K	100ppm	.49	.432	.361	.33
71-CPF22K7000FKE14	CPF22K7000FKE14	2.7K	100ppm	.49	.432	.361	.33
71-CPF23K3000FKE14	CPF23K3000FKE14	3.3K	100ppm	.49	.432	.361	.33
71-CPF24K7000FKE14	CPF24K7000FKE14	4.7K	100ppm	.49	.432	.361	.33
71-CPF25K1100FKE14	CPF25K1100FKE14	5.11K	100ppm	.49	.432	.361	.33
71-CPF210K0000FKE14	CPF210K0000FKE14	10K	100ppm	.49	.432	.361	.33
71-CPF212K0000FKE14	CPF212K0000FKE14	12K	100ppm	.49	.432	.361	.33
71-CPF218K0000FKE14	CPF218K0000FKE14	18K	100ppm	.49	.432	.361	.33
71-CPF222K0000FKE14	CPF222K0000FKE14	22K	100ppm	.49	.432	.361	.33
71-CPF247K0000FKE14	CPF247K0000FKE14	47K	100ppm	.49	.432	.361	.33
71-CPF249K9000FKE14	CPF249K9000FKE14	49.9K	100ppm	.49	.432	.361	.33
71-CPF256K0000FKE14	CPF256K0000FKE14	56K	100ppm	.49	.432	.361	.33
71-CPF2100K000FKE14	CPF2100K000FKE14	100K	100ppm	.49	.432	.361	.33
71-CPF2150K000FKE14	CPF2150K000FKE14	150K	100ppm	.49	.432	.361	.33

3 Watt

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Vishay Part No.	Value (Ω)	PPM	Price Each			
				1	25	50	100
CPF3, 3 Watt							
71-CPF31R0000FKE14	CPF31R0000FKE14	1.0	100ppm	1.19	1.00	.85	.84
71-CPF31R5000FKE14	CPF31R5000FKE14	1.5	100ppm	1.19	1.00	.85	.84
71-CPF38R2000FHE14	CPF38R2000FHE14	8.2	50ppm	1.19	1.00	.85	.84
71-CPF310R0000FKE14	CPF310R0000FKE14	10	100ppm	1.04	.80	.71	.65
71-CPF315R0000FKE14	CPF315R0000FKE14	15	100ppm	1.04	.80	.71	.65
71-CPF322R0000FKE14	CPF322R0000FKE14	22	100ppm	1.04	.80	.71	.65
71-CPF351R0000FKE14	CPF351R0000FKE14	51	100ppm	1.04	.80	.71	.65
71-CPF3100R000FKE14	CPF3100R000FKE14	100	100ppm	1.04	.80	.71	.65
71-CPF3200R000FKE14	CPF3200R000FKE14	200	100ppm	1.04	.80	.71	.65
71-CPF3249R000FKE14	CPF3249R000FKE14	249	100ppm	1.04	.80	.71	.65
71-CPF3270R000FKE14	CPF3270R000FKE14	270	100ppm	1.04	.80	.71	.65
71-CPF3470R000FKE14	CPF3470R000FKE14	470	100ppm	1.04	.80	.71	.65
71-CPF3499R000FKE14	CPF3499R000FKE14	499	100ppm	1.04	.80	.71	.65
71-CPF3820R000FKE14	CPF3820R000FKE14	820	100ppm	1.04	.80	.71	.65
71-CPF31K0000FKE14	CPF31K0000FKE14	1K	100ppm	1.04	.80	.71	.65
71-CPF310K0000FKE14	CPF310K0000FKE14	10K	100ppm	1.04	.80	.71	.65
71-CPF320K0000FKE14	CPF320K0000FKE14	20K	100ppm	1.04	.80	.71	.65
71-CPF347K0000FKE14	CPF347K0000FKE14	47K	100ppm	1.04	.80	.71	.65
71-CPF3100K000FKE14	CPF3100K000FKE14	100K	50ppm	1.04	.80	.71	.65
71-CPF3100K000FHE14	CPF3100K000FHE14	100K	100ppm	1.19	1.00	.85	.84
71-CPF3120K000FKE14	CPF3120K000FKE14	120K	100ppm	1.04	.80	.71	.65