

Features

- Formerly a Riedon[™] product
- Resistances from 0.01 to 91k Ω
- Resistance tolerances as low as ±0.01 %
- Power rating: 2 to 15 watts
- Suitable for current sensing
- TCR as low as ±20 PPM/°C

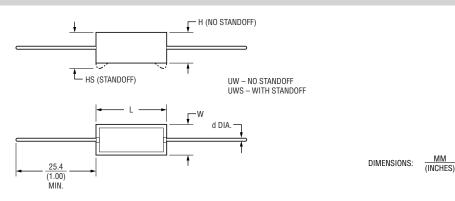
- All welded resistance element
- Non-inductive windings available
- Flameproof inorganic construction
- UWS version with built-in standoff

MM

RoHS compliant*

UW Series – Riedon[™] Ceramic Wirewound Resistors by Bourns

Specifications and Dimensions



Bourns	Power Rating @ 70 °C (W)	Resistance Range ¹ (Ω)	Dimensions				
Part Number			L	н	HS	w	d²
UW2	2	0.01 to 12k	$\frac{17.8 \pm 1.0}{(.700 \pm .04)}$	$\frac{6.2 \pm 1.0}{(.245 \pm .04)}$	$\frac{7.6 \pm 1.0}{(.300 \pm .04)}$	$\frac{6.5 \pm 0.4}{(.255 \pm .015)}$	$\frac{0.8 \pm 0.4}{(.032 \pm .015)}$
UW3	3	0.01 to 22k	$\frac{22.2 \pm 1.0}{(.875 \pm .04)}$	$\frac{7.9 \pm 1.0}{(.312 \pm .04)}$	$\frac{9.5 \pm 1.0}{(.375 \pm .04)}$	$\frac{7.9 \pm 0.4}{(.312 \pm .015)}$	$\frac{0.8 \pm 0.4}{(.032 \pm .015)}$
UW5	5	0.01 to 45k	$\frac{22.2 \pm 1.0}{(.875 \pm .04)}$	$\frac{9.5 \pm 1.0}{(.375 \pm .04)}$	$\frac{11.1 \pm 1.0}{(.437 \pm .04)}$	$\frac{9.5 \pm 0.4}{(.375 \pm .015)}$	$\frac{0.8 \pm 0.4}{(.032 \pm .015)}$
UW10	10	0.01 to 65k	$\frac{48 \pm 1.0}{(1.875 \pm .04)}$	$\frac{9.5 \pm 1.0}{(.375 \pm .04)}$	$\frac{12.7 \pm 1.0}{(.500 \pm .04)}$	$\frac{9.5 \pm 0.4}{(.375 \pm .015)}$	$\frac{1.0 \pm 0.4}{(.040 \pm .015)}$
UW15	15	0.01 to 91k	$\frac{48 \pm 1.0}{(1.875 \pm .04)}$	$\frac{12.7 \pm 1.0}{(.500 \pm .04)}$	$\frac{15.9 \pm 1.0}{(.625 \pm .04)}$	$\frac{12.7 \pm 0.4}{(.500 \pm .015)}$	$\frac{1.0 \pm 0.4}{(.040 \pm .015)}$

Notes:

¹ For non-inductive windings, divide maximum resistance by 2.

² Lead Diameter: 18 AWG = 0.040 " / 20 AWG = 0.032 ".

Specification	Value		
Tolerances	±0.01 % to ±10 % (1 % Standard)		
Temperature Coefficient	>10 Ω : ±20 PPM/°C 1 Ω to 10 Ω : ±50 PPM/°C <1 Ω : <u>Contact Bourns</u> . Other TCR values available upon request.		
Temperature Range	-55 °C to +275 °C		
Dielectric Strength	1500 VAC		
Construction	Centerless ground ceramic core Matte tin over copper High temperature / inorganic potting compound (anti-arc design) All welded terminations		

Additional Information

Click these links for more information:





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^{*}RoHS Directive 2015/863, Mar 31, 2015 and Annex.

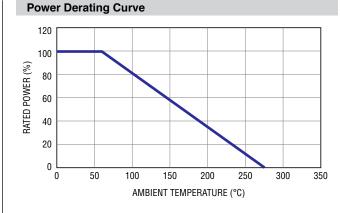
UW Series – Riedon™ Ceramic Wirewound Resistors by Bourns

BOURNS®

Environmental Performance				
Test (MIL-STD 202)	ΔR			
Dielectric	±0.2 % + 0.05 Ω			
Load Life	±1 % + 0.05 Ω			
Storage	±0.2 % + 0.05 Ω			
Moisture Resistance	±0.2 % + 0.05 Ω			
Thermal Shock	±0.2 % + 0.05 Ω			
5X Overload (5 s)	±0.2 % + 0.05 Ω			
Shock	±0.1 % + 0.05 Ω			
Vibration	±0.1 % + 0.05 Ω			

		UW - 5 4R J 1
Model UW (standard) UWN (non-inductiv UWS (built-in stand		
Power Rating 2 = 2 3 = 3 5 = 5	10 = 10 15 = 15	
(Example: $5R = 5G$	K" represents decimal point	
Tolerance $X^{**} = \pm 0.01 \%$ $W^{**} = \pm 0.02 \%$ $V^{**} = \pm 0.025 \%$ $B = \pm 0.1 \%$ $T = \pm 0.2 \%$ $C = \pm 0.25 \%$	$F = \pm 1 \%$	
Internal Use ———		

**Contact Bourns for tolerances <±0.01 %.



Packaging Specifications

Tray	
UW2	
UW3	40 pcs./pk.
	40 pcs./pk.
UW15	

BOURNS

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REV. 10/24

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