

FEATURES

- Resistances from 0.02 to 320kOhms
- Power Rating 0.1 to 13Watts
- Resistance Tolerances to $\pm 0.01\%$
- Low TCR: $\pm 20\text{ppm/K}$ Standard
- MIL-R-26 / MIL-R-39007 Power Ratings
- Temperature Range: -55°C to $+350^{\circ}\text{C}$ (V)
- Non-Inductive Windings Available

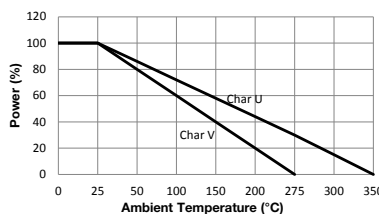


RoHS*
COMPLIANT

TABLE 1 – SPECIFICATIONS

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 $+275^{\circ}\text{C}$: Characteristic U -55°C to $+350^{\circ}\text{C}$: Characteristic V	
Dielectric Strength	500 VAC : UT-1 / UT-1/2A / UT-1/2 / UT-1A 1000 VAC : All Others	
Constuction	Centerless ground ceramic core Tinned copper or copperweld leads High temperature / trivalent / inorganic Silicone coating All welded terminations	
Environmental Performance (MIL-STD 202)	ΔR	
	Characteristic U	Characteristic V
Dielectric	$\pm 0.2\% + 0.05\Omega$	$\pm 0.2\% + 0.05\Omega$
Load Life	$\pm 1\% + 0.05\Omega$	$\pm 3\% + 0.05\Omega$
Storage	$\pm 0.2\% + 0.05\Omega$	$\pm 2\% + 0.05\Omega$
Moisture Resistance	$\pm 0.2\% + 0.05\Omega$	$\pm 2\% + 0.05\Omega$
Thermal Shock	$\pm 0.2\% + 0.05\Omega$	$\pm 2\% + 0.05\Omega$
5X Overload (5s)	$\pm 0.2\% + 0.05\Omega$	$\pm 2\% + 0.05\Omega$
Shock	$\pm 0.1\% + 0.05\Omega$	$\pm 0.2\% + 0.05\Omega$
Vibration	$\pm 0.1\% + 0.05\Omega$	$\pm 0.2\% + 0.05\Omega$

FIGURE 1 – DERATING



ORDERING INFORMATION

Part Number - Resistance - Tolerance - TCR (If not standard)

UT-5 25kOhms 0.1%
For Non-Inductive Windings / insert the letter "N" (i.e. UTN-5)

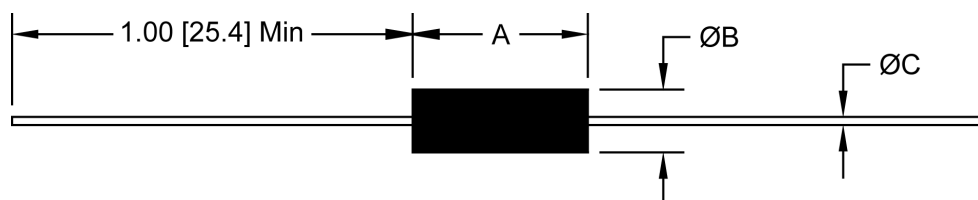
TABLE 1 – SPECIFICATIONS (continued)

Type	Wattage Rating (Watts)		Maximum Ohms ²	Dimensions			Maximum Working Voltage	MIL-R-26 / MIL-R-39007 Style
	U	V		A ±0.062" [±1.6mm]	B ±0.031" [±0.8mm]	C ¹ ±0.002" [±0.05mm]		
UT-1	0.1	0.25	500	0.150 [3.8]	0.078 [2.0]	0.018 [0.46]	8.5	
UT-1/2A	0.4	0.5	2.5k	0.250 [6.4]	0.078 [2.0]	0.020 [0.5] 0.025 [0.6]	20	
UT-1/2	0.75	0.9	7.5k	0.330 [8.4]	0.078 [2.0]	0.020 [0.5] 0.025 [0.6]	29	
UT-1A	1.0	1.5	10k	0.406 [10.3]	0.094 [2.4]	0.020 [0.5] 0.025 [0.6]	52	RW-70
UT-2	1.5	2.0	12.5k	0.350 [8.9]	0.156 [4.0]	0.032 [0.8]	60	
UT-2A	2.5	3.0	22k	0.500 [12.7]	0.187 [4.7]	0.032 [0.8]	130	RW-69
UT-2B	3.0	3.75	22k	0.560 [14.2]	0.187 [4.7]	0.032 [0.8]	140	RW-79 RWR-79
UT-2C	3.0	4.0	40k	0.500 [12.7]	0.250 [6.4]	0.040 [1.0] 0.032 [0.8]	140	
UT-2E	3.0	3.5	30k	0.500 [12.7]	0.200 [5.1]	0.032 [0.8]	140	
UT-3	4.0	5.5	45k	0.67 [17.1]	0.270 [6.9]	0.040 [1.0] 0.032 [0.8]	210	
UT-5	5.0	6.5	91k	0.875 [22.2]	0.312 [7.9]	0.040 [1.0]	360	RW-74 RWR-74
UT-5A	5.0	6.5	65k	0.970 [24.6]	0.250 [6.4]	0.032 [0.8]	390	
UT-6	5.0	6.5	95k	1.000 [25.4]	0.312 [7.9]	0.040 [1.0]	504	RW-67
UT-7A ³	7.0	9.0	150k	1.375 [35.0]	0.375 [9.5]	0.040 [1.0]	650	
UT-7B	7.0	9.0	100k	1.400 [35.6]	0.312 [7.9]	0.040 [1.0]	590	
UT-7C	7.0	9.0	154k	1.220 [31.0]	0.312 [7.9]	0.040 [1.0]	620	
UT-10	10	13	260k	1.780 [45.2]	0.375 [9.5]	0.040 [1.0]	850	RW-78 RWR-78
UT-15	15	-	320k	1.810 [46.0]	0.510 [13.0]	0.048 [1.2]	1500	

¹ Lead Diameter: 18 AWG = 0.040" / 20 AWG = 0.032" / 22 AWG = 0.025" / 24 AWG = 0.020" / 25 AWG = 0.018"

Where more than one lead is listed / the top value is Standard

² For non-inductive windings / divide maximum resistance by 2





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