

UTL Series

Silicone Coated Power Resistors



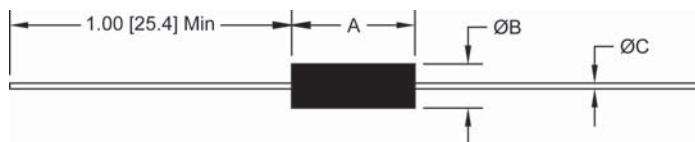
- Resistances from 0.1 to 8.2K Ohms
- Power Rating 1 to 5 Watts
- Resistance Tolerances of $\pm 5\%$
- Non-Inductive Windings Available
- High Pulse Handling
- Available in Bulk, Tape & Reel, and Ammo Pack

SPECIFICATIONS

Specification	Value
Tolerances	$\pm 5\%$ (1, 3, and 10% on Request)
Temperature Coefficient	$<10\Omega$: 0 to 600 ppm/ $^{\circ}\text{C}$ $\geq 10\Omega$: -80 to +140 ppm/ $^{\circ}\text{C}$
Temperature Range	-40 $^{\circ}\text{C}$ to +200 $^{\circ}\text{C}$
Climatic Category (IEC 60068)	40 / 200/ 56
Basic Specification	IEC60 115-1
Maximum Voltage	$\sqrt{P \times R}$
Environmental Performance	ΔR
Load Life (1000h at rated power, 1.5h ON, 0.5h OFF)	$\pm 5\% + 0.1\Omega$
Moisture Resistance (56d @ 40 $^{\circ}\text{C}$, 90-95% RH)	$\pm 1\% + 0.05\Omega$
Thermal Shock (30m @ -40 $^{\circ}\text{C}$, 30m @ +200 $^{\circ}\text{C}$, 5 cycles)	$\pm 1\% + 0.05\Omega$
10X Overload (5s)	$\pm 2\% + 0.1\Omega$
Vibration (10 to 500Hz, 10g, 6h)	$\pm 0.5\% + 0.05\Omega$

Type	Power Rating (Watts @ 40 $^{\circ}\text{C}$)	Ohmic Range		Dimensions			Maximum Working Voltage
		MIN	MAX ¹	A (MAX)	B (MAX)	C $\pm 0.002"$ [$\pm 0.05\text{mm}$]	
UTL-1	1	0.1	2.4K	0.40 [10.0]	0.17 [4.3]	0.031 [0.8]	50
UTL-2	2	0.1	4.7K	0.51 [13.0]	0.22 [5.5]	0.031 [0.8]	97
UTL-3	3	0.1	5.1K	0.51 [13.0]	0.22 [5.5]	0.031 [0.8]	124
UTL-5	5	0.1	8.2K	0.67 [17.0]	0.29 [7.5]	0.031 [0.8]	202

¹ For non-inductive windings, divide maximum resistance by 2



Ordering Information:

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

Part Number - Resistance - Tolerance - Packing

Example: UTL-5 100 Ohm 5% Tape & Reel

Power Derating Curve

