

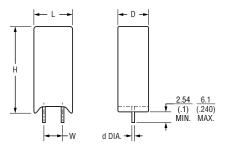
### **Features**

- Formerly a Riedon<sup>™</sup> product
- Resistances from 0.01 to 91k  $\Omega$
- Resistance tolerances as low as ±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**



MM DIMENSIONS:

Bourns Part Number	Power Rating @ 70 °C (W)	Resistance Range¹ (Ω)	Dimensions				
			Н	L	D	w	d²
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	$\frac{35.1 \pm 1.5}{(1.38 \pm .006)}$	$\frac{16.1 \pm 1.0}{(.635 \pm .04)}$	$\frac{12.2 \pm 1.0}{(.480 \pm .04)}$	$\frac{7.6 \pm 0.4}{(.300 \pm .015)}$	$\frac{1.0 \pm 0.05}{(.040 \pm .002)}$

#### **Specifications**

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: Other TCR values available. Contact Bourns.		
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 All welded terminations		

#### **Additional Information**

Click these links for more information:











TECHNICAL INVENTORY SAMPLES



### **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.

"Bourns" is a registered trademark of Bourns, Inc. in the United States and other countries.

In April 2023, BE Services Company, Inc., a subsidiary of Bourns, Inc., purchased certain assets of Riedon, Inc., including its logo and trademarks and the right to continue to manufacture former Riedon™ products.

 $<sup>^1</sup>$  For non-inductive windings, divide maximum resistance by 2.  $^3$  Lead Diameter: 18 AWG = 0.040  $^{\prime\prime}$  / 20 AWG = 0.032  $^{\prime\prime}$  .

<sup>&</sup>quot;Riedon Logo" is a registered trademark of BE Services Company, Inc., in the United States.

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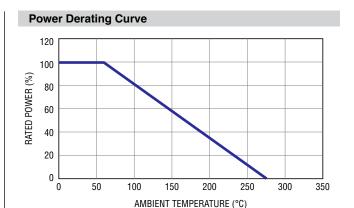
# **UV Series** – Riedon™ Ceramic Wirewound Resistors by Bourns

# **BOURNS**®

#### **Environmental Performance**

Test (MIL-STD 202)	ΔR
Dielectric	±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

#### **How To Order** UV 5 - 4R J 1 Model -UV (standard) UVN (non-inductive) Power Rating (W) -7 = 7 2 = 2 3 = 3 10 = 10 Resistance Code -For values ≤10K Ω, "R" represents decimal point (Example: $4R = 4 \Omega$ ) For values >10K Ω, "K" represents decimal point (Example 1K5 = $1.5K \Omega$ ) Tolerance -X\*\* = ±0.01 % $D = \pm 0.5 \%$ W\*\* = ±0.02 % F = ±1 % $V^{**} = \pm 0.025 \%$ G = ±2 % $U^{**} = \pm 0.05 \%$ $H = \pm 3 \%$ J = ±5 % $B = \pm 0.1 \%$ $T = \pm 0.2 \%$ $K = \pm 10 \%$ $C = \pm 0.25 \%$ Internal Use -(Specific TCR values available upon request.)



### **Packaging Specifications**

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

### \*\*Contact Bourns for tolerances <±0.01 %.

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