

# 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 ± 0.01%
- Low TCR: ± 20ppm/K Standard
- MIL-R-26 / MIL-R-39007 Power Ratings
- Non-Inductive Windings Available
- Flame resistant coating

## SPECIFICATIONS

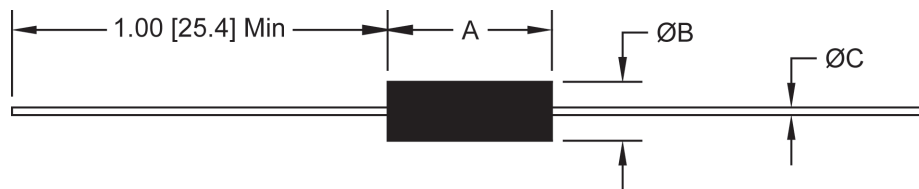
Type	Wattage Rating ( Watts )	Maximum Ohms <sup>2</sup>	Dimensions			Maximum Working Voltage	MIL-R-26 / MIL-R-39007 Style
			A ±0.062" [±1.6mm]	B <sup>3</sup> ±0.031" [±0.8mm]	C <sup>1</sup> ±0.002" [±0.05mm]		
UB-1	1	3.4k	0.250 [6.4]	0.085 [2.2]	0.020 [0.5] 0.025 [0.6]	33	RW-81 RWR-81
UB-2	1.5	7.5k	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	

<sup>1</sup> 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

<sup>2</sup> For non-inductive windings / divide maximum resistance by 2

<sup>3</sup> For non-inductive winding where R ≤ 0.10 Ohms, Tolerance is +0.063/-0.00 [±1.6/-0.0 mm]



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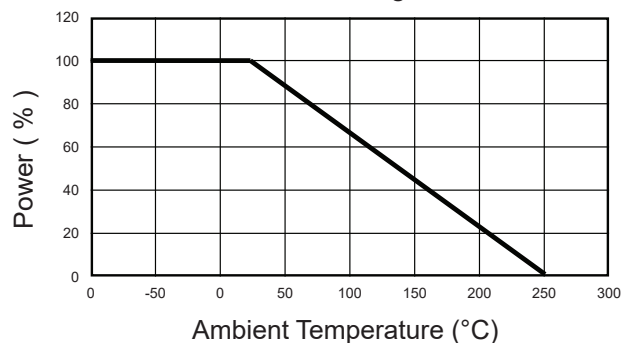
Silicone Coated Power Resistors



## SPECIFICATIONS (continued)

Specification	Value
Tolerances	$\pm 0.01\%$ to $\pm 10\%$ ( 1% Standard )
Temperature Coefficient	$>10\Omega$ : $\pm 20\text{ppm/K}$ $1\Omega$ to $10\Omega$ : $\pm 50\text{ppm/K}$ $<1\Omega$ : Call Factory
Temperature Range	$-55^\circ\text{C}$ 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)	$\Delta R$
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%