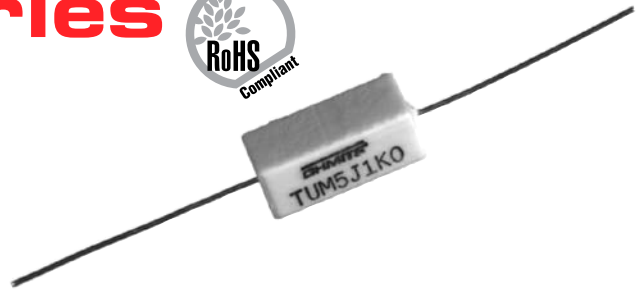


# TUM/TUW Series

## 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

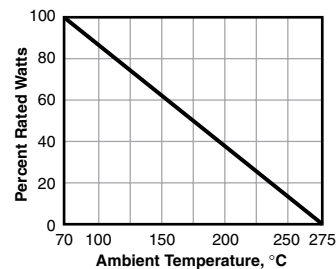
### SERIES SPECIFICATIONS

| 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

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

#### Derating Curve



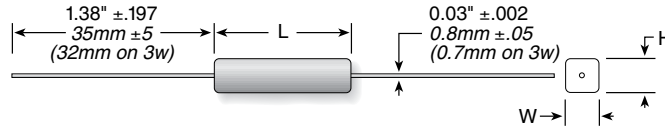
(continued)

# TUM/TUW Series

## Ceramic Housed Axial Terminal Power

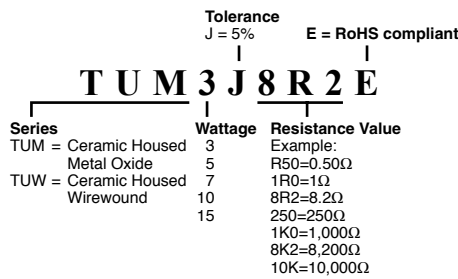
### DIMENSIONS

(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



### Standard part numbers for TUW/TUM series

| Ohmic value | Part No.<br>Prefix ▶<br>Suffix ▼ | Wattage |   |   |    |    | Ohmic value | Part No.<br>Prefix ▶<br>Suffix ▼ | Wattage |   |   |    |    | Ohmic value | Part No.<br>Prefix ▶<br>Suffix ▼ | Wattage |   |   |    |    |       |      |   |   |   |   |   |
|-------------|----------------------------------|---------|---|---|----|----|-------------|----------------------------------|---------|---|---|----|----|-------------|----------------------------------|---------|---|---|----|----|-------|------|---|---|---|---|---|
|             |                                  | 3       | 5 | 7 | 10 | 15 |             |                                  | 3       | 5 | 7 | 10 | 15 |             |                                  | 3       | 5 | 7 | 10 | 15 |       |      |   |   |   |   |   |
| 0.01        | R01E                             | ✓       | ✓ |   |    |    | 1.0         | R0E                              | ✓       | ✓ | ✓ | ✓  | ✓  | 33          | 33RE                             | ✓       | ✓ | ✓ | ✓  | ✓  | 680   | 680E | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0.01        | R01E                             | ✓       | ✓ |   |    |    | 1.5         | R05E                             | ✓       | ✓ | ✓ | ✓  | ✓  | 39          | 39RE                             | ✓       | ✓ | ✓ | ✓  | ✓  | 750   | 750E | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0.02        | R02E                             | ✓       | ✓ |   |    |    | 2.0         | R0E                              | ✓       | ✓ | ✓ | ✓  | ✓  | 43          | 43RE                             | ✓       | ✓ | ✓ | ✓  | ✓  | 820   | 820E | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0.04        | R04E                             | ✓       | ✓ |   |    |    | 2.7         | R07E                             | ✓       | ✓ | ✓ | ✓  | ✓  | 47          | 47RE                             | ✓       | ✓ | ✓ | ✓  | ✓  | 1000  | 1K0  | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0.05        | R05E                             | ✓       | ✓ |   |    |    | 3.0         | R0E                              | ✓       | ✓ | ✓ | ✓  | ✓  | 56          | 56RE                             | ✓       | ✓ | ✓ | ✓  | ✓  | 1500  | 1K5  | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0.10        | R10E                             | ✓       | ✓ | ✓ | ✓  | ✓  | 3.3         | R03E                             | ✓       | ✓ | ✓ | ✓  | ✓  | 68          | 68RE                             | ✓       | ✓ | ✓ | ✓  | ✓  | 2000  | 2K0  | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0.15        | R15E                             | ✓       | ✓ | ✓ | ✓  | ✓  | 3.9         | R09E                             | ✓       | ✓ | ✓ | ✓  | ✓  | 75          | 75RE                             | ✓       | ✓ | ✓ | ✓  | ✓  | 2700  | 2K7  | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0.20        | R20E                             | ✓       | ✓ | ✓ | ✓  | ✓  | 4.3         | R03E                             | ✓       | ✓ | ✓ | ✓  | ✓  | 82          | 82RE                             | ✓       | ✓ | ✓ | ✓  | ✓  | 3000  | 3K0  | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0.27        | R27E                             | ✓       | ✓ | ✓ | ✓  | ✓  | 4.7         | R07E                             | ✓       | ✓ | ✓ | ✓  | ✓  | 100         | 100E                             | ✓       | ✓ | ✓ | ✓  | ✓  | 3300  | 3K3  | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0.30        | R30E                             | ✓       | ✓ | ✓ | ✓  | ✓  | 5.6         | R06E                             | ✓       | ✓ | ✓ | ✓  | ✓  | 150         | 150E                             | ✓       | ✓ | ✓ | ✓  | ✓  | 3900  | 3K9  | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0.33        | R33E                             | ✓       | ✓ | ✓ | ✓  | ✓  | 6.8         | R08E                             | ✓       | ✓ | ✓ | ✓  | ✓  | 200         | 200E                             | ✓       | ✓ | ✓ | ✓  | ✓  | 4300  | 4K3  | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0.39        | R39E                             | ✓       | ✓ | ✓ | ✓  | ✓  | 7.5         | R05E                             | ✓       | ✓ | ✓ | ✓  | ✓  | 270         | 270E                             | ✓       | ✓ | ✓ | ✓  | ✓  | 4700  | 4K7  | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0.43        | R43E                             | ✓       | ✓ | ✓ | ✓  | ✓  | 8.2         | R02E                             | ✓       | ✓ | ✓ | ✓  | ✓  | 300         | 300E                             | ✓       | ✓ | ✓ | ✓  | ✓  | 5600  | 5K6  | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0.47        | R47E                             | ✓       | ✓ | ✓ | ✓  | ✓  | 10          | R0E                              | ✓       | ✓ | ✓ | ✓  | ✓  | 330         | 330E                             | ✓       | ✓ | ✓ | ✓  | ✓  | 6800  | 6K8  | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0.56        | R56E                             | ✓       | ✓ | ✓ | ✓  | ✓  | 15          | R0E                              | ✓       | ✓ | ✓ | ✓  | ✓  | 390         | 390E                             | ✓       | ✓ | ✓ | ✓  | ✓  | 7500  | 7K5  | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0.68        | R68E                             | ✓       | ✓ | ✓ | ✓  | ✓  | 20          | R0E                              | ✓       | ✓ | ✓ | ✓  | ✓  | 430         | 430E                             | ✓       | ✓ | ✓ | ✓  | ✓  | 8200  | 8K2  | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0.75        | R75E                             | ✓       | ✓ | ✓ | ✓  | ✓  | 27          | R0E                              | ✓       | ✓ | ✓ | ✓  | ✓  | 470         | 470E                             | ✓       | ✓ | ✓ | ✓  | ✓  | 10000 | 10K  | ✓ | ✓ | ✓ | ✓ | ✓ |
| 0.82        | R82E                             | ✓       | ✓ | ✓ | ✓  | ✓  | 30          | R0E                              | ✓       | ✓ | ✓ | ✓  | ✓  | 560         | 560E                             | ✓       | ✓ | ✓ | ✓  | ✓  |       |      |   |   |   |   |   |

Shaded area: change prefix to TUM

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