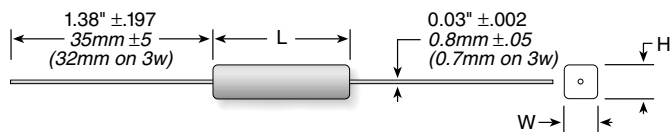


# TUM/TUW Series

## Ceramic Housed Axial Terminal Power



| Series | Wattage | Ohms      | Dimensions (in. / mm) |               |              | Voltage | Element     |
|--------|---------|-----------|-----------------------|---------------|--------------|---------|-------------|
|        |         |           | Length (±1mm)         | Height (±1mm) | Width (±1mm) |         |             |
| TUW3   | 3       | 0.01-39   | 0.87 / 22             | 0.31 / 8      | 0.31 / 8     | 350     | Wirewound   |
| TUW5   | 5       | 0.01-47   | 0.87 / 22             | 0.35 / 9      | 0.39 / 10    | 350     | Wirewound   |
| TUW7   | 7       | 0.10-680  | 1.48 / 35             | 0.35 / 9      | 0.39 / 10    | 500     | Wirewound   |
| TUW10  | 10      | 0.10-990  | 1.93 / 49             | 0.35 / 9      | 0.39 / 10    | 750     | Wirewound   |
| TUW15  | 15      | 0.10-1000 | 1.93 / 49             | .453/11.5     | 0.49 / 12.5  | 1000    | Wirewound   |
| TUM3   | 3       | 180-33K   | 0.87 / 22             | 0.31 / 8      | 0.31 / 8     | 350     | Metal oxide |
| TUM5   | 5       | 220-50K   | 0.87 / 22             | 0.35 / 9      | 0.39 / 10    | 350     | Metal oxide |
| TUM7   | 7       | 910-50K   | 1.48 / 35             | 0.35 / 9      | 0.39 / 10    | 500     | Metal oxide |
| TUM10  | 10      | 1000-50K  | 1.93 / 49             | 0.35 / 9      | 0.39 / 10    | 750     | Metal oxide |
| TUM15  | 15      | 1100-150K | 1.93 / 49             | .453/11.5     | 0.49 / 12.5  | 1000    | Metal oxide |

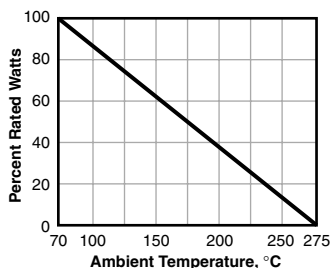
The TUM/TUW Series resistors are our most economical power resistors. They are recommended for commercial applications where low cost is critical.

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

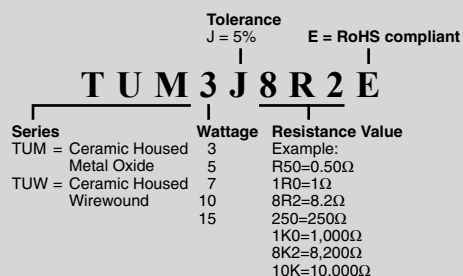
## DERATING CURVE



## SPECIFICATIONS

- Material**  
**Housing:** Ceramic  
**Core:** Fiberglass or metal oxide  
**Filling:** Cement based  
**Electrical**  
**Tolerance:** 5% standard  
**Temperature coeff.:**  
 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.

## 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 |   |   |    |    |       |      |   |   |   |   |   |
|-------------|------------------------|---------|---|---|----|----|-------------|------------------------|---------|---|---|----|----|-------------|------------------------|---------|---|---|----|----|-------|------|---|---|---|---|---|
|             |                        | 3       | 5 | 7 | 10 | 15 |             |                        | 3       | 5 | 7 | 10 | 15 |             |                        | 3       | 5 | 7 | 10 | 15 |       |      |   |   |   |   |   |
| 0.01        | R01E                   | ✓       | ✓ | ✓ | ✓  | ✓  | 1.0         | 1R0E                   | ✓       | ✓ | ✓ | ✓  | ✓  | 33          | 33RE                   | ✓       | ✓ | ✓ | ✓  | ✓  | 680   | 680E | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0.01        | R01E                   | ✓       | ✓ | ✓ | ✓  | ✓  | 1.5         | 1R5E                   | ✓       | ✓ | ✓ | ✓  | ✓  | 39          | 39RE                   | ✓       | ✓ | ✓ | ✓  | ✓  | 750   | 750E | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0.02        | R02E                   | ✓       | ✓ | ✓ | ✓  | ✓  | 2.0         | 2R0E                   | ✓       | ✓ | ✓ | ✓  | ✓  | 43          | 43RE                   | ✓       | ✓ | ✓ | ✓  | ✓  | 820   | 820E | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0.04        | R04E                   | ✓       | ✓ | ✓ | ✓  | ✓  | 2.7         | 2R7E                   | ✓       | ✓ | ✓ | ✓  | ✓  | 47          | 47RE                   | ✓       | ✓ | ✓ | ✓  | ✓  | 1000  | 1K0  | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0.05        | R05E                   | ✓       | ✓ | ✓ | ✓  | ✓  | 3.0         | 3R0E                   | ✓       | ✓ | ✓ | ✓  | ✓  | 56          | 56RE                   | ✓       | ✓ | ✓ | ✓  | ✓  | 1500  | 1K5  | ✓ | ✓ | ✓ | ✓ | ✓ |
| 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                   | ✓       | ✓ | ✓ | ✓  | ✓  |       |      | ✓ | ✓ | ✓ | ✓ | ✓ |

Check product availability at [www.ohmite.com](http://www.ohmite.com)

Shaded area: change prefix to TUM

