Aluminium Housed Power Resistors

Type THS Series

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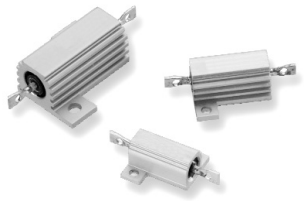


Tyco are the leading European supplier of standard and custom designed aluminium housed resistors for general-purpose use, power supplies, power generation and the traction industry.
The THS is a range of extremely stable, high quality wire wound resistors capable of dissipating high power in a limited 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

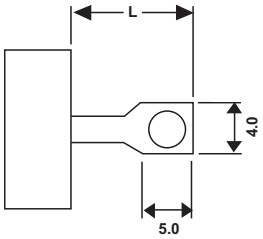
	THS10	THS15	THS25	THS50	THS75
Dissipation @ 25°C with Heatsink (Watts):	10	15	25	50	75
Without Heatsink:	5.5	8	12.5	20	40
Ohmic Value Min (Ohms):	R01	R01	R01	R01	R05
Max:	10K	15K	36K	50K	50K
Max. Working Voltage (DC or ACrms) Volts:	160	265	550	1250	1400
Dielectric Strength (AC Peak) Volts:	1400	1400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

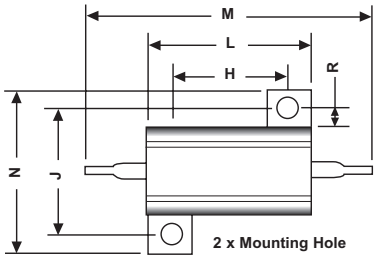
Long Term Stability:	For improvements in long-term stability, resistors must be derated as follows; for 50% of stated ΔR maximum dissipation must not exceed 70% of rating; for 25% of stated ΔR maximum, dissipation must not exceed 50% of rating
Insulation Resistance:	Dry: 10,000MΩ minimum. After moisture test: 1000MΩ 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/°C Temperature coefficient above 100R, 30ppm/°C Tolerance, 5% standard

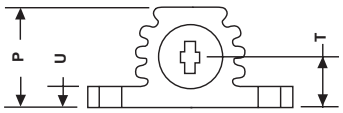
Product Specifications - THS10 - THS75

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



Dimensions - THS10 - THS50

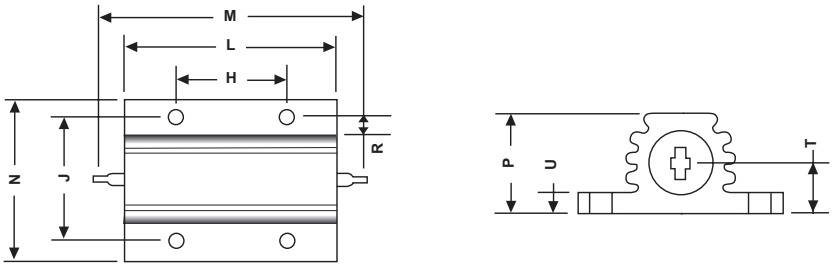




THS10 - 2.4mm **THS25 - 3.3mm**
THS15 - 2.4mm **THS50 - 3.3mm**

Type	H±0.3	J±0.3	L Max	M Max	N Max	P Max	R Min	T±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

Dimensions - THS75

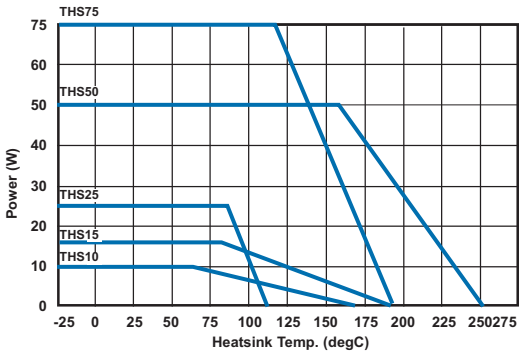


4 x Mounting Hole

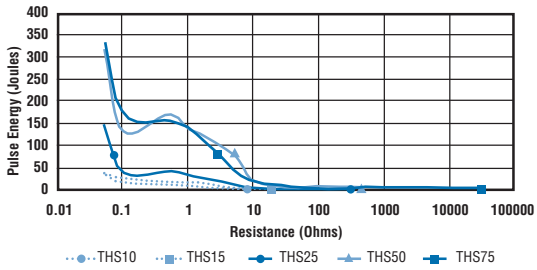
HSC75 - 4.4mm

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

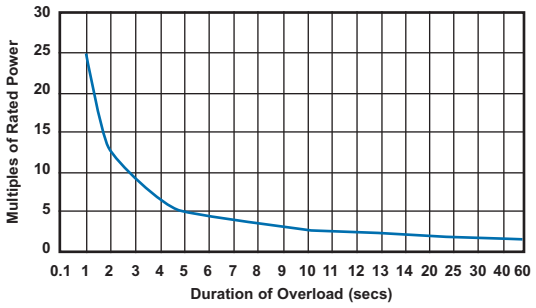
Derating Curve THS10 to THS75



Pulse Energy THS10 to THS75

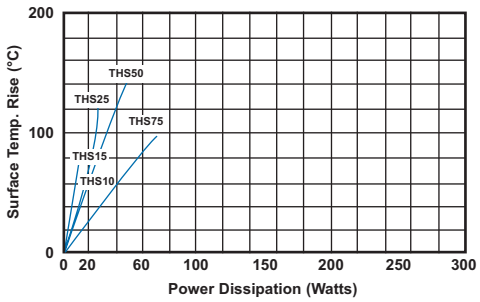


Power Overload



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) 1KO	J - 5%

Mouser Electronics

Authorized Distributor

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TE Connectivity:

THS50-22R5 THS1010RJ THS1015RJ THS101R0J THS102R0J THS102R7J THS103R9J THS104R7J THS1050RJ THS1068RJ THS10R05J THS10R22J THS1512RJ THS1515RJ THS152R2J THS153K3J THS1556RJ THS15R10J THS2510RJ THS2515RJ THS2518RJ THS251K0J THS251R0J THS25220RJ THS2522RJ THS2527RJ THS252R0J THS2533RJ THS254R7J THS258R2J THS25R05J THS25R22J THS25R68J THS50100RJ THS5010KJ THS5010RJ THS5012RJ THS5015RJ THS50180RJ THS501K5J 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

Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

http://moschip.ru/get-element

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:
moschip.ru
moschip.ru_4
moschip.ru_6
moschip.ru_9