PRECISION WIREWOUND RESISTORS HERMETICALLY SEALED UP175, UP400, UP500



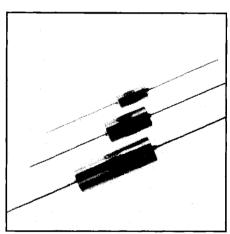
NITROGEN FILLED TO GIVE EXCELLENT LONG-TERM STABILITY VERY LOW TEMPERATURE COEFFICIENT AND CLOSE TOLERANCE

TYPI	DIMENSIC BODY	ONS (mm) TFADS	BEST TOTERANCE	OHMIC RANGI	MAXIMUM BODY 1FMP	HEMP RISI	VOLTAGI RAHNG # 70 C
UP175	16 x ø7.1	25 x Ø0.5	±0.1% ±0.05% ±0.02% ±0.01% ±0.005%	5R0 - 650K 10R - 650K 50R - 650K 80R - 650K 500R - 650K	+135°C	0.12°C/mW	250V dc
UP400	23.4 x ø11.2	25 x ø0.6	±0.1% ±0.05% ±0.02% ±0.01% ±0.005% ±0.002%	5R0 - 5M0 10R - 5M0 10R - 5M0 50R - 5M0 100R - 5M0 1K0 - 5M0	+135℃	0.1°C/mW	500V dc
UP500	41 x Ø13.5	25 x ø0.9	±0.1% ±0.05% ±0.02% ±0.01% ±0.005% ±0.002%	2R0 - 10M 5R0 - 10M 5R0 - 10M 10R - 10M 100R - 10M 1K0 - 10M	+135°C	0.045°C/mW	1000V dc

The UP Range of resistors are wound on polyester bobbins, and are sealed into Nitrogen-filled brass tubes which then have an insulation sleeve fitted over them. The integrity of the seal is checked using electronic equipment capable of the detection of leaks as small as 10^{-7} cm³/second.

Typical applications for these devices include use as reference resistors and accurate input attenuators for measurement equipment. To this end ,Vishay is able to offer matched sets to customer requirements.

For lower ohmic value resistors, four terminal versions of the UP400 and UP500 are available. When ordering, a suffix "R" denotes the four-terminal version.



	<u>UP175</u>	<u>UP400</u>	<u>UP500</u>
LONG TERM DRIFT RECOMMENDED POWER At +20°C MAXIMUM POWER At +20°C			<±0.0015%/2000 hours 1W (At +70°C 600mW) 1.7W (At +70°C 1.1W)
THERMAL EMF TEMPERATURE COEFFICIENT Standard: OF RESISTANCE Suffix C: Suffix D:	<0.5µV/°C: All Values <±5ppm/°C	<0.5μV/°C: All Values <±5ppm/°C <±3ppm/°C: Above 150R <±2ppm/°C: Above 150R <±1ppm/°C: Above 300R	<0.5μV/°C: All Values <±5ppm/°C <±3ppm/°C <±2ppm/°C: Above 500R <±1ppm/°C: Above 500R

Ordering Example

<u>Type</u> **UP500**

TCR /F <u>Value</u> 111K11

<u>Tolerance</u> +0.002%