

# UTL Series

Silicone Coated Power Resistors



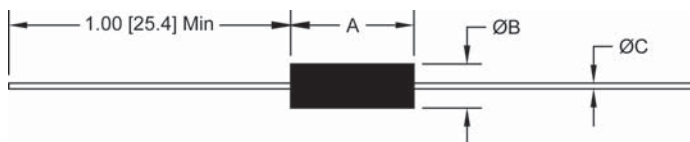
- Resistances from 0.1 to 8.2K Ohms
- Power Rating 1 to 5 Watts
- Resistance Tolerances of  $\pm 5\%$
- Non-Inductive Windings Available
- High Pulse Handling
- Available in Bulk, Tape & Reel, and Ammo Pack

## 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	$\Delta R$
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 <sup>1</sup>	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

<sup>1</sup> 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**

