

Aluminium Housed Power Resistors



nics Type THS Series

Type THS Series



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

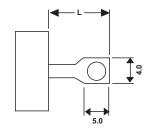
	THS10	THS15	THS25	THS50	THS75
Dissipation @ 25°C with Heatsink (Watts):	10	15	25	50	75
Without Heatsink:	5.5	8	12.5	20	40
Ohmic Value Min (Ohms):	R01	R01	R01	R01	R05
Max:	10K	15K	36K	50K	50K
Max. Working Voltage (DC or ACrms) Volts:	160	265	550	1250	1400
Dielectric Strength (AC Peak) Volts:	1400	1400	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

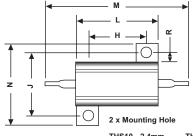
Long Term Stability:	For improvements in long-term stability, resistors must be derated as follows; for 50% of stated ΔR maximum dissipation must not exceed 70% of rating; for 25% of stated ΔR maximum, dissipation must not exceed 50% of rating
Insulation Resistance:	Dry: $10,000M\Omega$ minimum. After moisture test: $1000M\Omega$ 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

1	2	_
۵.	·	-
	*	•

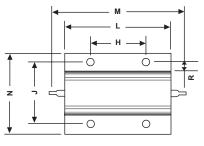
Туре	H±0.3	J±0.3	L Max	M Max	N Max	P Max	R Min	T±0.5	U Max
THS10	11.3	12.4	17.0	30.0	17.0	9.0	1.9	3.4	2.5
THS15	14.3	15.9	21.0	36.5	21.0	11.0	1.9	5.2	3.2
THS25	18.3	19.8	29.0	51.8	28.0	15.0	2.8	7.2	3.2
THS50	39.7	21.4	51.0	72.5	30.0	17.0	2.8	7.9	3.2





Type THS Series

Dimensions -**THS75**

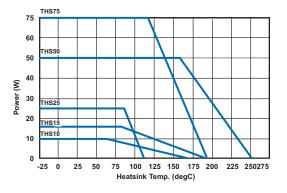




4 x Mounting Hole HSC75 - 4.4mm

Туре	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

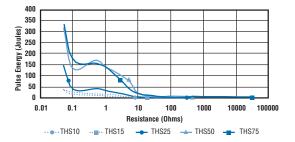


Pulse Energy THS10 to THS75

Dimensions are in

millimetres unless

otherwise specified.

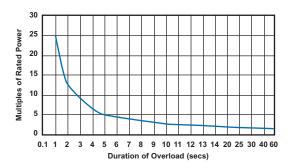






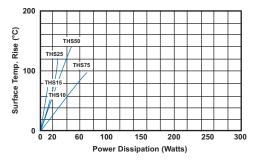
Type THS Series

Power Overload

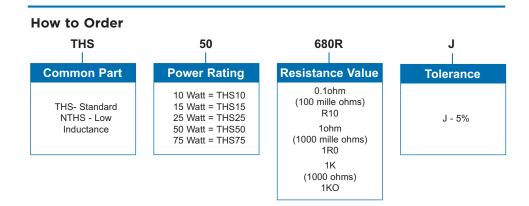


This graph indicates the amount that the rated power (at 20° C) of the standard HS Series resistor may be increased for overloads of 100mS to 60S

Surface Temperature Rise



For resistor mounted on standard heatsink, related to power dissipation



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Wirewound Resistors - Chassis Mount category:

Click to view products by TE Connectivity manufacturer:

Other Similar products are found below:

HD300HLR71J VK100NA-50 40/70MJ2K00BE L75J1K0E VK100NA250 L100J150E-MT1 L50J500E-MT1 SL130J100K-12

HSC1004R0F F30J20R HSC1008R0F HSX25R22J L100J40K CL65J10R HSW600 47R J HSW600 1R J L12NJ20R 75342-400 HSW600

22R J VRH320 1K K VRH320 100R K 968.15 110M C E HSW600 4R7 J 40/70MJ230R0HE L25J500E-MT1 1-2176247-6 1-2176248-5 2
2176248-0 1-2176249-3 C1500K12R FST02515E50R00KEE3 AG5NFR68E AG12NFR68E AG12NFR47E AG12NFR56E AG12NFR33E

CL25J39R AG12NFR22E 850J220E AG12NFR10E CL225J30K 810F7R7E LN100J75RE D50K100-B L225J6K0E 21025K538-5R0KE

LN80J30R C300KR75E D50K25R-B LN80J14R