

Features

- Formerly a Riedon[™] product
- Resistances from 0.02 to 260K Ω
- Resistance tolerances as low as ±0.01 %
- Power rating: 1 to 15 watts
- High power rating in a small package
- Excellent pulse handling
- Operating temp. range: -55 °C to +250 °C
- Low TCR: ±20 PPM/°C standard
- Designed to Mil-R-26 / MIL-R-39007 power ratings
- Non-inductive windings available
- Flame resistant coating
- RoHS compliant*

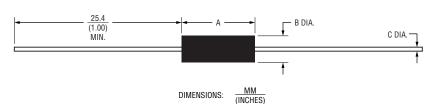
UB Series – Riedon™ Miniature Silicone Coated Power Resistors by Bourns

Specifications

Model and Power	Power	Max. Ohms²	Dimensions			Designed to Mil-R-26 /
Rating Code	Rating (W)	(Ω)	Α	B ³	C¹	MIL-R-39007
UB1	1	3.4k	$\frac{6.4 \pm 1.6}{(.250 \pm .062)}$	$\frac{2.2 \pm 0.8}{(.085 \pm .031)}$	$\frac{0.5 \pm 0.05}{(.020 \pm .002)}$	RW-81 RWR-81
UB2	1.5	7.5k	$\frac{7.9 \pm 1.6}{(.312 \pm .062)}$	$\frac{2.0 \pm 0.8}{(.078 \pm .031)}$	$\frac{0.6 \pm 0.05}{(.025 \pm .002)}$	RWR-82
UB3	2	10k	$\frac{10.3 \pm 1.6}{(.406 \pm .062)}$	$\frac{2.4 \pm 0.8}{(.094 \pm .031)}$	$\frac{0.6 \pm 0.05}{(.025 \pm .002)}$	RW-80 RWR-80
UB3C	3	12.5k	$\frac{8.9 \pm 1.6}{(.350 \pm .062)}$	$\frac{4.0 \pm 0.8}{(.156 \pm .031)}$	$\frac{0.8 \pm 0.05}{(.032 \pm .002)}$	_
UB5	4	25k	$\frac{14.2 \pm 1.6}{(.560 \pm .062)}$	$\frac{4.7 \pm 0.8}{(.187 \pm .031)}$		_
UB5C	5	32k	$\frac{12.7 \pm 1.6}{(.500 \pm .062)}$	$\frac{6.4 \pm 0.8}{(.250 \pm .031)}$		_
UB6	6	50k	$\frac{15.9 \pm 1.6}{(.625 \pm .062)}$	$\frac{6.4 \pm 0.8}{(.250 \pm .031)}$		-
UB10	7	95k	$\frac{22.2 \pm 1.6}{(.875 \pm .062)}$	$\frac{7.9 \pm 0.8}{(.312 \pm .031)}$	$\frac{1.0 \pm 0.05}{(.040 \pm .002)}$	RW-84
UB12	10	150k	$\frac{31.0 \pm 1.6}{(1.220 \pm .062)}$	$\frac{7.9 \pm 0.8}{(.312 \pm .031)}$		_
UB15	15	260k	$\frac{45.2 \pm 1.6}{(1.780 \pm .062)}$	$\frac{9.5 \pm 0.8}{(.375 \pm .031)}$		_

Notes:

- 1 Lead Diameter: 18 AWG = 0.040 $^{\prime\prime}$ / 20 AWG = 0.032 $^{\prime\prime}$ / 22 AWG = 0.025 $^{\prime\prime}$ / 24 AWG = 0.020 $^{\prime\prime}$.
- Where more than one lead is listed / the **bold** value is standard. ² For non-inductive windings / divide maximum resistance by 2.
- ³ For non-inductive winding where R \leq 0.10 ohms, tolerance is +1.6/-0.0 mm (+0.063/-0.00 ").



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 +250 °C		
Maximum Working Voltage	√(P*R)		
Dielectric Strength	UB1 / UB2 / UB3: 500 VAC; All Others: 1000 VAC		
Construction	Centerless ground ceramic core Matte tin over copper Flame resistant / High temperature / trivalent / inorganic Silicone coating All welded terminations		

Additional Information

Click these links for more information:











PRODUCT

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CONTACT

How To Order

	UB 5 - 25R F 1				
Model ————————————————————————————————————	re)				
Power Rating Code (See Specification					
Resistance Code For values \leq 10K Ω , "R" represents decimal point (Example: 25R = 25 Ω) For values >10K Ω , "K" represents decimal point (Example 1K5 = 1.5K Ω)					
Tolerance $ X^{**} = \pm 0.01 \%$ $W^{**} = \pm 0.02 \%$ $V^{**} = \pm 0.025 \%$ $U^{**} = \pm 0.05 \%$ $B = \pm 0.1 \%$ $T = \pm 0.2 \%$ $C = \pm 0.25 \%$	D = ±0.5 % F = ±1 % G = ±2 % H = ±3 % J = ±5 % K = ±10 %				
Internal Use ———					

(Specific TCR values available upon request.)



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/egal/disclaimer.pdf.

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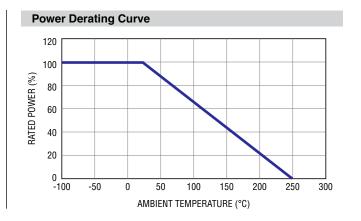
^{**}Contact Bourns for tolerances <±0.01 %.

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BOURNS®

Environmental Performance

Specification (MIL-STD 202)	ΔR		
Dielectric	±0.2 % + 0.05 Ω		
Load Life	To ±1 % depending on size and resistance value		
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		



Packaging Quantities

Bourns Model Number	Max. Bulk	10 " Reel	12 "Reel	14 " Reel
UB1		2000		
UB2			0000	5000
UB3			3000	5000
UB3C	1000			
UB5		500	1500	3000
UB5C			1000	1500
UB6		N/A		
UB10			500	1000
UB12				
UB15			N/A	750

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