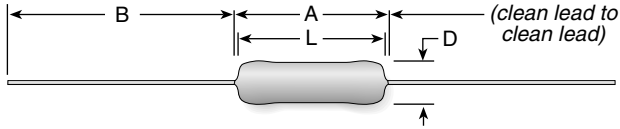




Metal Alloy Film Resistors 5% Tolerance Available in E24 Ohmic Values



PowrFilm resistors offer a major advantage over comparable metal film, carbon composition and fiberglass core wire types: A high power-to-size ratio. The PF1 can dissipate 1.0 watt in a size comparable to a 0.25 watt resistor and 3 watts in a package smaller than a comparable 1 watt unit.

PowrFilm is a high quality resistor constructed with a metal film alloy deposited on a high grade ceramic body. A non-flammable coating provides for environmental and electrical protection.

PowrFilm resistors are

an excellent choice for large volume, cost-sensitive applications requiring a high quality resistor that approaches the initial accuracy and long term stability of wirewound resistors.

FEATURES

- High power-to-size ratio.
- Economical.
- Endures continuous full loading with very little change in value over time.
- Excellent resistors where compact, space saving resistors are required.
- 24 Values per decade.
- RoHS compliant product available Jan. 2006 Add "E" suffix to part number to specify.

SPECIFICATIONS

Material

Coating: Non-flammable lacquer.

Core: High grade ceramic.

Terminals: Solder-coated copper lead.

Derating: Linearly from 100% @ +70°C to 0% @ +155°C.

Electrical

Tolerance: ±5%.

Temperature coefficient: ±250 ppm/°C.

Dielectric withstanding voltage: 500 VAC

Series	Wattage	Ohms	Length	Dimensions (in. / mm)			Hot spot	Lead
				Diam.	Dim. A	Dim. B	max.	ga.
PF1	1	1.0-1M	0.256 / 6.5	0.100 / 2.5	0.315 / 8.0	1.1 / 27.9	350	205°C 22
PF2	2	1.0-1M	0.394 / 10	0.154 / 3.9	0.433 / 11	1.0 / 25.4	500	220°C 20
PF3	3	1.0-1M	0.657 / 17	0.205 / 5.2	0.704 / 18	1.5 / 38.1	750	250°C 20

STANDARD PART NUMBERS FOR STANDARD RESISTANCE VALUES

Wattage				Wattage				Wattage				Wattage				Wattage							
Ohmic value	Part No. Prefix Suffix	1.0		2.0		3.0		Ohmic value	Part No. Prefix Suffix	1.0		2.0		3.0		Ohmic value	Part No. Prefix Suffix	1.0		2.0		3.0	
		PF1J	PF2J	PF3J	PF1J	PF2J	PF3J			PF1J	PF2J	PF3J	PF1J	PF2J	PF3J			PF1J	PF2J	PF3J			
1	1R0	✓	✓	✓	✓	✓	✓	18	18R	✓	✓	✓	✓	✓	✓	350	350	✓	✓	✓	✓	✓	✓
1.1	1R1	✓	✓	✓	✓	✓	✓	20	20R	✓	✓	✓	✓	✓	✓	360	360	✓	✓	✓	✓	✓	✓
1.2	1R2	✓	✓	✓	✓	✓	✓	22	22R	✓	✓	✓	✓	✓	✓	390	390	✓	✓	✓	✓	✓	✓
1.3	1R3	✓	✓	✓	✓	✓	✓	24	24R	✓	✓	✓	✓	✓	✓	430	430	✓	✓	✓	✓	✓	✓
1.5	1R5	✓	✓	✓	✓	✓	✓	27	27R	✓	✓	✓	✓	✓	✓	470	470	✓	✓	✓	✓	✓	✓
1.6	1R6	✓	✓	✓	✓	✓	✓	30	30R	✓	✓	✓	✓	✓	✓	510	510	✓	✓	✓	✓	✓	✓
1.8	1R8	✓	✓	✓	✓	✓	✓	33	33R	✓	✓	✓	✓	✓	✓	560	560	✓	✓	✓	✓	✓	✓
2	2R0	✓	✓	✓	✓	✓	✓	36	36R	✓	✓	✓	✓	✓	✓	620	620	✓	✓	✓	✓	✓	✓
2.2	2R2	✓	✓	✓	✓	✓	✓	39	39R	✓	✓	✓	✓	✓	✓	680	680	✓	✓	✓	✓	✓	✓
2.4	2R4	✓	✓	✓	✓	✓	✓	43	43R	✓	✓	✓	✓	✓	✓	750	750	✓	✓	✓	✓	✓	✓
2.7	2R7	✓	✓	✓	✓	✓	✓	47	47R	✓	✓	✓	✓	✓	✓	820	820	✓	✓	✓	✓	✓	✓
3	3R0	✓	✓	✓	✓	✓	✓	51	51R	✓	✓	✓	✓	✓	✓	910	910	✓	✓	✓	✓	✓	✓
3.3	3R3	✓	✓	✓	✓	✓	✓	56	56R	✓	✓	✓	✓	✓	✓	1,000	1K0	✓	✓	✓	✓	✓	✓
3.6	3R6	✓	✓	✓	✓	✓	✓	62	62R	✓	✓	✓	✓	✓	✓	1,100	1K1	✓	✓	✓	✓	✓	✓
3.9	3R9	✓	✓	✓	✓	✓	✓	68	68R	✓	✓	✓	✓	✓	✓	1,200	1K2	✓	✓	✓	✓	✓	✓
4.3	4R3	✓	✓	✓	✓	✓	✓	75	75R	✓	✓	✓	✓	✓	✓	1,300	1K3	✓	✓	✓	✓	✓	✓
4.7	4R7	✓	✓	✓	✓	✓	✓	82	82R	✓	✓	✓	✓	✓	✓	1,500	1K5	✓	✓	✓	✓	✓	✓
5.1	5R1	✓	✓	✓	✓	✓	✓	91	91R	✓	✓	✓	✓	✓	✓	1,600	1K6	✓	✓	✓	✓	✓	✓
5.6	5R6	✓	✓	✓	✓	✓	✓	100	100	✓	✓	✓	✓	✓	✓	1,800	1K8	✓	✓	✓	✓	✓	✓
6.2	6R2	✓	✓	✓	✓	✓	✓	110	110	✓	✓	✓	✓	✓	✓	2,000	2K0	✓	✓	✓	✓	✓	✓
6.8	6R8	✓	✓	✓	✓	✓	✓	120	120	✓	✓	✓	✓	✓	✓	2,200	2K0	✓	✓	✓	✓	✓	✓
7.5	7R5	✓	✓	✓	✓	✓	✓	130	130	✓	✓	✓	✓	✓	✓	2,400	2K4	✓	✓	✓	✓	✓	✓
8.2	8R2	✓	✓	✓	✓	✓	✓	150	150	✓	✓	✓	✓	✓	✓	2,700	2K7	✓	✓	✓	✓	✓	✓
9.1	9R1	✓	✓	✓	✓	✓	✓	160	160	✓	✓	✓	✓	✓	✓	3,000	3K0	✓	✓	✓	✓	✓	✓
10	10R	✓	✓	✓	✓	✓	✓	180	180	✓	✓	✓	✓	✓	✓	3,300	3K3	✓	✓	✓	✓	✓	✓
11	11R	✓	✓	✓	✓	✓	✓	200	200	✓	✓	✓	✓	✓	✓	3,600	3K6	✓	✓	✓	✓	✓	✓
12	12R	✓	✓	✓	✓	✓	✓	220	220	✓	✓	✓	✓	✓	✓	3,900	3K9	✓	✓	✓	✓	✓	✓
13	13R	✓	✓	✓	✓	✓	✓	240	240	✓	✓	✓	✓	✓	✓	4,300	4K3	✓	✓	✓	✓	✓	✓
15	15R	✓	✓	✓	✓	✓	✓	270	270	✓	✓	✓	✓	✓	✓	4,700	4K7	✓	✓	✓	✓	✓	✓
16	16R	✓	✓	✓	✓	✓	✓	330	330	✓	✓	✓	✓	✓	✓	5,100	5K1	✓	✓	✓	✓	✓	✓

+ = Most popular standard values
 ✓ = Standard values
 ✕ = Non-standard values subject to minimum handling charge per item