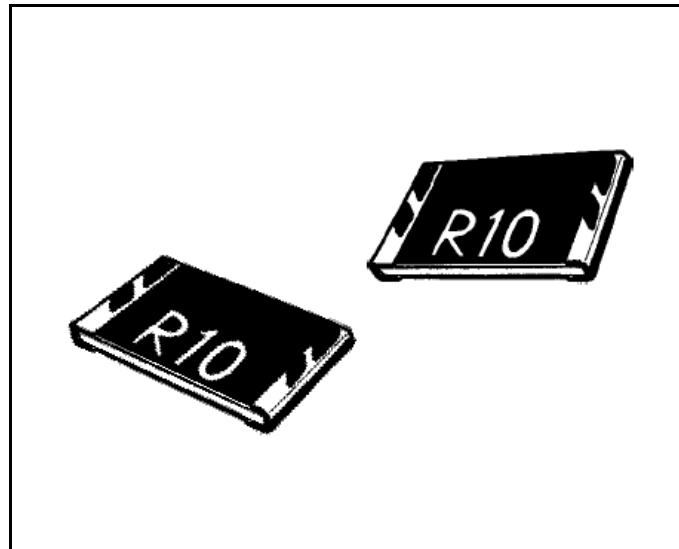

SMD Low Ohmic - Current Sense Resistors

**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 underneath 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

- Low Cost for Volume Applications
- Up to 1 Watt at 70°C
- Supplied on Tape
- Ideal for Current Detection
- Wide Value Range R005 to 1R0 Possible
- Fully Automated Manufacture
- 12:06, 20:10 and 25:12 Packages Available
- Available in Distribution

STOCKISTS:

This product is available from RS and Farnell.

TYPE TL SERIES

1st April 2003
ISSUE 9

ELECTRICAL

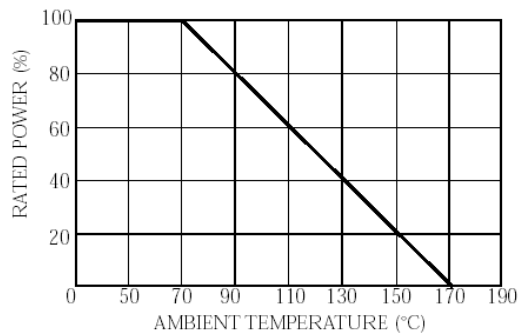
Resistance Value Range:	R01 - 1R0 (R005 is available in a TL3A Package only)
Stock Values:	R01, R015, R018, R022, R033, R047
Resistance Tolerance:	±1%
Power Rating:	Up to 1 watt at 70°C derating to zero at 170°C
Operating Temperature:	-65°C to +170°C
Inductance:	< 5 Nanohenries
T.C.R.	±75ppm/°C

MECHANICAL

Body Construction:	Fully Welded Element
Terminations:	60/40 Tinned Copper
Coating:	Epoxy

POWER RATING CURVE

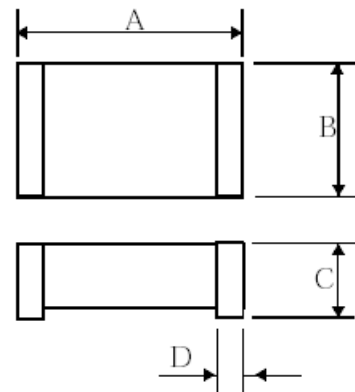
For resistors operated in ambient temperatures above 70°C, power rating must be derated in accordance with the curve.



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

DIMENSIONS

Type	A	B	C	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



Reel Quantities:

12:06 - 4000 on 7" Reel
25:12 - 2000 on 7" Reel

All Dimensions are Nominal and in mm. Do Not Scale.

HOW TO ORDER

TL	3A	R015	F	TE	
COMMON PART	POWER RATING	RESISTANCE VALUE	TOLERANCE	PACKAGING	
TL - Standard Part	2B - 12:06 2H - 20:10 3A - 25:12	0.005 ohm (5 milli ohm) 0.015 ohm (15 milli ohms) 0.047 ohm (47 milli ohms)	R005 R015 R047	F - ± 1%	TE - 4000 per Reel TDG - 2000 per Reel

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

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[RN73C2A6K19BTM](#) [SQMW747RJ](#) [4270W105K](#) [433PW/101K](#) [4290W504K](#) [433PW/105K](#) [4290Y105K](#) [4290X103K](#) [433PW/501K](#)

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