



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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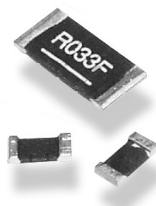
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## Type TL Series

### Type TL Series



Tyco are pleased to offer this unique High Power, metal chip resistor for current sensing positions. It has a special metal resistive element and suitable barrier layers beneath the solder to prolong terminal life. Following the developments by semiconductor manufacturers in the production of a range of IC's for battery charge management and low voltage power supplies, the TL Series satisfies the demand for a low ohmic shunt resistor to act as a current sensor. It has particular applications in the automotive industry for sensing in EMU's.

### Key Features

- Up to 1 Watt at 70°C
- Supplied on Tape
- Ideal for Current Detection
- Wide Value Range R001 to 1R0 Possible
- Fully Automated Manufacture
- 12:06, 20:10 and 25:12 Packages Available
- Available in Distribution

### Characteristics - Electrical

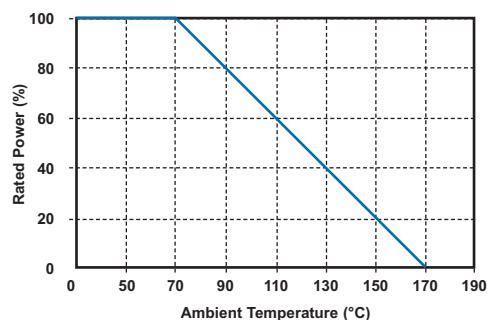
	1206	2010	2512
Resistance Value Range:	R003-R20	R003-R50	R001-R50
Resistance Tolerance:	± 1%		
Power Rating:	Up to 1 watt at 70°C derating to zero at 170°C		
Operating Temperature:	-65°C to +170°C		
Inductance:	< 5 Nanohenries		
T.C.R.	±75ppm/°C (R007-R20/R50)		

### Characteristics - Mechanical

Body Construction:	Fully Welded Element
Terminations:	100% Tin
Coating:	Epoxy

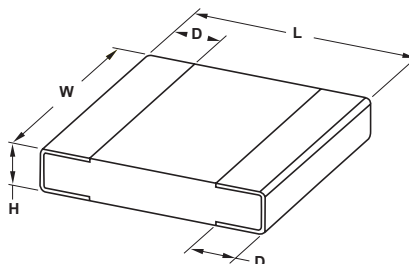
### Power Derating Curve

Type	Power Rating
TL2B	0.25 Watts
TL2H*	0.5 Watts
TL3A	1.0 Watts



For resistors operated in ambient temperatures above 70°C, power rating must be derated in accordance with this curve.

### Dimensions



Type	L	W	H	D
TL2B	3.2	1.6	0.6	0.5
TL2H*	5.1	2.5	0.6	0.5
TL3A	6.4	3.2	0.6	0.8

### How to Order

TL	3A	R015	F	TE
Common Part	Power Ratings	Resistance Value	Tolerance	Packaging
TL - Standard Part	2B - 12:06 *2H - 20:10 3A - 25:12	0.005 ohm (5 milli ohm) R005  0.015 ohm (15 milli ohms) R015  0.047 ohm (47 milli ohms) R047	F - ±1%	TE - 4000 per Reel  TDG - 2000 per Reel (2512 only)

\* - 20:10 available by special request. Minimum Orders of 10000 pcs to apply