

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

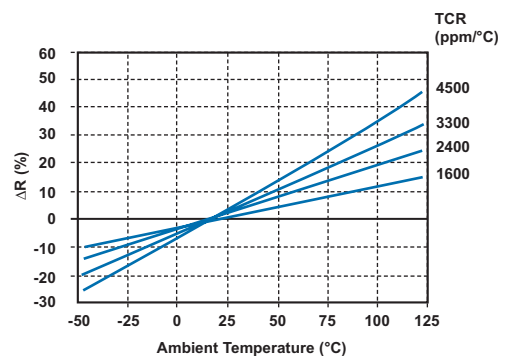
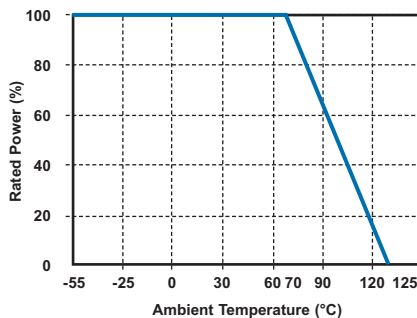
| | |
|---------------------|--------|
| Seal Cover: | Orange |
| Marking Ink Colour: | Black |

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.

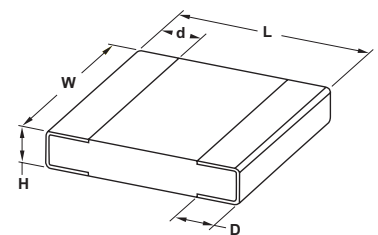
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|-------------------------------|---|
| Short time Overload: | Rated Voltage x 2.5 maximum Overload Voltage for 5 seconds, whichever is less |
| Resistance to Soldering Heat: | 260°C ± 5°C, 10 seconds ± 1 second |
| Solderability: | 235°C ± 5°C, 3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

Power Derating



Dimensions

| Chip Size | L | W | H | D | d | Weight /1000 |
|-----------|----------|----------|---------|---------|-----------|--------------|
| 2A-08.05 | 2.0±0.20 | 1.25±0.2 | 0.5±0.1 | 0.4±0.2 | 0.35±0.15 | 4.54g |
| 2B-12.06 | 3.2±0.20 | 1.60±0.2 | 0.6±0.1 | 0.5±0.3 | 0.45±0.15 | 9.14g |



How to Order

| LT73 | 3900 | 2A | 1R0 | J | TE |
|-----------------|--------------------------|--------------------------|---|-----------|--|
| Common Part | T.C.R | Size | Resistance Value | Tolerance | Pack Style |
| LT73 - Standard | 3000ppm/°C 3900ppm/°C | 2A - 0.1W 2B - 0.125W | 0.1 ohm (100 milli ohms) R10 1 ohm (1000 milli ohms) 1R0 1K ohm (1000 ohms) 1K0 | J ±5% | 2A (0805) - TE - Taped 4000 per Reel 2B (1206) - TD - Taped 5000 per Reel |

Mouser Electronics

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[LT7330002A2K0JTE](#)