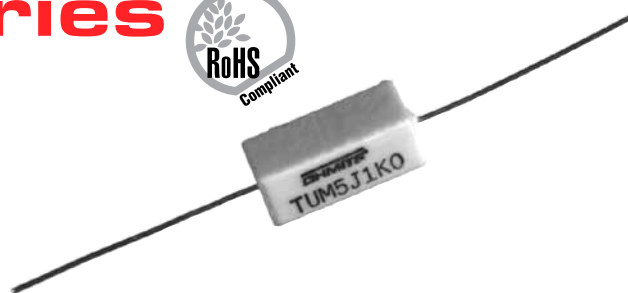


TUM/TUW Series

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

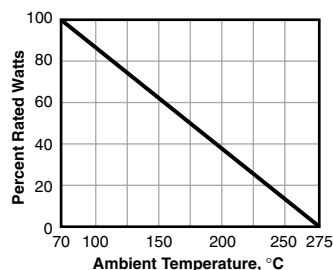
SERIES SPECIFICATIONS

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
TUW25	25	2.00-1200	1000	Wirewound
TUM3	3	180-33K	350	Metal oxide
TUM5	5	220-50K	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



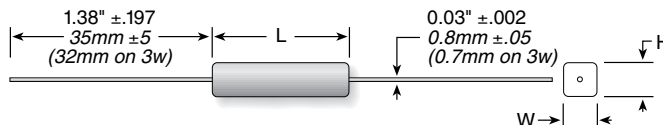
(continued)

TUM/TUW Series

Ceramic Housed Axial Terminal Power

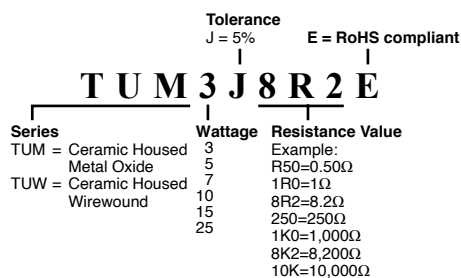
DIMENSIONS

(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
TUW25	25	2.52 / 64	0.53/13.5	0.57 / 14.5
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



Standard part numbers for TUW/TUM series

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

Shaded area: change prefix to TUM

Mouser Electronics

Authorized Distributor

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[TUW3J33RE](#) [TUM5J560E](#) [TUM15J10KE](#) [TUW5JR82E](#) [TUW15J2R0E](#) [TUW5JR20E](#) [TUW3JR82E](#) [TUW3J68RE](#)
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[TUW3J2R0E](#) [TUM5J2K0E](#) [TUW7J82RE](#) [TUM5J7K5E](#) [TUM5J4K7E](#) [TUM5J1K0E](#) [TUM5J10KE](#) [TUM7J10KE](#)
[TUW10J56RE](#) [TUW7J150E](#) [TUM5J2K7E](#) [TUW3J10RE](#) [TUW15J150E](#) [TUM10J10KE](#) [TUW15J750E](#) [TUW15J470E](#)
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[TUW5JR68E](#) [TUW5J2R7E](#) [TUM15J3K9E](#) [TUW10JR75E](#) [TUW3J27RE](#) [TUW3J82RE](#) [TUM15J4K7E](#) [TUW5J68RE](#)
[TUW3J20RE](#) [TUW10J20RE](#) [TUM10J7K5E](#) [TUM10J4K7E](#) [TUW10J150E](#) [TUM3J5K6E](#) [TUW7JR27E](#) [TUW15J2R7E](#)
[TUW5J56RE](#) [TUW10J2R0E](#) [TUW15JR39E](#) [TUW10J470E](#) [TUW7J2R7E](#) [TUM3J10KE](#) [TUW10J6R8E](#) [TUW5J33RE](#)
[TUW5J1R0E](#) [TUW10J390E](#) [TUW5JR56E](#) [TUW5J4R3E](#)