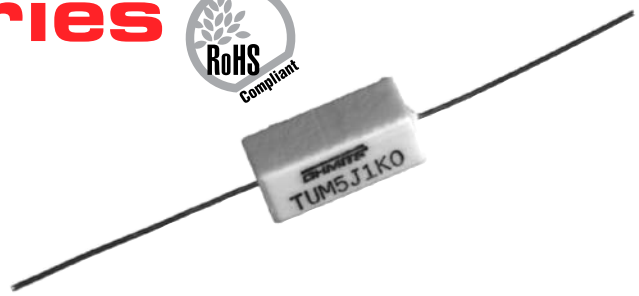
TUM/TUW Series

Ceramic Housed Axial Terminal Power

The TUM/TUW Series resistors are our most economical power resistors. They are recommended for commercial applications where low cost is critical.

They are available in small standard packs for standard values, or bulk packaged for even lower costs.



FEATURES

- Economical Commercial Grade for general purpose use
- Wirewound and Metal Oxide construction
- Wide resistance range
- Flameproof inorganic construction

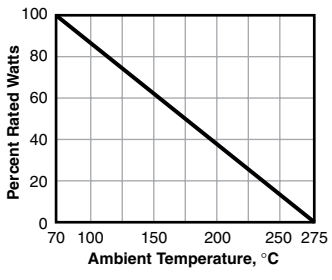
SERIES SPECIFICATIONS

Series	Wattage	Ohms	Voltage	Element
TUW3	3	0.01-39	350	Wirewound
TUW5	5	0.01-47	350	Wirewound
TUW7	7	0.10-680	500	Wirewound
TUW10	10	0.10-990	750	Wirewound
TUW15	15	0.10-1000	1000	Wirewound
TUM3	3	180-33K	350	Metal oxide
TUM5	5	220-50	350	Metal oxide
TUM7	7	910-50K	500	Metal oxide
TUM10	10	1000-50K	750	Metal oxide
TUM15	15	1100-150K	1000	Metal oxide

CHARACTERISTICS

Housing	Ceramic
Core	Fiberglass or metal oxide
Filling	Cement based
Tolerance	5% standard
TCR	0.01-20Ω ±400ppm/°C 20-150KΩ ±350ppm/°C
Dielectric withstanding voltage	1,000VAC
Short time overload	TUW: 10x rated power for 5 sec. TUM: 5x rated power for 5 sec.

Derating Curve



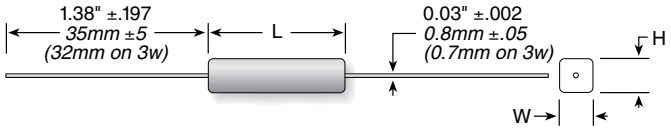
(continued)

TUM/TUW Series

Ceramic Housed Axial Terminal Power

DIMENSIONS

(in./mm)



Series	Wattage	Length (±1mm)	Height (±1mm)	Width (±1mm)
TUW3	3	0.87 / 22	0.31 / 8	0.31 / 8
TUW5	5	0.87 / 22	0.35 / 9	0.39 / 10
TUW7	7	1.48 / 35	0.35 / 9	0.39 / 10
TUW10	10	1.93 / 49	0.35 / 9	0.39 / 10
TUW15	15	1.93 / 49	0.45/11.5	0.49 / 12.5
TUM3	3	0.87 / 22	0.31 / 8	0.31 / 8
TUM5	5	0.87 / 22	0.35 / 9	0.39 / 10
TUM7	7	1.48 / 35	0.35 / 9	0.39 / 10
TUM10	10	1.93 / 49	0.35 / 9	0.39 / 10
TUM15	15	1.93 / 49	0.45/11.5	0.49 / 12.5

ORDERING INFORMATION

Tolerance J = 5% | E = RoHS compliant

T U M 3 J 8 R 2 E

Series
TUM = Ceramic Housed Metal Oxide
TUW = Ceramic Housed Wirewound

Wattage
3
5
7
10
15

Resistance Value
Example:
R50=0.50Ω
1R0=1Ω
8R2=8.2Ω
250=250Ω
1K0=1,000Ω
8K2=8,200Ω
10K=10,000Ω

Standard part numbers for TUW/TUM series

Ohmic value	Part No. Prefix ➤ Suffix ▼	Wattage 3 TUW3J–	5 TUW5J–	7 TUW7J–	10 TUW10J–	15 TUW15J–
0.01	R01E	✔	✔			
0.01	R01E	✔	✔			
0.02	R02E	✔	✔			
0.04	R04E	✔	✔			
0.05	R05E	✔	✔			
0.10	R10E	✔	✔	✔	✔	✔
0.15	R15E	✔	✔	✔	✔	✔
0.20	R20E	✔	✔	✔	✔	✔
0.27	R27E	✔	✔	✔	✔	✔
0.30	R30E	✔	✔	✔	✔	✔
0.33	R33E	✔	✔	✔	✔	✔
0.39	R39E	✔	✔	✔	✔	✔
0.43	R43E	✔	✔	✔	✔	✔
0.47	R47E	✔	✔	✔	✔	✔
0.56	R56E	✔	✔	✔	✔	✔
0.68	R68E	✔	✔	✔	✔	✔
0.75	R75E	✔	✔	✔	✔	✔
0.82	R82E	✔	✔	✔	✔	✔
1.0	1R0E	✔	✔	✔	✔	✔
1.5	1R5E	✔	✔	✔	✔	✔
2.0	2R0E	✔	✔	✔	✔	✔
2.7	2R7E	✔	✔	✔	✔	✔
3.0	3R0E	✔	✔	✔	✔	✔
3.3	3R3E	✔	✔	✔	✔	✔
3.9	3R9E	✔	✔	✔	✔	✔
4.3	4R3E	✔	✔	✔	✔	✔
4.7	4R7E	✔	✔	✔	✔	✔
5.6	5R6E	✔	✔	✔	✔	✔
6.8	6R8E	✔	✔	✔	✔	✔
7.5	7R5E	✔	✔	✔	✔	✔
8.2	8R2E	✔	✔	✔	✔	✔
10	10RE	✔	✔	✔	✔	✔
15	15RE	✔	✔	✔	✔	✔
20	20RE	✔	✔	✔	✔	✔
27	27RE	✔	✔	✔	✔	✔
30	30RE	✔	✔	✔	✔	✔
33	33RE	✔	✔	✔	✔	✔
39	39RE	✔	✔	✔	✔	✔
43	43RE	✔	✔	✔	✔	✔
47	47RE	✔	✔	✔	✔	✔
56	56RE	✔	✔	✔	✔	✔
68	68RE	✔	✔	✔	✔	✔
75	75RE	✔	✔	✔	✔	✔
82	82RE	✔	✔	✔	✔	✔
100	100E	✔	✔	✔	✔	✔
150	150E	✔	✔	✔	✔	✔
200	200E	✔	✔	✔	✔	✔
270	270E	✔	✔	✔	✔	✔
300	300E	✔	✔	✔	✔	✔
330	330E	✔	✔	✔	✔	✔
390	390E	✔	✔	✔	✔	✔
430	430E	✔	✔	✔	✔	✔
470	470E	✔	✔	✔	✔	✔
560	560E	✔	✔	✔	✔	✔
680	680E	✔	✔	✔	✔	✔
750	750E	✔	✔	✔	✔	✔
820	820E	✔	✔	✔	✔	✔
1000	1K0	✔	✔	✔	✔	✔
1500	1K5	✔	✔	✔	✔	✔
2000	2K0	✔	✔	✔	✔	✔
2700	2K7	✔	✔	✔	✔	✔
3000	3K0	✔	✔	✔	✔	✔
3300	3K3	✔	✔	✔	✔	✔
3900	3K9	✔	✔	✔	✔	✔
4300	4K3	✔	✔	✔	✔	✔
4700	4K7	✔	✔	✔	✔	✔
5600	5K6	✔	✔	✔	✔	✔
6800	6K8	✔	✔	✔	✔	✔
7500	7K5	✔	✔	✔	✔	✔
8200	8K2	✔	✔	✔	✔	✔
10000	10K	✔	✔	✔	✔	✔

Shaded area: change prefix to TUM

Mouser Electronics

Authorized Distributor

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Ohmite:

TUM7J1K0 TUW10J150 TUW5JR82 TUW15J150 TUM3J330 TUW3JR15 TUW5J8R2 TUW10JR20 TUW5J2R7 TUW5J3R9 TUW5J1R0 TUM10J2K7 TUW7J10R TUW5J2R0 TUM5J8K2 TUM5J820 TUW10JR33 TUW10JR82 TUW7J27R TUW3J39R TUW10J750 TUW7J3R0 TUW15J1K0 TUW3J8R2 TUM7J2K0 TUW10J3R9 TUW7J8R2 TUW5JR68 TUW15J100 TUW5JR10 TUW7J33R TUW5J4R3 TUW15JR15 TUW5J4R7 TUW10J7R5 TUW7J390 TUW15J2R0 TUM3J390 TUW3J27R TUW15J1R5 TUW10J1R0 TUW10JR30 TUW3J6R8 TUW10JR75 TUW15J10R TUW3JR47 TUW7J1R0 TUW5J1R5 TUW3J100 TUW15JR39 TUW5J27R TUM3J2K7 TUW15J3R0 TUW10J330 TUW10J2R0 TUM7J10K TUW7J82R TUW15J20R TUM3J470 TUW3J33R TUW7J6R8 TUW7JR20 TUW10J5R6 TUW7J100 TUM5J1K5 TUW3JR10 TUW15J390 TUW3J2R0 TUM15J6K8 TUW10J20R TUM5J470 TUM10J7K5 TUW5JR56 TUW15J47R TUW10J470 TUW15J200 TUW5J15R TUW5J33R TUW3J47R TUW7J2R0 TUW5J3R0 TUW3J82R TUW7J75R TUW10J4R3 TUW5J39R TUM5J3K3 TUW10J680 TUW5J56R TUW5J150 TUM3J10K TUM3J1K5 TUW5J30R TUW3JR20 TUW10J2R7 TUW5JR33 TUW15J27R TUW3JR82 TUW5J200 TUW5JR27 TUW3J1R0