





# **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 <sub>A</sub> 70°C:  | 50 volts                  | 75 volts                  |  |
| Max. Overload Voltage @ T <sub>A</sub> 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          |  |

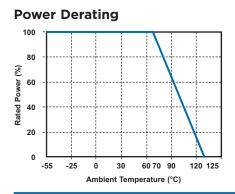
### Characteristics - Mechanical

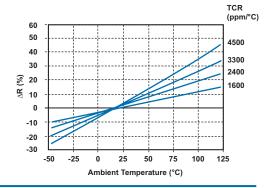
| Seal Cover:         | Orange |
|---------------------|--------|
| Marking Ink Colour: | Black  |

# 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  |
| Solderabililty:               | 235°C ± 5°C, 3 seconds ± 0.5 second   |





# Dimensions

| Chip<br>Size | L        | W        | Н       | D       | d         | Weight<br>/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           |

