

Aluminium Housed Power Resistors

Type THS Series

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Tyco are the leading European supplier of standard and custom designed aluminium housed resistors for general-purpose use, power supplies, power generation and the traction industry. The THS is a range of extremely stable, high quality wire wound resistors capable of dissipating high power in a limited space with relatively low surface temperature. The power is rapidly dissipated as heat through the aluminium housing to a specified heatsink. The resistors are made from quality materials for optimum reliability and stability. Tyco can test resistors to conform to relevant international, MIL or customer specifications.

Key Features

- **Established product with proven reliability**
 - Leading the way with over 50 years of design and manufacturing experience
- **10 Watts to 75 Watts**
- **Versatile product**
 - Bench mark in every industry

Applications

- Braking Resistor
- Balancing Resistor
- Capacitor Charging & Discharging
- Crowbar
- Filter
- Electrical Machinery general use
- Available through Distribution

Characteristics - Electrical THS - 10 Watts to 75 Watts

| | THS10 | THS15 | THS25 | THS50 | THS75 |
|---|--------|--------|--------|--------|--------|
| Dissipation @ 25°C with Heatsink (Watts): | 10 | 15 | 25 | 50 | 75 |
| Without Heatsink: | 5.5 | 8 | 12.5 | 20 | 40 |
| Ohmic Value Min (Ohms): | R01 | R01 | R01 | R01 | R05 |
| Max: | 10K | 15K | 36K | 50K | 50K |
| Max. Working Voltage (DC or ACrms) Volts: | 160 | 265 | 550 | 1250 | 1400 |
| Dielectric Strength (AC Peak) Volts: | 1400 | 1400 | 2500 | 2500 | 5000 |
| Stability (% resistance change, 1000 hours) (%): | 1 | 1 | 1 | 1 | 2 |
| Standard Heatsink - Area (mm²): | 41500 | 41500 | 53500 | 53500 | 99500 |
| Thickness (mm): | 1 | 1 | 1 | 1 | 3 |
| Number of Mounting Holes: | 2 hole | 2 hole | 2 hole | 2 hole | 4 hole |

Characteristics - Electrical

| | |
|------------------------|---|
| Long Term Stability: | For improvements in long-term stability, resistors must be derated as follows; for 50% of stated ΔR maximum dissipation must not exceed 70% of rating; for 25% of stated ΔR maximum, dissipation must not exceed 50% of rating |
| Insulation Resistance: | Dry: 10,000M Ω minimum. After moisture test: 1000M Ω minimum. |
| Heat Dissipation: | Although the use of proprietary heat sinks with lower thermal resistance is acceptable, up rating is not recommended. The use of proprietary heat sink compound to improve thermal conductivity is recommended for optimum performance of all sizes |
| Specification: | Temperature coefficient below 100R, 50ppm/ $^{\circ}$ C Temperature coefficient above 100R, 30ppm/ $^{\circ}$ C Tolerance, 5% standard |

Product Specifications - THS10 - THS75

| Type | L |
|-----------|----|
| THS10, 15 | 7 |
| THS25, 50 | 10 |
| THS75 | 8 |



Dimensions - THS10 - THS50



THS10 - 2.4mm THS25 - 3.3mm
THS15 - 2.4mm THS50 - 3.3mm



| Type | H \pm 0.3 | J \pm 0.3 | L Max | M Max | N Max | P Max | R Min | T \pm 0.5 | U Max |
|-------|-------------|-------------|-------|-------|-------|-------|-------|-------------|-------|
| THS10 | 11.3 | 12.4 | 17.0 | 30.0 | 17.0 | 9.0 | 1.9 | 3.4 | 2.5 |
| THS15 | 14.3 | 15.9 | 21.0 | 36.5 | 21.0 | 11.0 | 1.9 | 5.2 | 3.2 |
| THS25 | 18.3 | 19.8 | 29.0 | 51.8 | 28.0 | 15.0 | 2.8 | 7.2 | 3.2 |
| THS50 | 39.7 | 21.4 | 51.0 | 72.5 | 30.0 | 17.0 | 2.8 | 7.9 | 3.2 |

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Dimensions - THS75



| Type | H±0.3 | J±0.3 | K±0.2 | L Max | M Max | N Max | P Max | R Min | T±0.5 | U Max |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| THS75 | 29.0 | 37.0 | 4.4 | 49.0 | 71.0 | 47.5 | 26.0 | 5.0 | 11.5 | 3.5 |

Derating Curve THS10 to THS75

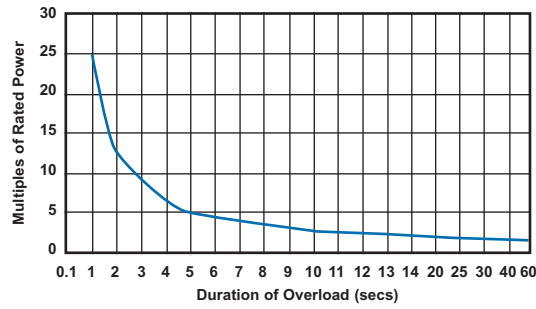


Pulse Energy THS10 to THS75



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Power Overload



This graph indicates the amount that the rated power (at 20°C) of the standard HS Series resistor may be increased for overloads of 100mS to 60S

Surface Temperature Rise



For resistor mounted on standard heatsink, related to power dissipation

How to Order

| THS | 50 | 680R | J |
|--|---|---|------------------|
| Common Part | Power Rating | Resistance Value | Tolerance |
| THS- Standard NTHS - Low Inductance | 10 Watt = THS10 15 Watt = THS15 25 Watt = THS25 50 Watt = THS50 75 Watt = THS75 | 0.1ohm (100 mille ohms) R10 1ohm (1000 mille ohms) 1R0 1K (1000 ohms) 1K0 | J - 5% |

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TE Connectivity:

[THS50-22R5](#) [THS1010RJ](#) [THS1015RJ](#) [THS101R0J](#) [THS102R0J](#) [THS102R7J](#) [THS103R9J](#) [THS104R7J](#)
[THS1050RJ](#) [THS1068RJ](#) [THS10R05J](#) [THS10R22J](#) [THS1512RJ](#) [THS1515RJ](#) [THS152R2J](#) [THS153K3J](#)
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[THS2522RJ](#) [THS2527RJ](#) [THS252R0J](#) [THS2533RJ](#) [THS254R7J](#) [THS258R2J](#) [THS25R05J](#) [THS25R22J](#)
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[THS501R2J](#) [THS501R5J](#) [THS501R8J](#) [THS50220RJ](#) [THS5022KJ](#) [THS5027RJ](#) [THS502R0J](#) [THS502R2J](#)
[THS502R7J](#) [THS5033RJ](#) [THS503R3J](#) [THS503R9J](#) [THS5047RJ](#) [THS50500RJ](#) [THS5050KJ](#) [THS5050RJ](#)
[THS505K6J](#) [THS50680RJ](#) [THS506K8J](#) [THS506R8J](#) [THS508R2J](#) [THS50R01J](#) [THS50R50J](#) [THS7522RJ](#)
[THS75470RJ](#) [THS50R68J](#) [THS154R7J](#) [THS75510RJ](#) [THS75680RJ](#) [THS15R68J](#) [THS1047RJ](#) [THS255R1J](#)
[THS10120RJ](#) [THS102K2J](#) [THS104K7J](#) [THS155K6J](#) [THS10200RJ](#) [THS50R02J](#) [THS151R0J](#) [THS753R3J](#)
[THS754R7J](#) [THS106R8J](#) [THS1547RJ](#) [THS5056RJ](#) [THS10330RJ](#) [THS253K3J](#) [THS5047KJ](#) [THS75100RJ](#)
[THS75330RJ](#) [THS10R50J](#) [THS15R47J](#) [THS15R50J](#) [THS15100RJ](#) [THS15120RJ](#) [THS10R15J](#) [THS1527RJ](#)
[THS5082RJ](#) [THS153R3J](#) [THS50R10J](#) [THS10R18J](#)

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Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru