

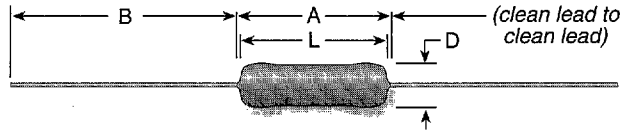
PowrFilm resistors offer a major advantage over comparable metal film, carbon composition and fiberglass core wire types: A high power-to-size ratio. The PF1 can dissipate 1.0 watt in a size comparable to a 1/4 watt resistor and 3 watts in a package smaller than a comparable 1 watt unit.

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.

PowrFilm®

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



Series	Wattage	Ohms	Length	Diam.	Dimensions (in. / mm)			Hot spot	Lead
					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	20	
PF2	2	1.0-1M	0.394 / 10	0.154 / 3.9	0.433 / 11	1.0 / 25.4	500	20	
PF3	3	1.0-1M	0.657 / 17	0.205 / 5.2	0.704 / 18	1.5 / 38.1	750	20	

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.

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

- ⊕ = Most popular stock values
- ✓ = Stock values
- ⊕ = Non-stock values subject to minimum handling charge per item

STOCK PART NUMBERS FOR STANDARD RESISTANCE VALUES

Ohmic value	Part No. Prefix Suffix	Wattage			Ohmic value	Part No. Prefix Suffix	Wattage			Ohmic value	Part No. Prefix Suffix	Wattage			Ohmic value	Part No. Prefix Suffix	Wattage							
		1.0	2.0	3.0			1.0	2.0	3.0			1.0	2.0	3.0			1.0	2.0	3.0					
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	✓	✓	✓					