



POWER RESISTORS

Series TL

5W - 375W



APPLICABLE Mil SPECIFICATIONS: TL series meet or exceed the electrical, mechanical environmental and dimensional requirements of Mil R-26.

RESISTANCE TOLERANCE: $\pm 5\%$ is standard on values above 1 ohm. $\pm 10\%$ is standard on 1 ohm and lower. 3%, 1%, .25% and .05% are also available.

CORES: High purity ceramic impervious to moisture will withstand severe thermal shock.

COATING: Special high-temperature silicone or ceramic depending on end use.

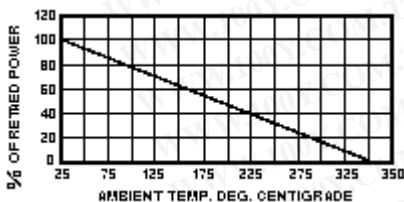
DIELECTRICAL STRENGTH: 1000 VAC minimum for all TL resistors. Available wound inductive or non-inductive.

RESISTANCE WIRE: Highest quality copper-nickel-chrome alloy, depending on resistance value.

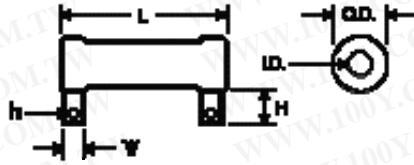
SHORT TIME OVERLOAD: In intermittent usage the applied power can greatly exceed the wattage rating. However, since each pulse is somewhat unique the factory should be contacted for specific requirements.

POWER RATING: Power rating is based on (1) 350° C maximum surface temperature in free air. (2) 3% maximum ΔR in 2000 hour load life test.

DERATING: TL types have an operating temperature range of -55° C to +350° C. They must be derated at high ambient temperature according to the curve shown below.



勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-34970699
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)



DIMENSIONS															
M-O P/N	Core						Lugs						Wattage Rating	Max. Working Voltage	Resistance Range (ohms)
	Length (L)		Dia. O.D.		Dia. I.D.		Width (W)		Height (H)		Hole Dia. (h)				
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm			
TL-5	1.00	25.4	.250	6.35	.156	4.0	.125	3.18	.400	10.2	.062	1.57	5	230	.1 - 12K
TL-10	1.00	25.4	.438	11.1	.312	7.9	.187	4.75	.408	10.36	.093	2.36	10	400	.1 - 22K
TL-25	2.00	50.8	.563	12.5	.312	7.9	.250	6.35	.550	14.0	.154	3.91	25	1300	.1 - 100K
TL-50	4.00	101.6	.563	12.5	.312	7.9	.250	6.35	.550	14.0	.154	3.91	50	1800	.1 - 150K
TL-60	4.00	50.8	.750	19.0	.500	12.7	.250	6.35	.750	19.05	.154	3.91	60	1900	.1 - 175K
TL-100	6.50	165.1	.750	19.0	.500	12.7	.250	6.35	.750	19.05	.154	3.91	100	2000	.1 - 200K
TL-175	8.50	216.0	1.125	28.6	.750	19.0	.530	13.46	.630	16.0	.195	4.95	175	2000	.1 - 300K
TL-225	10.50	266.7	1.125	28.6	.750	19.0	.530	13.46	.630	16.0	.195	4.95	225	2000	.1 - 250K
TL-300	8.50	216.0	1.28	32.5	.750	19.0	.530	13.46	.630	16.0	.195	4.95	300	2000	.1 - 250K
TL-375	10.50	266.7	1.28	32.5	.750	19.0	.530	13.46	.630	16.0	.195	4.95	375	2000	.1 - 330K

Also available with leads welded to lugs (Style TLL)

For non-inductive types add N after part number.

ORDERING INFORMATION

Example: 50w 90 ohm 5%

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TL50

90R0

J

Type

Resistance

Tolerance

4 digit. <100 Ω use R for decimal

K = 10

>100Ω 4th digit is multiplier

J = 5

G = 2

F = 1

[How to Order Micro-Ohm Resistors](#)