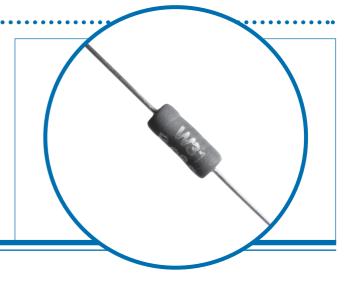
Cement Coated Wirewound Resistors



W30 Series

- Values down to 10m ohms
- Tolerance to 1%
- Flameproof protection
- Custom built to meet pulse requirements



Electrical Data

		W31	Notes
Power rating at 25°C	watts	3.0	
Power rating at 70°C	watts	2.5	
Resistance range	ohms	0R01 to 10K	
TCR (-55 to 155°C)	ppm/°C	See below	
Resistance tolerance	%	<r10: 5="">=R10: 1, 2, 5</r10:>	
Standard values		E24 series preferred	Other values to special order
Thermal impedance	°C/watt	83	
Ambient temperature range	°C	-55 to 155	
Limiting element voltage	volts	100	
TCR	ppm/°C	0.01 ohms <1000	
	·	0.033 ohms <500	
	·	0.091 ohms <200	
	iii ii	10 ohms <150	
	·	10K ohms <100	

Physical Data

Maximum D	imensions	(mm) and \) and Weight (g)		
Туре	L max.	D max.	f min.	d nom.	Wt.nom.
W31	13	5.6	22.75	0.8	1.0



Construction

A high quality ceramic substrate is assembled with interference fit end caps to which are welded the element winding and termination wires. The protection is then applied to the body, providing an effective seal which is impervious to moisture, shock, vibration, fungus and salt spray.

Terminations

Material Solder coated copper.

Strength The terminations meet the requirements of

IEC 68.2.21.

Solderability The terminations meet the requirements of

IEC 115-1, Clause 4.17.3.2.

Marking

W31 resistors are legend marked with type reference, resistance value and tolerance. Values are marked in accordance with IEC 62.

Solvent Resistance

The body and marking are resistant to all normal industrial cleaning solvents suitable for printed circuits.

Flammability

The resistor coating will not burn under any condition of applied temperature or component overload.

General Note

Welwyn Components reserves the right to make changes in product specification without notice or liability. All information is subject to Welwyn's own data and is considered accurate at time of going to print.

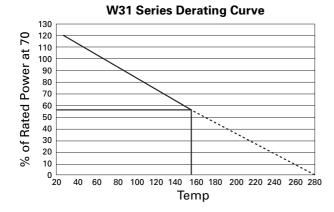


W30 Series



Performance Data

		Maximum	Typical	
Load: 1000 hrs 3 watts @ 25°C	ΔR%	5.0 + .001Ω	3.5	
1000 hrs 2.5 watts @ 70°C	ΔR%	5.0 + .001Ω	3.5	
Dry heat: 1000 hrs at 200°C	∆R%	5.0 + .001Ω	3.5	
Derating from room temperature		see derating curve		
Short term overload 10 x rated power for 5 seconds	∆R%	5.0 + .001Ω	1.0	
Climatic	∆ R%	5.0 + .001Ω	3.5	
Climatic category		55/200/56		
Long term damp heat: 56 days	∆R%	3.0 + .001Ω	1.0	
Temperature rapid change	∆R%	2.0 + .001Ω	1.5	
Resistance to solder heat	ΔR%	5.0 + .001Ω	2.0	
Vibration and bump	ΔR%	5.0 + .001Ω	2.0	
Voltage proof	volts	500 min		
Pulse handling		Data available	by request	



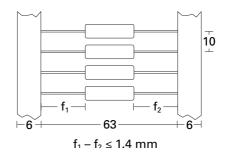
Packaging

The standard method of packaging is taped in ammo packs. Can be provided on reels by request. W31 resistors can be supplied preformed. Contact factory for details.

Application Notes

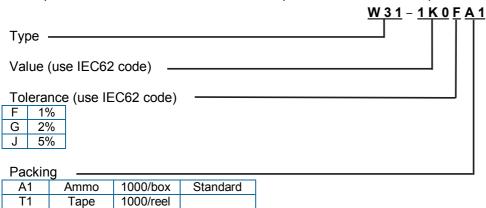
The terminations should not be bent closer than 1.6mm from the body, and the recommended minimum bend radius is 1.2mm.

Care must be taken when determining clearance between the resistor body and the P.C.B. or other components. Resistance is measured 6mm from body.



Ordering Procedure

Example: W31 at 1 kilohms and 1% tolerance packed in a box of 1000 pieces



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89XHR10K L083S222LF 91XR5K SML100M12MSF PFC-W0805LF-03-2870-B 2627 RC55LF-D-196R-B-B 3371R5KL.5 HM00-01800
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