

SMD Low Ohmic - Current Sense Resistors



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

Type TL Series

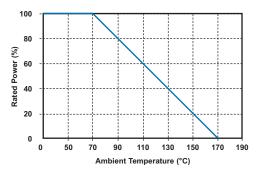
	1206	2010	2512	
Resistance Value Range:	R003-R20	R003-R50	R001-R50	
Resistance Tolerance:	± 1%			
Power Rating:	Up to 1 watt at 70°C derating to zero at 170°C			
Operating Temperature:	-65°C to +170°C			
Inductance:	< 5 Nanohenries			
T.C.R.	±75ppm/°C (R007-R20/R50)			

Characteristics - Mechanical

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

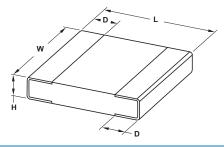
Power Derating Curve

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



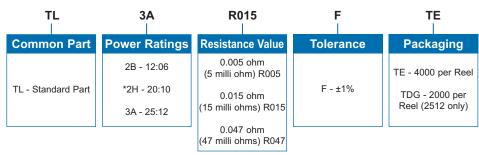
For resistors operated in ambient temperatures above 70°C, power rating must be derated in accordance with this curve.

Dimensions



Type	L	W	Н	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



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