

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*

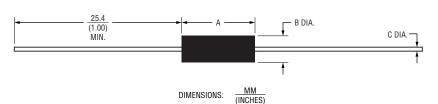
UB Series – Riedon™ Miniature Silicone Coated Power Resistors by Bourns

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

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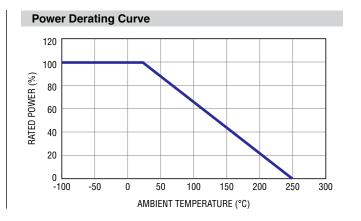
^{**}Contact Bourns for tolerances <±0.01 %.

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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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UB10-160RF1 UB3-9K5F1 UB10-1R5F1 UB1-150RF1 UB3-3R1F1 UB3-4R2F1 UB3C-330RF1 UB5C-225RB1
UB5C-1R8F1 UB5C-5R6F1 UB5C-900RF1 UB6-250RF1 UB3-110RF1 UB3C-120RF1 UB5C-10KF1 UB5C-3RF1
UB6-2K3J1 UB10-250RF1 UB15-15RF1 UB3-10RF1 UB3-26R4F1 UB3-7K5F1 UB5C-0R5F1 UB5C-240RF1
UB5C-50RF1 UB6-1K8F1 UBN12-1R5C1 UB15-1KF1 UB2-24R9F1 UB3-23R7F1 UB5C-10RF1 UB5C-3KJ1 UB6-820RF1 UBN5-0R05F1 UB10-0R5F1 UB15-20RF1 UB3-5K69F1 UB3C-0R2F1 UB3C-250RF1 UB6-1K5F1 UBN5-0R1F1 UB3-0R4F1 UB3C-1K5F1 UB5C-0R2F1 UB5C-20RF1 UB5C-40RF1 UB5C-4RF1 UB6-200RF1 UBN5-0R30F1 UB10-5RF1 UB12-5R6B1 UB15-0R06F1 UB3-16R9F3 UB3-25R8F1 UB3C-12RF1 UB3C-500RF1 UB3C-120RF1 UB3C-120RF1 UB5C-20RF1 UB10-15RF1 UB1-1K62F1 UB15-5RF1 UB3-3R7F1 UB3C-0R5F1 UB3C-30RF1 UB3C-16RF1 UB3C-16RF1 UB15-5RF1 UB3-3R7F1 UB3C-0R5F1 UB3-475RF1 UB3C-10RF1 UB3C-200RF1 UB5C-680RF1 UB5C-200RF1 UBN5-200RF1 UB3-4KF1 UB3-5K49F1 UB3C-200RF1 UB3C-220RF1 UB3C-3RF1 UB3-5K49F1 UB3C-200RF1 UB1-26R6F1 UB3-3RF1 UB3-5K49F1 UB3-5K49F1 UB3-5K49F1 UB3C-200RF1 UB3C-200RF1 UB3C-500RF1 UB3-4KF1 UB3-5K49F1 UB3C-200RF1 UB3C-500RF1 UB3C-500RF1 UB3-5K49F1 UB3C-200RF1 UB3C-500RF1 UB3C-500RF1 UB3C-500RF1 UB3-5K49F1 UB3C-200RF1 UB3C-500RF1 UB3C-