

VISHAY / DALE Wirewound/Metal Oxide, Commercial Power Resistors

CP SERIES - 5 AND 10 WATT

Features:

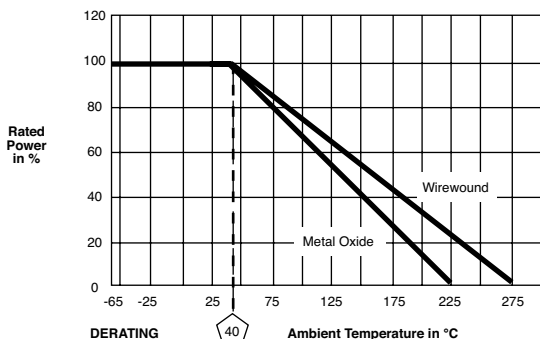
- Wirewound Resistance range 0.1-100Ω
- Metal oxide resistance range 101-50KΩ
- High performance for low cost
- High power to size ratio
- Ceramic cases are available with circuit board stand-offs
- Special inorganic potting compound and ceramic case provide high thermal conductivity in a fireproof package

Specifications:

- Humidity Performance: 75°C, 90%-100% RH, 240 hours



RoHS Compliant



Global Model	DIMENSIONS: in. (mm)					
	A	B	C	E ±0.001(0.025)		F
	±0.031 (.0794)	±0.031 (.0794)	±0.031 (.0794)	Wirewound	Metal Oxide	Wirewound Metal Oxide (Min.)
CP0005	0.875 (22.22)	0.394 (10)	0.354 (9)	0.031 (0.8)	0.031 (0.8)	1.378 (35)
CP0010	1.89 (48)	0.394 (10)	0.354 (9)	0.031 (0.8)	0.031 (0.8)	1.378 (35)

Global Model	Power Rating P _{40°C} W	Resistance Range (Ω)		Weight (Typical) g
		±10% Standard, ±5% Available		
CP0005	5	0.1 - 100	101 - 50K	4.8
CP0010	10	0.1 - 100	101 - 50K	9.5

Technical Specifications		
Parameter	Unit	Characteristic
Wirewound		
Temperature Coefficient	ppm/°C	±400
Short Time Overload	-	5x rated power for 5 sec.
Operating Temperature Range	°C	-65/+275
Metal Oxide		
Temperature Coefficient	ppm/°C	±400
Short Time Overload	-	5x rated power for 5 sec.
Operating Temperature Range	°C	-65/+275

For quantities of 250 and up, call for quote.

MOUSER STOCK NO.	Vishay Part No.	Value (Ω)	Tol. (%)	Price Each			
				1	25	50	100
CP5, 5 Watt							
71-CP0005R1000JE14	CP0005R1000JE14	0.1	5				
71-CP0005R2200JE14	CP0005R2200JE14	0.22	5				
71-CP0005R3300JE14	CP0005R3300JE14	0.33	5				
71-CP0005R700JE14	CP0005R700JE14	4.7	5				
71-CP0005R000JE14	CP0005R000JE14	5	5				
71-CP000510R00JE14	CP000510R00JE14	10	5				
71-CP000515R00JE14	CP000515R00JE14	15	5				
71-CP000550R00JE14	CP000550R00JE14	50	5				
71-CP0005100R0JE14	CP0005100R0JE14	100	5				
71-CP0005220R0JE14	CP0005220R0JE14	220	5				
71-CP0005470R0JE14	CP0005470R0JE14	470	5				
71-CP0005500R0JE14	CP0005500R0JE14	500	5				
71-CP00051K000JE14	CP00051K000JE14	1K	5				
CP10, 10 Watt							
71-CP0010R2200JE14	CP0010R2200JE14	0.22	5				
71-CP00101R000JE14	CP00101R000JE14	1	5				
71-CP00105R000JE14	CP00105R000JE14	5	5				
71-CP001010R00JE14	CP001010R00JE14	10	5				
71-CP0010500R0JE14	CP0010500R0JE14	500	5				

VISHAY / DALE Industrial Flameproof Metal Film Resistors

FP SERIES - 1/2, 1 AND 2 WATT

Features:

- Small physical size
- Low cost
- Can withstand overloads up to 100 times rated power without any trace of flame
- Exceptional frequency characteristics
- Especially suited for circuitry where functions, environments, and duty cycles demand power resistors
- Electroplated tin-lead solder finish leads and tighter tolerances available

Specifications:

- Temperature Coefficient (ppm/°C): 150



RoHS Compliant

Standard Electrical Specifications						
Global Model	Historical Model	Power Rating			Voltage Rating	Resistance Range (Ω)
		P _{25°C} W	P _{40°C} W	P _{70°C} W		
FP01/2	FP1/2	-	-	0.5	350	10 - 1M
FP0001	FP1	-	-	1	500	10 - 1M
FP0002	FP2	3.5	3	2	500	9 - 1.5M

Global Model	DIMENSIONS: in. (mm)		
	A	B	C
FP01/2	0.360±0.020 (9.14±0.51)	0.138 +0.012/-0.023 (3.51 +0.31/-0.58)	0.032±0.002 (0.81±0.05)
FP0001	0.560±0.031 (14.22±0.79)	0.190 +0.007/-0.015 (4.83 +0.18/-0.38)	0.032±0.002 (0.81±0.05)
FP0002	0.687±0.031 (17.45±0.79)	0.300±0.020 (7.62±0.51)	0.032±0.002 (0.81 ± 0.05)

Global Model	SPEC	Spec Codes	
		Description	
FP01/2	5605	Color banded, 4 or 5 bands depending on tolerance	
FP0001	6200	Color banded, 4 bands	
	6201	Color banded, 5 bands	
FP0002	9251	Alphanumeric marking	

For quantities of 250 and up, call for quote.

MOUSER STOCK NO.	Vishay Part No.	Value (Ω)	Tol. (%)	Price Each			
				1	25	50	100
FP1/2, 1/2 Watt							
71-FP01/210R0G5605EK	FP01/210R0G5605EK	10	2				
71-FP01/247R0G5605EK	FP01/247R0G5605EK	47	2				
71-FP01/2270R0G5605EK	FP01/2270R0G5605EK	270	2				
71-FP01/2470R0G5605EK	FP01/2470R0G5605EK	470	2				
71-FP01/2560R0G5605EK	FP01/2560R0G5605EK	560	2				
71-FP01/21K00G5605EK	FP01/21K00G5605EK	1K	2				
71-FP01/239K0G5605EK	FP01/239K0G5605EK	39K	2				
71-FP01/268K0G5605EK	FP01/268K0G5605EK	68K	2				
71-FP01/21M00G5605EK	FP01/21M00G5605EK	1M	2				
FP1, 1 Watt							
71-FP0001220RJ6200EK	FP0001220RJ6200EK	220	5				
71-FP0001470RG6200EK	FP0001470RG6200EK	470	2				
71-FP00011K00F6201EK	FP00011K00F6201EK	1K	1				
71-FP00011K50F6201EK	FP00011K50F6201EK	1.5K	1				
71-FP00011K50J6200EK	FP00011K50J6200EK	1.5K	5				
71-FP00013K90G6200EK	FP00013K90G6200EK	3.9K	2				
71-FP000122K0F6201EK	FP000122K0F6201EK	22K	1				
71-FP000147K0G6200EK	FP000147K0G6200EK	47K	2				
71-FP000168K0G6200EK	FP000168K0G6200EK	68K	2				
71-FP0001350KF6201EK	FP0001350KF6201EK	350K	1				
71-FP0001390KG6200EK	FP0001390KG6200EK	390K	2				
FP2, 2 Watt							
71-FP000233R0J9251EK	FP000233R0J9251EK	33	5				
71-FP000256R0J9251EK	FP000256R0J9251EK	56	5				
71-FP00021K00F9251EK	FP00021K00F9251EK	1K	1				
71-FP00028K20F9251EK	FP00028K20F9251EK	8.2K	1				
71-FP000210K0F9251EK	FP000210K0F9251EK	10K	1				
71-FP000215K0J9251EK	FP000215K0J9251EK	15K	5				
71-FP0002100KF9251EK	FP0002100KF9251EK	100K	1				
71-FP0002150KF9251EK	FP0002150KF9251EK	150K	1				