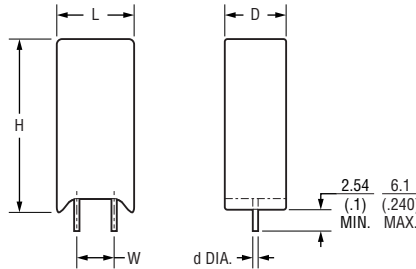


Features

- Formerly a Riedon™ product
- Resistances from 0.01 to 91k Ω
- Resistance tolerances as low as $\pm 0.01\%$
- Power rating: 2 to 10 watts
- Flameproof inorganic construction
- Low TCR
- All welded resistance element
- Non-inductive windings available
- RoHS compliant*

UV Series – Riedon™ Ceramic Wirewound Resistors by Bourns

Specifications and Dimensions



DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

Bourns Part Number	Power Rating @ 70 °C (W)	Resistance Range ¹ (Ω)	Dimensions				
			H	L	D	W	d ²
UV2	2	0.01 to 12k	$\frac{20.3 \pm 1.5}{(.80 \pm .006)}$	$\frac{11.0 \pm 1.0}{(.435 \pm .04)}$	$\frac{7.0 \pm 1.0}{(.275 \pm .04)}$	$\frac{5.1 \pm 0.4}{(.200 \pm .015)}$	$\frac{0.8 \pm 0.05}{(.032 \pm .002)}$
UV3	3	0.01 to 22k	$\frac{25.4 \pm 1.5}{(1.00 \pm .006)}$	$\frac{12.1 \pm 1.0}{(.475 \pm .04)}$	$\frac{8.1 \pm 1.0}{(.320 \pm .04)}$	$\frac{5.1 \pm 0.4}{(.200 \pm .015)}$	$\frac{0.8 \pm 0.05}{(.032 \pm .002)}$
UV5	5	0.01 to 45k	$\frac{25.4 \pm 1.5}{(1.00 \pm .006)}$	$\frac{13.2 \pm 1.0}{(.520 \pm .04)}$	$\frac{8.9 \pm 1.0}{(.350 \pm .04)}$	$\frac{5.1 \pm 0.4}{(.200 \pm .015)}$	$\frac{0.8 \pm 0.05}{(.032 \pm .002)}$
UV7	7	0.01 to 65k	$\frac{38.7 \pm 1.5}{(1.52 \pm .006)}$	$\frac{13.2 \pm 1.0}{(.520 \pm .04)}$	$\frac{9.7 \pm 1.0}{(.380 \pm .04)}$	$\frac{5.1 \pm 0.4}{(.200 \pm .015)}$	$\frac{0.8 \pm 0.05}{(.032 \pm .002)}$
UV10	10	0.01 to 91k	$\frac{35.1 \pm 1.5}{(1.38 \pm .006)}$	$\frac{16.1 \pm 1.0}{(.635 \pm .04)}$	$\frac{12.2 \pm 1.0}{(.480 \pm .04)}$	$\frac{7.6 \pm 0.4}{(.300 \pm .015)}$	$\frac{1.0 \pm 0.05}{(.040 \pm .002)}$

Notes:

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

³ Lead Diameter: 18 AWG = 0.040 " / 20 AWG = 0.032 ".

Specifications

Specification	Value
Tolerances	$\pm 0.01\%$ to $\pm 10\%$ (1 % Standard)
Temperature Coefficient	>10 Ω : ± 20 PPM/ $^{\circ}\text{C}$ 1 Ω to 10 Ω : ± 50 PPM/ $^{\circ}\text{C}$ <1 Ω : Other TCR values available. Contact Bourns.
Temperature Range	-55 $^{\circ}\text{C}$ to +275 $^{\circ}\text{C}$
Dielectric Strength	1500 VAC
Construction	Centerless ground ceramic core Matte tin over copper High temperature / inorganic potting compound All welded terminations

Additional Information

Click these links for more information:



WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

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

Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

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"Riedon Logo" is a registered trademark of BE Services Company, Inc. in the United States.

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UV Series – Riedon™ Ceramic Wirewound Resistors by Bourns

BOURNS®

Environmental Performance

Test (MIL-STD 202)	ΔR
Dielectric	$\pm 0.2\% + 0.05\ \Omega$
Load Life	$\pm 1\% + 0.05\ \Omega$
Storage	$\pm 0.2\% + 0.05\ \Omega$
Moisture Resistance	$\pm 0.2\% + 0.05\ \Omega$
Thermal Shock	$\pm 0.2\% + 0.05\ \Omega$
5X Overload (5 s)	$\pm 0.2\% + 0.05\ \Omega$
Shock	$\pm 0.1\% + 0.05\ \Omega$
Vibration	$\pm 0.1\% + 0.05\ \Omega$

How To Order

UV 5 - 4R J 1

Model _____

UV (standard)

UVN (non-inductive)

Power Rating (W) _____

2 = 2 7 = 7

3 = 3 10 = 10

5 = 5

Resistance Code _____

For values $\leq 10K\ \Omega$, "R" represents decimal point
(Example: 4R = 4 Ω)

For values $> 10K\ \Omega$, "K" represents decimal point
(Example 1K5 = 1.5K Ω)

Tolerance _____

X** = $\pm 0.01\%$ D = $\pm 0.5\%$

W** = $\pm 0.02\%$ F = $\pm 1\%$

V** = $\pm 0.025\%$ G = $\pm 2\%$

U** = $\pm 0.05\%$ H = $\pm 3\%$

B = $\pm 0.1\%$ J = $\pm 5\%$

T = $\pm 0.2\%$ K = $\pm 10\%$

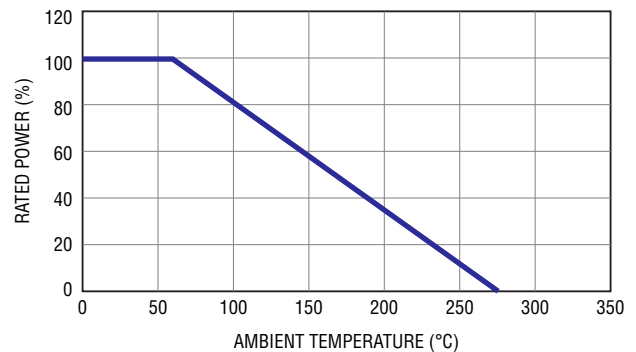
C = $\pm 0.25\%$

Internal Use _____

(Specific TCR values available upon request.)

**[Contact Bourns](#) for tolerances $< \pm 0.01\%$.

Power Derating Curve



Packaging Specifications

Tray Packaging

UV2	182 pcs./tray
UV3	110 pcs./tray
UV5	110 pcs./tray
UV7	70 pcs./tray
UV10	64 pcs./tray

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