



SETTING NEW STANDARDS IN RELIABILITY

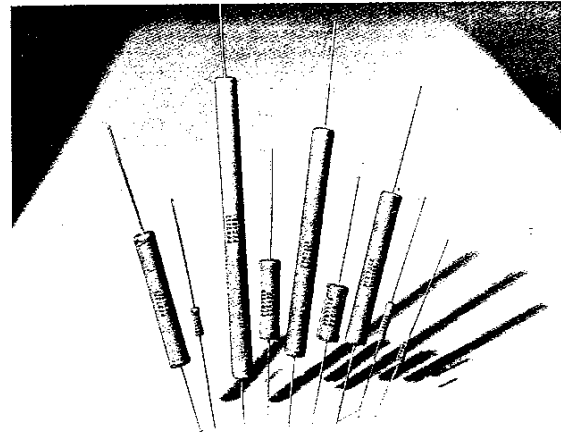
Datasheet Provided by 33Audio.com

**KDI
Pyrofilm
Corporation**

THICK FILM RESISTORS

FEATURES

- MINIATURE SIZES
- HIGH VOLTAGE - UP TO 40 KV
- WIDE RESISTANCE RANGE - 10K Ω - 1000M
- LOW TEMPERATURE COEFFICIENT - $0 \pm 100\text{PPM}/^\circ\text{C}$
- POWER UP TO 5.25 W AT 70°C



SPECIFICATIONS

TOLERANCE:

The standard tolerances are 10%, 5%, 2%, 1%. Special tolerances are available upon request. Consult Pyrofilm's local sales engineer or the factory.

LOAD LIFE:

When operated under rated power voltage, and temperature for 2000 hours, the resistance change is less than 1%.

DIELECTRIC STRENGTH:

Pyrofilm's thick film resistors are protected with a proprietary organic insulation. This insulation provides a dielectric withstanding capability of 450 volts for the PVC60 and PVC62. The PVC70, PVC100, PVC175, PVC300 and PVC400 have a dielectric withstanding capability of 1000 volts.

POWER RATING:

Power ratings are based on 70°C operation. Derated linearly to 0 watts at 150°C.

TERMINALS:

Axial leads are welded to a press fitted cap. The leads are solder coated with 1½ inch long. Special configurations are available, consult a factory sales engineer.

TEMPERATURE COEFFICIENT:

The temperature coefficient is $\pm 100\text{PPM}/^\circ\text{C}$ over the temperature range of 25°C to 125°C for most values. See table II. Special temperature coefficients are available upon request. Consult Pyrofilm's local sales engineer or the factory.

VOLTAGE COEFFICIENT:

When measured between 10 volts and 1000 volts, or full rated voltage, whichever is less, the voltage coefficient is less than 5 PPM/V, except as noted in Table II column 3.

VOLTAGE RATING:

Resistor shall have d.c. continuous working voltage rating as determined by $E = \sqrt{PR}$. This is limited by the maximum voltage rating of Table I.

RESISTANCE ELEMENT:

The resistance element consists of a Pyrofilm formulated thick film conductive glaze applied by our proprietary techniques and fired in carefully controlled furnaces.

MARKING:

Standard marking consists of manufacturing symbol PFR, type, value and tolerance.

KDI PYROFILM CORPORATION

60 South Jefferson Road

PVC-2/80
Copyright © 1979 by KDI Pyrofilm Corporation

201-887-8100

TWX-710-986-8220

Whippany, N.J. 07981

Datasheet Provided by 33Audio.com

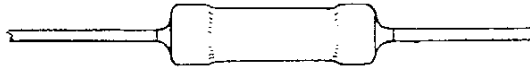


TABLE I

PYROFILM TYPE	WATTS MAX	VOLTAGE MAX	RESISTANCE RANGE*	BODY DIMENSIONS - INCHES		LEAD DIAM INCHES
				LENGTH	DIAMETER	
PVC60	1/4	500	10K - 100M	.375 ± .031	.125 ± .020	.025
PVC62	1/4	1000	10K - 200M	.510 ± .031	.125 ± .020	.025
PVC70	1	5KV	10K - 500M	.750 ± .050	.295 ± .025	.032
PVC100	1.5	10KV	10K - 1000M	1.040 ± .050	.295 ± .025	.032
PVC175	3	20KV	20K - 1000M	1.800 ± .050	.295 ± .025	.032
PVC300	3.75	30KV	35K - 1000M	3.050 ± .050	.295 ± .025	.032
PVC400	5.25	40KV	50K - 1000M	3.980 ± .050	.295 ± .025	.032

*Extended values are available consult factory.

TABLE II
TEMPERATURE COEFFICIENT

PYROFILM TYPE	± 100 PPM/°C 25° to ± 125°C	± 250 PPM/°C - 55° to 125°C
PVC60	10K - 25M	25.1M - 100M (1)
PVC62	10K - 50M	50.1M - 200M (1)
PVC70	10K - 100M	100.1M - 500M (2)
PVC100	10K - 150M	150.1M - 1000M (2)
PVC175	20K - 300M	300.1M - 1000M (2)
PVC300	35K - 525M	525.1M - 1000M (2)
PVC400	50K - 750M	750.1M - 1000M (2)

(1) Max. Vc - 100 PPM/V typically 50 PPM/V

(2) Max. Vc - 10 PPM/V

ORDERING INFORMATION

When ordering Pyrofilm thick film resistors the following information is requested

A. Pyrofilm type B. Resistance value C. Tolerance

Example:

Profilm type
PVC100

Resistance value
1 MEG

Tolerance
2%