

Type TE Series

Key Features

- Mullite Coated
- Up to 2500W Power Rating
- Corrugated Ribbon Element for Rapid Cooling
- 3x Overload for 5 Seconds
- Custom Terminations / Leads Available
- Flameproof Construction

Applications

- Large Electrical and Production Machinery
- Load Test Simulation
- Motor Start/Stop Cycles
- Dynamic Braking
- Equipment Discharge



TE Connectivity is a leading supplier of standard and custom-designed power resistors for industrial, control and general- purpose applications.

The TE range of Mullite coated tubular ceramic core resistors have a corrugated ribbon element for rapid cooling effect to enable up to 2500W power handling capability. Designed for heavy duty machinery, electrical equipment, motor control etc. requiring stability and reliability.

Test Method - Electrical

| Test Item | Specification | Test Details |
|------------------------|------------------------------------|--|
| Life (Moisture Load): | 40°C 95% RH 1000 hour on-off cycle | $\Delta R \pm 3.0\%$ |
| Short Term Overload: | 3 x rated wattage, 5 seconds | - |
| Flammability: | 16x rated power, 5 minutes | No Flames |
| Insulation Resistance: | DC 500V | Over 100M Ω |
| Voltage Resistibility: | AC 2500V 1 minute | Free of damage or flying arc |
| Resistor Strength: | 200N, 30 seconds | Free of visible damage |
| Terminal Strength: | Ual: 45N, 30 seconds | Free of visible damage $R \leq \pm (1\%R + 0.05\Omega)$ |

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Specifications- Electrical

| | |
|-------------------------|---|
| Resistance Range (Ohms) | See Resistance Range Chart below |
| Selection Series | E12 |
| Tolerance | +/-5%, +/-10% as per Resistance Range Chart below |

| Type | Resistance Value | Tolerance |
|-------|------------------|-----------|
| 50W | R10 – R99 | 10% |
| | 1R0 – 2K7 | 5% |
| 60W | R10 – R99 | 10% |
| | 1R0 – 2K7 | 5% |
| 80W | R10 – R99 | 10% |
| | 1R0 – 2K7 | 5% |
| 100W | 1R0 – 2K7 | 5% |
| 120W | 1R0 – 2K7 | 5% |
| 150W | 1R0 – 2K7 | 5% |
| 200W | 1R0 – 2K7 | 5% |
| 300W | 1R0 – 2K7 | 5% |
| 400W | 1R0 – 2K7 | 5% |
| 500W | 1R0 – 2K7 | 5% |
| 600W | 1R0 – 2K7 | 5% |
| 750W | 1R0 – 2K7 | 5% |
| 1000W | 1R0 – 2K7 | 5% |
| 1200W | 1R0 – 2K7 | 5% |
| 1500W | 1R0 – 2K7 | 5% |
| 2000W | 1R0 – 2K7 | 5% |
| 2500W | 1R0 – 2K7 | 5% |

Characteristics - Environmental

| | |
|--|---------------------------------------|
| Temperature Coefficient of Resistance: | Within ± 440 ppm/ $^{\circ}$ C |
| Rated Power Free Air: | 50 to 2500 Watts |
| Operating Temperature Range | -25 $^{\circ}$ C to +225 $^{\circ}$ C |

Derating Curve



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Temperature Rise



Dimensions



| Rated Power (W) | Dimensions | | | | | | | | | | |
|-----------------|------------|---------|---------|--------|-----|----|----|---------|----|-----|-----|
| | L1 (±2) | L2 (±5) | L3 (±3) | D (±2) | B | B1 | H | H1 (±3) | N | d | O |
| 50 | 102 | 124 | 146 | 28 | 6.5 | 28 | 28 | 61 | 10 | 4.5 | 1.2 |
| 60 | 102 | 124 | 146 | 28 | 6.5 | 28 | 28 | 61 | 10 | 4.5 | 1.2 |
| 80 | 152 | 174 | 196 | 28 | 6.5 | 28 | 28 | 61 | 10 | 4.5 | 1.2 |
| 100 | 182 | 204 | 226 | 28 | 6.5 | 28 | 28 | 61 | 10 | 4.5 | 1.2 |
| 120 | 182 | 204 | 226 | 28 | 6.5 | 28 | 28 | 61 | 10 | 4.5 | 1.2 |
| 150 | 195 | 217 | 239 | 40 | 8 | 40 | 41 | 81 | 12 | 5.5 | 2.0 |
| 200 | 195 | 217 | 239 | 40 | 8 | 40 | 41 | 81 | 12 | 5.5 | 2.0 |
| 300 | 282 | 304 | 326 | 40 | 8 | 40 | 41 | 81 | 12 | 5.5 | 2.0 |
| 400 | 282 | 304 | 326 | 40 | 8 | 40 | 41 | 81 | 12 | 5.5 | 2.0 |
| 500 | 316 | 338 | 360 | 50 | 8 | 50 | 45 | 101 | 16 | 6 | 2.0 |
| 600 | 345 | 367 | 389 | 40 | 8 | 40 | 41 | 81 | 12 | 5.5 | 2.0 |
| 750 | 316 | 338 | 360 | 50 | 8 | 50 | 45 | 101 | 16 | 6 | 2.0 |
| 1000 | 300 | 325 | 350 | 60 | 8.5 | 60 | 60 | 119 | 16 | 6 | 2.0 |
| 1200 | 415 | 440 | 465 | 60 | 8.5 | 60 | 60 | 119 | 16 | 6 | 2.0 |
| 1500 | 415 | 440 | 465 | 60 | 8.5 | 60 | 60 | 119 | 16 | 6 | 2.0 |
| 2000 | 510 | 535 | 560 | 60 | 8.5 | 60 | 60 | 119 | 16 | 6 | 2.0 |
| 2500 | 600 | 625 | 650 | 60 | 8.5 | 60 | 60 | 119 | 16 | 6 | 2.0 |

How to Order

| TE | 50 | B | 1K0 | J |
|---|--|---|---|---|
| Common Part TE - High Power Wire Wound Resistor | Power Rating 50 - 50 Watt 60 - 60 Watt 80 - 80 Watt 100 - 100 Watt etc. | Mounting A - Without Bracket B - With Bracket (Standard) | Resistance Value 1 ohm (1000 milliohms) 1R0 10 ohm (10 ohms) 10R 100R ohms (100 ohms) 100R 1k ohms (1000 ohms) 1K0 | Tolerance J - ±5% K - ±10% |

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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
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- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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