UT Series

High Temperature Power Resistors

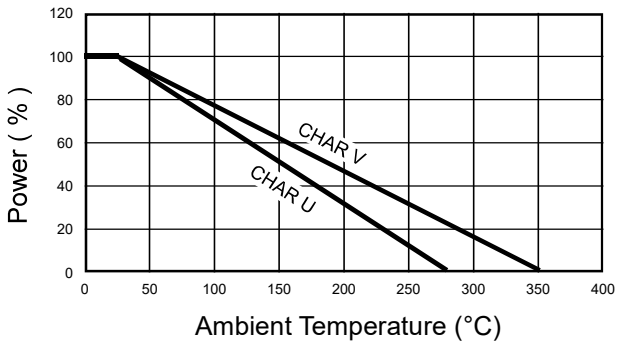
- **Resistances from 0.02 to 320kOhms**
- **Excellent Pulse Handling**
- **High Temperature: -55°C to +350°C (“V” Rating)**
- **Power Rating 0.1 to 13Watts**
- **Resistance Tolerances to ± 0.01%**
- **Low TCR: ± 20ppm/K Standard**
- **Silicone Coated Power Resistor**
- **MIL-R-26 / MIL-R-39007 Power Ratings**
- **Non-Inductive Windings Available**

RoHS compliant

SPECIFICATIONS

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 +275°C : Characteristic U -55°C to +350°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 Matte Tin over Copper Flame Resistant / High temperature / trivalent / inorganic Silicone coating All welded terminations	
Environmental Performance (MIL-STD 202)	ΔR	
	Characteristic U	Characteristic V
Dielectric	±0.2% + 0.05Ω	±0.2% + 0.05Ω
Load Life	±1% + 0.05Ω	±3% + 0.05Ω
Storage	±0.2% + 0.05Ω	±2% + 0.05Ω
Moisture Resistance	±0.2% + 0.05Ω	±2% + 0.05Ω
Thermal Shock	±0.2% + 0.05Ω	±2% + 0.05Ω
5X Overload (5s)	±0.2% + 0.05Ω	±2% + 0.05Ω
Shock	±0.1% + 0.05Ω	±0.2% + 0.05Ω
Vibration	±0.1% + 0.05Ω	±0.2% + 0.05Ω

Power Derating Curve



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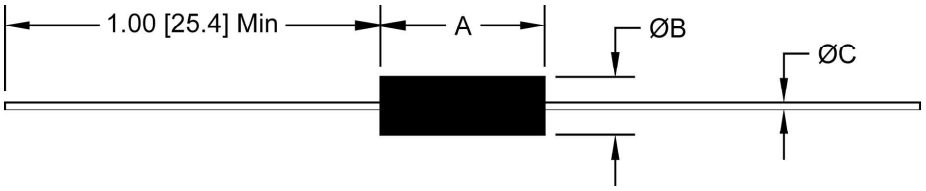
UT Series

Silicone Coated Power Resistors

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[3] ±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]	0.094 [2.4]	**0.020 [0.5]** 0.025 [0.6]	20	
UT-1/2	0.75	0.9	7.5k	0.330 [8.4]	0.094 [2.4]	**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
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	0.675 [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
UT-5A	5.0	6.5	65k	0.970 [24.6]	0.250 [5.2]	0.032 [0.8]	390	
UT-6	5.0	6.5	95k	1.025 [26.0]	0.312 [7.9]	0.040 [1.0]	504	RW-67
UT-7A	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]	0.032 [0.8]	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
UT-15	15	-	320k	1.810 [46.0]	0.510 [13.0]	0.050 [1.5]	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
[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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Standard Package Quantities				
	Bulk	10” Reel	12” Reel	14” Reel
UT-1	Bulk Only, No T&R			
UT-1/2A	1000	2000	3000	5000
UT-1/2	1000	2000	3000	5000
UT-1A	1000	2000	3000	5000
UT-2	1000	2000	3000	5000
UT-2A	1000	500	1500	3000
UT-2B	1000	500	1500	3000
UT-2C	1000	500	1000	1500
UT-2E	1000	500	1000	1500
UT-3	1000	N/A	500	1000
UT-5	1000	N/A	500	1000
UT-5A	1000	500	1000	1500
UT-6	1000	N/A	500	1000
UT-7A	1000	N/A	500	750
UT-7B	1000	N/A	500	750
UT-7C	1000	N/A	500	750
UT-10	1000	N/A	500	750

Ordering Information

For Non-Inductive Windings / insert the letter “N” (i.e. UTN-5)
Part Description: Part Type - Resistance - Tolerance - TCR (If not standard)
Example: UT-5 25 kOhms 0.1%

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