UB Series

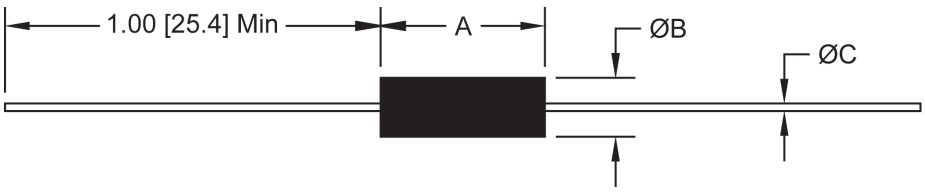
Miniature Silicone Coated Power Resistors

- **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**

SPECIFICATIONS

Type	Wattage Rating (Watts)	Maximum Ohms [2]	Dimensions			Maximum Working Voltage	MIL-R-26 / MIL-R-39007 Style
			A ±0.062" [±1.6mm]	B[3] ±0.031" [±0.8mm]	C[1] ±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]	0.218 [5.5]	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 ≤ 0.10 Ohms, Tolerance is +0.063/-0.00 [+1.6/-0.0 mm]



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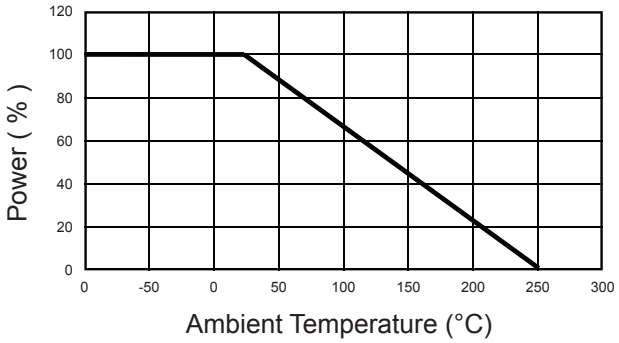
SPECIFICATIONS (continued)

Specification	Value
Tolerances	±0.01% to ±10% (1% Standard)
Temperature Coefficient	>10Ω : ±20ppm/K 1Ω to10Ω : ±50ppm/K <1Ω : Call Factory
Temperature Range	-55°C to +250°C
Dielectric Strength	500 VAC : UB-1 / UB-2 / UB-3 1000 VAC : All Others
Construction	Centerless ground ceramic core Tinned copper or copperweld leads High temperature / trivalent / inorganic Silicone coating All welded terminations
Environmental Performance (MIL-STD 202)	ΔR
Dielectric	±0.2% + 0.05Ω
Load Life	To ±1% Depending on Size and Resistance Value
Storage	±0.2% + 0.05Ω
Moisture Resistance	±0.2% + 0.05Ω
Thermal Shock	±0.2% + 0.05Ω
5X Overload (5s)	±0.2% + 0.05Ω
Shock	±0.1% + 0.05Ω
Vibration	±0.1% + 0.05Ω

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%