

UB Series

Miniature Silicone Coated Power Resistors



- High Power Rating in a Small Package
- Excellent Pulse Handling
- High Temperature: -55°C to +250°C
- Resistances from 0.02 to 260kOhms
- Power Rating 1 to 15Watts
- Resistance Tolerances to $\pm 0.01\%$
- Low TCR: $\pm 20\text{ppm/K}$ Standard
- MIL-R-26 / MIL-R-39007 Power Ratings
- Non-Inductive Windings Available
- Flame resistant coating

SPECIFICATIONS

Type	Wattage Rating (Watts)	Maximum Ohms ²	Dimensions			Maximum Working Voltage	MIL-R-26 / MIL-R-39007 Style
			A $\pm 0.062"$ [$\pm 1.6\text{mm}$]	B ³ $\pm 0.031"$ [$\pm 0.8\text{mm}$]	C ¹ $\pm 0.002"$ [$\pm 0.05\text{mm}$]		
UB-1	1	3.4k	0.250 [6.4]	0.085 [2.2]	0.020 [0.5] 0.025 [0.6]	33	RW-81 RWR-81
UB-2	1.5	7.5k	0.312 [7.9]	0.078 [2.0]	0.020 [0.5] 0.025 [0.6]	42	RWR-82
UB-3	2	10k	0.406 [10.3]	0.094 [2.4]	0.025 [0.6] 0.020 [0.5]	80	RW-80 RWR-80
UB-3C	3	12.5k	0.350 [8.9]	0.156 [4.0]	0.032 [0.8]	135	
UB-5	4	25k	0.560 [14.2]	0.187 [4.7]	0.032 [0.8]	162	
UB-5C	5	32k	0.500 [12.7]	0.250 [6.4]	0.040 [1.0]	194	
UB-6	6	50k	0.625 [15.9]	0.250 [6.4]	0.040 [1.0]	258	
UB-10	7	95k	0.875 [22.2]	0.312 [7.9]	0.040 [1.0]	425	RW-84
UB-12	10	150k	1.220 [31.0]	0.312 [7.9]	0.040 [1.0]	607	
UB-15	15	260k	1.780 [45.2]	0.375 [9.5]	0.040 [1.0]	1050	

¹ Lead Diameter: 18 AWG = 0.040" / 20 AWG = 0.032" / 22 AWG = 0.025" / 24 AWG = 0.020"

Where more than one lead is listed / the top 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 $+0.063/-0.00$ [$+1.6/-0.0$ mm]



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SPECIFICATIONS (continued)

Specification	Value
Tolerances	$\pm 0.01\%$ to $\pm 10\%$ (1% Standard)
Temperature Coefficient	$>10\Omega$: $\pm 20\text{ppm/K}$ 1Ω to 10Ω : $\pm 50\text{ppm/K}$ $<1\Omega$: Call Factory
Temperature Range	-55°C to $+250^{\circ}\text{C}$
Dielectric Strength	500 VAC : UB-1 / UB-2 / UB-3 1000 VAC : All Others
Construction	Centerless ground ceramic core Matte Tin over Copper Flame resistant / High temperature / trivalent / inorganic Silicone coating All welded terminations
Environmental Performance (MIL-STD 202)	ΔR
Dielectric	$\pm 0.2\% + 0.05\Omega$
Load Life	To $\pm 1\%$ Depending on Size and Resistance Value
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 (5s)	$\pm 0.2\% + 0.05\Omega$
Shock	$\pm 0.1\% + 0.05\Omega$
Vibration	$\pm 0.1\% + 0.05\Omega$

Power Derating Curve



Ordering Information

For Non-Inductive Windings / insert the letter "N" (i.e. UBN-5)

Part Description: Part Type - Resistance - Tolerance - TCR (If not standard)

Example: UB-3 10 Ohm 1%