

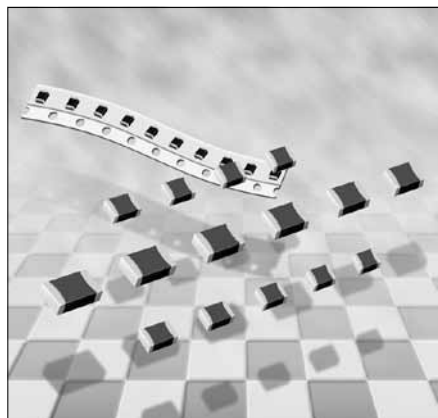
# CHIP TYPE THERMISTOR

## KT THERMISTOR

Chip thermistors are specially processed, highly reliable thermistors. They can be face-bonded to act as thermal compensators for ICs and they are manufactured in sizes down to 1 square mm, they can also be used to detect temperature with relatively small time constants.

### KT-type Part number

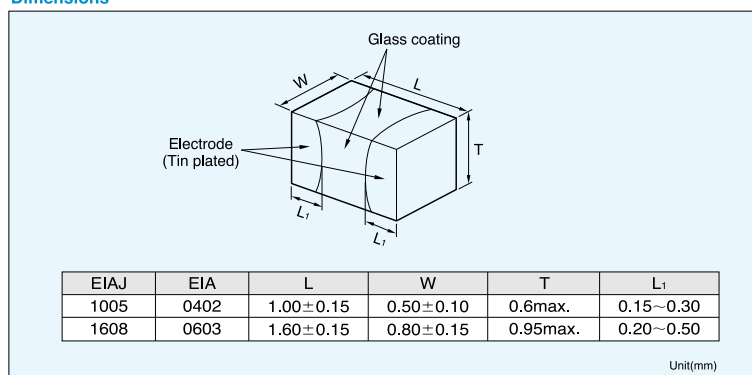
|                                                              |    |       |     |
|--------------------------------------------------------------|----|-------|-----|
| 103                                                          | KT | 1608T | -□□ |
| 1P:±1%,2P:±2%,3P:±3%                                         |    |       |     |
| Dimension(EIAJ) 1608                                         |    |       |     |
| Chip thermistor                                              |    |       |     |
| Rated zero-power resistance at 25°C 103:10×10 <sup>3</sup> Ω |    |       |     |



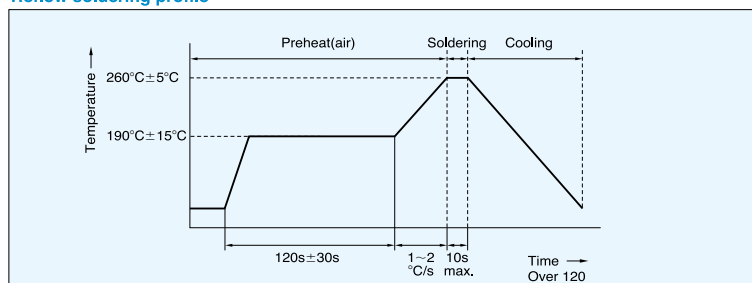
### Precautions

- Do not expose the thermistors to high soldering heat for more than specified time. (260°C for not longer than 10s is recommended)

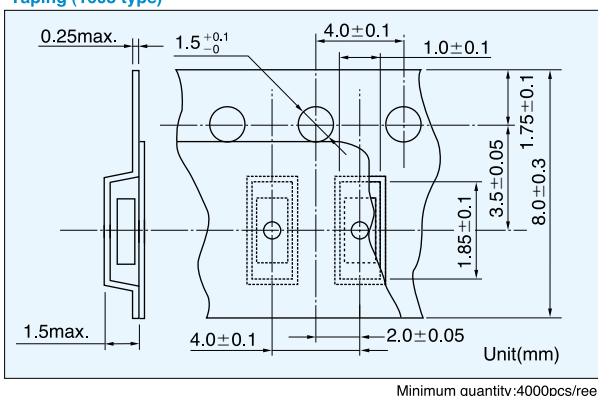
### Dimensions



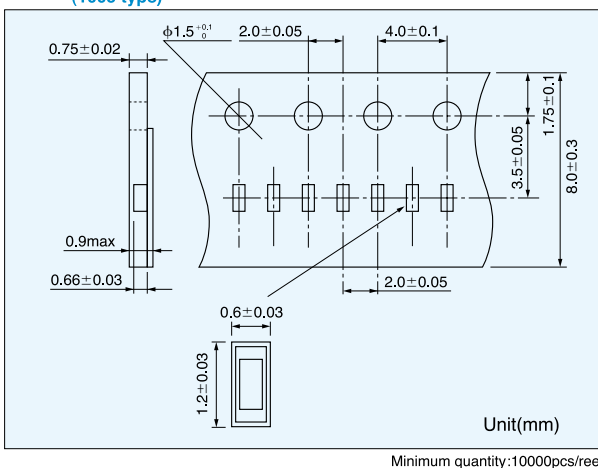
### Reflow soldering profile



### Taping (1608 type)



### (1005 type)



### Specifications

| Part No.   | R <sub>25</sub> <sup>*1</sup> | B value <sup>*2</sup> | Dissipation factor (mW/°C) Approx. | Thermal time constant(s) <sup>*3</sup> Approx. | Rated maximum power dissipation (at 25°C)(mW) | Category temp. range(°C) |
|------------|-------------------------------|-----------------------|------------------------------------|------------------------------------------------|-----------------------------------------------|--------------------------|
| 103KT1608T | 10kΩ                          | 3435K±1%              | 0.9                                | 5.0                                            | 4.5                                           | -40~+125                 |
| 503KT1608T | 50kΩ                          | 4055K±1%              |                                    |                                                |                                               |                          |
| 104KT1608T | 100kΩ                         | 4390K±1%              |                                    |                                                |                                               |                          |
| 103KT1005T | 10kΩ                          | 3435K±1%              | 0.7                                | 2.2                                            | 3.5                                           |                          |

\*1 R<sub>25</sub>: Rated zero-power resistance value at 25°C.

\*2 B value: determined by rated zero-power resistance at 25°C and 85°C.

\*3 Time when thermistor temperature reaches 63.2% of the temperature difference. The value is measured in the air. Other resistance is available, please ask.

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