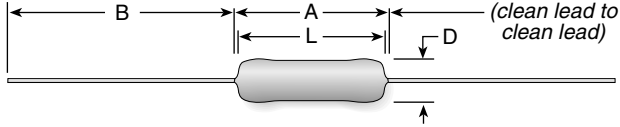


Metal Alloy Film Resistors 5% Tolerance Available in E24 Ohmic Values



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			Ohmic value	Part No. Prefix > Suffix <	PF1J	PF2J	PF3J	Ohmic value			Part No. Prefix > Suffix <	PF1J	PF2J	PF3J			
1	1R0	✓	✓	✓	18	18R	✓	✓	✓	350	350	✓	✓	✓	5,600	5K6	✓	✓	✓	110,000	110K	✓	✓	✓
1.1	1R1	✓	✓	✓	20	20R	✓	✓	✓	360	360	✓	✓	✓	6,200	6K2	✓	✓	✓	120,000	120K	✓	✓	✓
1.2	1R2	✓	✓	✓	22	22R	✓	✓	✓	390	390	✓	✓	✓	6,800	6K8	✓	✓	✓	130,000	130K	✓	✓	✓
1.3	1R3	✓	✓	✓	24	24R	✓	✓	✓	430	430	✓	✓	✓	7,500	7K5	✓	✓	✓	150,000	150K	✓	✓	✓
1.5	1R5	✓	✓	✓	27	27R	✓	✓	✓	470	470	✓	✓	✓	8,200	8K2	✓	✓	✓	160,000	160K	✓	✓	✓
1.6	1R6	✓	✓	✓	30	30R	✓	✓	✓	510	510	✓	✓	✓	9,100	9K1	✓	✓	✓	180,000	180K	✓	✓	✓
1.8	1R8	✓	✓	✓	33	33R	✓	✓	✓	560	560	✓	✓	✓	10,000	10K	✓	✓	✓	200,000	200K	✓	✓	✓
2	2R0	✓	✓	✓	36	36R	✓	✓	✓	620	620	✓	✓	✓	11,000	11K	✓	✓	✓	220,000	220K	✓	✓	✓
2.2	2R2	✓	✓	✓	39	39R	✓	✓	✓	680	680	✓	✓	✓	12,000	12K	✓	✓	✓	240,000	240K	✓	✓	✓
2.4	2R4	✓	✓	✓	43	43R	✓	✓	✓	750	750	✓	✓	✓	13,000	13K	✓	✓	✓	270,000	270K	✓	✓	✓
2.7	2R7	✓	✓	✓	47	47R	✓	✓	✓	820	820	✓	✓	✓	15,000	15K	✓	✓	✓	300,000	300K	✓	✓	✓
3	3R0	✓	✓	✓	51	51R	✓	✓	✓	910	910	✓	✓	✓	16,000	16K	✓	✓	✓	330,000	330K	✓	✓	✓
3.3	3R3	✓	✓	✓	56	56R	✓	✓	✓	1,000	1K0	✓	✓	✓	18,000	18K	✓	✓	✓	360,000	360K	✓	✓	✓
3.6	3R6	✓	✓	✓	62	62R	✓	✓	✓	1,100	1K1	✓	✓	✓	20,000	20K	✓	✓	✓	390,000	390K	✓	✓	✓
3.9	3R9	✓	✓	✓	68	68R	✓	✓	✓	1,200	1K2	✓	✓	✓	22,000	22K	✓	✓	✓	430,000	430K	✓	✓	✓
4.3	4R3	✓	✓	✓	75	75R	✓	✓	✓	1,300	1K3	✓	✓	✓	24,000	24K	✓	✓	✓	470,000	470K	✓	✓	✓
4.7	4R7	✓	✓	✓	82	82R	✓	✓	✓	1,500	1K5	✓	✓	✓	30,000	30K	✓	✓	✓	510,000	510K	✓	✓	✓
5.1	5R1	✓	✓	✓	91	91R	✓	✓	✓	1,600	1K6	✓	✓	✓	33,000	33K	✓	✓	✓	560,000	560K	✓	✓	✓
5.6	5R6	✓	✓	✓	100	100	✓	✓	✓	1,800	1K8	✓	✓	✓	36,000	36K	✓	✓	✓	620,000	620K	✓	✓	✓
6.2	6R2	✓	✓	✓	110	110	✓	✓	✓	2,000	2K0	✓	✓	✓	39,000	39K	✓	✓	✓	680,000	680K	✓	✓	✓
6.8	6R8	✓	✓	✓	120	120	✓	✓	✓	2,200	2K0	✓	✓	✓	43,000	43K	✓	✓	✓	750,000	750K	✓	✓	✓
7.5	7R5	✓	✓	✓	130	130	✓	✓	✓	2,400	2K4	✓	✓	✓	47,000	47K	✓	✓	✓	820,000	820K	✓	✓	✓
8.2	8R2	✓	✓	✓	150	150	✓	✓	✓	2,700	2K7	✓	✓	✓	51,000	51K	✓	✓	✓	910,000	910K	✓	✓	✓
9.1	9R1	✓	✓	✓	160	160	✓	✓	✓	3,000	3K0	✓	✓	✓	56,000	56K	✓	✓	✓	1 MEG	1M0	✓	✓	✓
10	10R	✓	✓	✓	180	180	✓	✓	✓	3,300	3K3	✓	✓	✓	62,000	62K	✓	✓	✓					
11	11R	✓	✓	✓	200	200	✓	✓	✓	3,600	3K6	✓	✓	✓	68,000	68K	✓	✓	✓					
12	12R	✓	✓	✓	220	220	✓	✓	✓	3,900	3K9	✓	✓	✓	75,000	75K	✓	✓	✓					
13	13R	✓	✓	✓	240	240	✓	✓	✓	4,300	4K3	✓	✓	✓	82,000	82K	✓	✓	✓					
15	15R	✓	✓	✓	270	270	✓	✓	✓	4,700	4K7	✓	✓	✓	91,000	91K	✓	✓	✓					
16	16R	✓	✓	✓	330	330	✓	✓	✓	5,100	5K1	✓	✓	✓	100,000	100K	✓	✓	✓					

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