

TSC & TVC Series

Tubular Power Wirewound Resistors



- Resistances from 1 to 48kOhms
- Power Rating 5 to 225Watts
- Resistance Tolerances to $\pm 5\%$



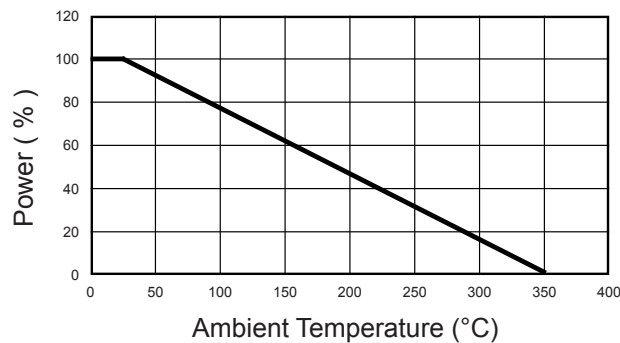
Options:

- Special Tolerances
- Ayrton-Perry / Non-Inductive Windings
- Fixed / Tapped / or Adjustable
- Quick Connect Terminals
- Mounting Brackets

SPECIFICATIONS

| Specification | Value |
|-------------------------|--|
| Resistance Range | 1 Ω to 48kOhms |
| Tolerances | $\pm 5\%$ Standard (Call Factory for Other Tolerances) |
| Temperature Coefficient | >20R : ± 200 ppm/K 1R to 20R : ± 260 ppm/K |
| Temperature Range | -55°C to +350°C |
| Dielectric Strength | 1000 VAC |
| Overload | 10X Rated Power / 5s |

Power Derating Curve



Ordering Information

For Non-Inductive Windings / insert the letter "N" (i.e. TSCN-50)

TSC-50 and larger parts are Available with 0.250 x 0.032 Quick Connect Terminal / Add "QC" to the Part Number.

Push-in friction grip mounting brackets are Available / Add "BKTS" to Part Number

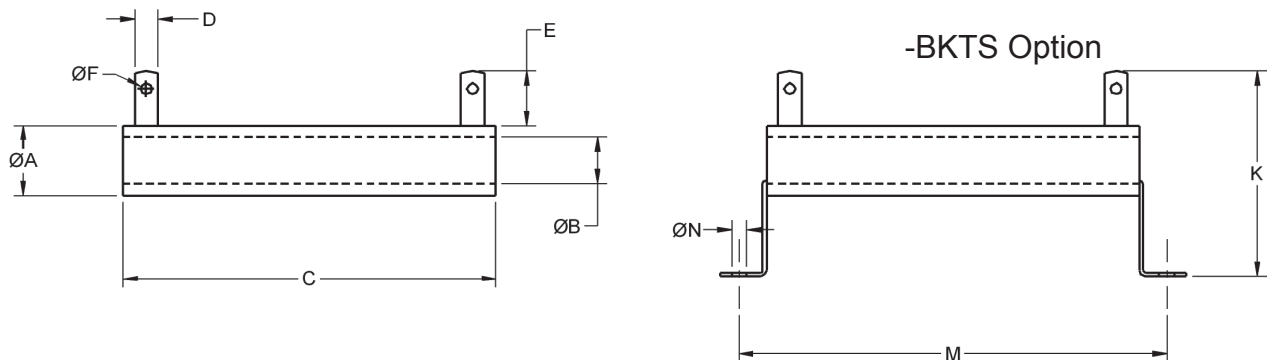
Part Number - Resistance - Tolerance - TCR (If not standard) - Quick-Connects - Brackets

Example: TSC-75 100 Ohm 5% QC BKTS

SPECIFICATIONS (continued)

| Type | Wattage Rating | Resistance Range ¹ | Dimensions | | | Terminal Size | BKTS - Mounting Dimensions | | |
|---------|----------------|-------------------------------|--------------------------|--------------------------|--------------------------|---------------|----------------------------|--------------------------|--------------------------|
| | | | A ±0.062" [±1.6mm] | B ±0.031" [±0.8mm] | C ±0.062" [±1.6mm] | | K ±0.062" [±1.6mm] | M ±0.062" [±1.6mm] | C ±0.020" [±0.5mm] |
| TSC-5 | 5 | 1 - 1k | 0.312 [7.9] | 0.188 [4.8] | 1.00 [25.4] | T1 | - | 1.44 [36.6] | 0.146 [3.7] |
| TSC-10 | 10 | 1 - 1k | 0.312 [7.9] | 0.188 [4.8] | 1.75 [44.4] | T1 | 0.938 [23.8] | 2.19 [55.6] | 0.146 [3.7] |
| TSC-20 | 20 | 1 - 10k | 0.250 [6.4] | 0.188 [4.8] | 2.00 [50.8] | T1 | - | 2.50 [63.5] | 0.146 [3.7] |
| TSC-25 | 25 | 1 - 10k | 0.563 [14.3] | 0.312 [7.9] | 2.00 [50.8] | T2 | 1.688 [42.9] | 2.75 [69.9] | 0.161 [4.1] |
| TSC-25A | 30 | 1 - 10k | 0.750 [19.1] | 0.500 [12.7] | 2.00 [50.8] | T2 | 2.312 [58.7] | 2.88 [73.2] | 0.161 [4.1] |
| TSC-25B | 30 | 1 - 10k | 0.625 [15.9] | 0.453 [11.5] | 2.00 [50.8] | T2 | 1.688 [42.9] | 2.63 [66.8] | 0.161 [4.1] |
| TSC-50 | 50 | 1.5 - 15k | 0.563 [14.3] | 0.312 [7.9] | 4.00 [102] | T2 | 1.688 [42.9] | 4.75 [121] | 0.161 [4.1] |
| TSC-50A | 60 | 1.5 - 15k | 0.750 [19.1] | 0.500 [12.7] | 4.00 [102] | T2 | 2.312 [58.7] | 4.88 [124] | 0.196 [5.0] |
| TSC-50B | 70 | 1.5 - 15k | 0.750 [19.1] | 0.547 [13.9] | 4.50 [114] | T2 | 2.312 [58.7] | 5.38 [137] | 0.196 [5.0] |
| TSC-75 | 75 | 1.5 - 15k | 0.563 [14.3] | 0.312 [7.9] | 6.00 [152] | T2 | 1.688 [42.9] | 6.75 [171] | 0.161 [4.1] |
| TSC-75A | 90 | 2.7 - 20k | 0.750 [19.1] | 0.500 [12.7] | 6.00 [152] | T2 | 2.312 [58.7] | 6.88 [175] | 0.196 [5.0] |
| TSC-100 | 100 | 2.7 - 20k | 0.750 [19.1] | 0.500 [12.7] | 6.50 [165] | T2 | 2.312 [58.7] | 7.38 [187] | 0.196 [5.0] |
| TSC-130 | 130 | 2.7 - 20k | 1.125 [28.6] | 0.750 [19.1] | 6.50 [165] | T3 | 2.812 [71.4] | 7.38 [187] | 0.196 [5.0] |
| TSC-160 | 175 | 3.3 - 39k | 1.125 [28.6] | 0.750 [19.1] | 8.50 [216] | T3 | 2.812 [71.4] | 9.38 [238] | 0.196 [5.0] |
| TSC-200 | 225 | 3.3 - 47k | 1.125 [28.6] | 0.750 [19.1] | 10.50 [267] | T3 | 2.812 [71.4] | 11.38 [289] | 0.196 [5.0] |

¹ For non-inductive windings / divide maximum resistance by 2



| Terminal Size | D ±0.010" [±6.4mm] | E ±0.032" [±0.8mm] | F ±0.005" [±0.13mm] |
|---------------|--------------------|--------------------|---------------------|
| T1 | 0.188 [4.8] | 0.438 [11.1] | 0.104 [2.6] |
| T2 | 0.250 [6.3] | 0.563 [14.3] | 0.166 [4.2] |
| T3 | 0.312 [7.9] | 0.625 [15.9] | 0.196 [5.0] |