Temperature Sensing Chip Resistor (P.T.C. Thermistor)

Type LT73 Series

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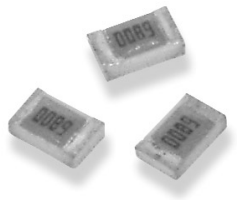


This tiny thin film chip is manufactured by sputtering pure metals onto a high purity alumina base. This process ensures the element remains stable in performance over a long life. The LT73 is equally suited to temperature compensation or thermal protection when incorporated within the appropriate electronics. This range of sensors are finished in a tough epoxy seal and are available on tape for high speed auto placement.

Key Features

- Stable Alumina Substrate
- Solvent Resistant Coating
- Wide Value Range
- Excellent Linearity
- 08 05 Small Size
- Stocked in 3900ppm/°C
- Other TCR's Available to Order
- Supplied on Tape and Reel
- Custom Design Enquiries Welcome

Characteristics - Electrical

	0805 Size (2A)	1206 Size (2B)
Resistance Range:	510R - 3K0	510R - 6K2
Resistance Tolerance:	±5%	±5%
Rated Power at 70°C:	0.1 watt	0.125 watt
Max. Working Voltage @ T_A 70°C:	50 volts	75 volts
Max. Overload Voltage @ T_A 70°C:	100 volts	150 volts
Operating Temperature Range:	-40°C ~ +125°C	-40°C ~ +125°C
TCR Measuring Temperature:	+25°C ~ +75°C (See Graph)	+25°C ~ +75°C (See Graph)
TCR Tolerance:	± 10%	± 10%
Insulation Resistance:	More than 10 Meg	More than 10 Meg

Characteristics - Mechanical

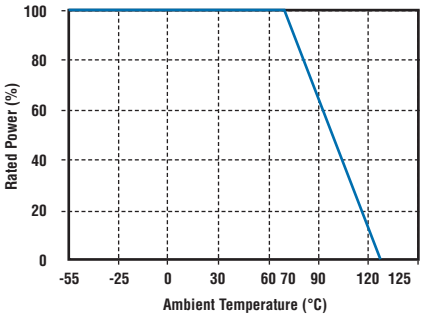
Seal Cover:	Orange
Marking Ink Colour:	Black

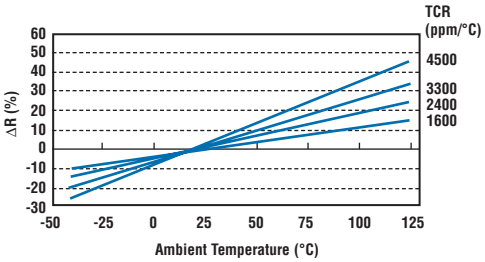
Characteristics - Cleaning

The washing process is very important to ensure long term reliability because ionic impurity from flux may cause electrolytic corrosion of the metal film.

Short time Overload:	Rated Voltage x 2.5 maximum Overload Voltage for 5 seconds, whichever is less
Resistance to Soldering Heat:	260°C ± 5°C, 10 seconds ± 1 second
Solderabilily:	235°C ± 5°C, 3 seconds ± 0.5 second

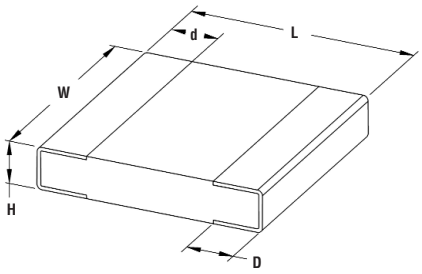
Power Derating





Dimensions

Chip Size	L	W	H	D	d	Weight /1000
2A-0805	2.0±0.2	1.25±0.2	0.5±0.1	0.4±0.2	0.35±0.15	4.54g
2B-1206	3.2±0.2	1.60±0.2	0.6±0.1	0.5±0.3	0.45±0.15	9.14g



How to Order

LT73	3900	2A	103	1K0	J
Common Part	**T.C.R**	**Size**	**Resistance Value**	**Tolerance**	**Pack Style**
LT73 - Standard	3000ppm/°C 3900ppm/°C	2A - 0.1W 2B - 0.125W	The first two digits are significant figures of resistance value and the third denotes the number of zeros following. e.g. 510R: 511 1K0: 102 3K0: 302	J ±5%	Taped - 4000 on Reel