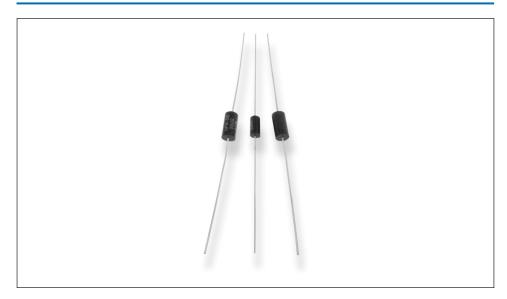


Key Features

- Custom weld tabs and copper weld leads ensure a good mechanical and electrical connection between the element and the lead wires. Protection is given to the windings by means of a layer of silicone RTV rubber. This allows movement of the windings during temperature cycling due to loads and to varying ambient temperatures. Outer protection is given by means of a hot transfer moulded epoxy compound which ensures an airtight coating with no trapped air
- Superior quality wirewound resistors with very
 low selection tolerances
 and temperature
 coefficients down to 1 ppm.
 3 case sizes are available.
 T/C, ratio and pair
 matching is available
 and customer specifications
 are welcome. These
 components exhibit high
 stability under load and
 severe environmental
 conditions

Type UPW Series

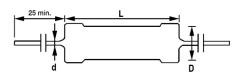


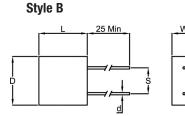
The resistive element is wire wound onto a moulded high temperature plastic bobbin with a central former. The direction of winding is reversed part way through the winding, giving very low values of inductance. These Neohm resistors use bobbin assemblies with flattened lead ends, providing high resistance to pull, vibration and torsional forces during handling, assembly and life.

Characteristics - Electrical

	UPW15	UPW25	UPW30	UPW50
Rated Power @ 125°C (W) Derate to zero at 145°C	0.125	0.25	0.3	0.5
Resistance Range (Ohms) Min	R10	R10	R10	R10
Max	300K	1M0	1M0	2M0
Tolerance (%)		0.005 0.01 0.02	0.05 0.1 0.2 0.5	1
Code Letter		E L P	W B A D	F
Limiting Element Voltage (V)	150	300	150	400
Temp. Coefficient (ppm/°C) Typ.	± 3 (0°C to +85°C)			
Max.	± 5 (-55°C to +125°C) ± 1 available on request			
Operating Temperature Range (°C)	-55 to +145			
Long Term Stability (Load)	< 50 ppm @ 10,000 hrs			
	< 100ppm @ 26,000 hrs			
Thermal EMF	< 0.2 μ V /°C			

Dimensions - Style A



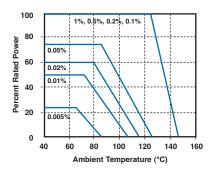


Туре	Style	L ± 0.4	D ± 0.4	W ± 0.5	s ± 0.2	d nom
UPW15	Α	6.35	3.18	-	-	0.64
UPW25	Α	9.53	4.75	-	-	0.64
UPW30	В	7.62	7.62	3.18	3.81	0.64
UPW50	Α	12.7	6.35	-	-	0.81



Type UPW Series

Derating Curve



UPW Series resistors must be derated for tolerances below 0.1%. Use the graph to select tolerance versus operating temperature to determine the percentage rated power for operation.

No derating is required for operation below 20 °C.

Mounting

The resistors are suitable for processing on automatic insertion equipment and cutting and bending machines.

Marking

The resistors are marked with the following information:- Manufacturer's name, type number, value and tolerance, four figure date code.

Packaging

UPW Series resistors are packed loose in boxes.

Performance Characteristics

The evaluation of the performance characteristics is carried out with reference to IEC specifications QC 400 000 and QC 400 100.

TEST REF	Long Term Tests ±(0.25% + 0.05 ohm)
4.23	Climatic sequence
4.24	Damp heat, steady state
4.25.1	Endurance at 70 °C
4.25.3	Endurance at 145 °C
TEST REF	Short Term Tests ±(0.1% + 0.01 ohm)
4.13	Overload
	0.10110000
4.16	Robustness of terminations
4.16 4.18	
	Robustness of terminations
4.18	Robustness of terminations Resistance to soldering heat

All resistance values are measured at a distance of 9.53mm (0.375 inch) from the end cap. $\,$

How to Order

Orders for these components should include the following information: Type, tolerance code letter and value e.g. **UPW30 L 1K15**

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75822-2K4 90J56R PW10-39R-5% ALSR1-20 EP3WS47RJ RWR81S1000BRB12 RWR81S12R4FRB12 RWR81SR511FRB12 RWR81SR619FRBSL RWR89S10R0FRB12 RWR89S9310FPB12 27J1K0 93J62RE AC100000002208JAB00 1HJ-25 FSQ5WR47J FW10A33R0JA 25J39K 25J5R0-B 25W1D0 272-303-JBW 280-PRM5-150-RC CP0005270R0JE1491 CPCC0510R00JE32 CPCC051R000JB31 CPW052K500JE143 CPW05700R0JE143 C1010RJL CA000210R00JE14 VPR5F1500 RS02B887R0FE73 RWR74SR604FRB12 RWR84S1001FRB12 RWR84S20R0FSBSL RWR89S6190FSB12 CPW055R000JB143 ULW5-39R0JT075 W31-R047JA1 VP25K-120 VC3D900 ULW5-68RJT075 65888-3R3 CB5JB10R0 CPW151K500JE313 RWR80N3400FSB12 RWR81S1000FRB12 RWR81S1000FSB12 RWR89S6R81FRB12 RWR89N30R1FRB12 RWR81S4R99FPB12