

## NTC THERMISTORS: TYPE TK95

### INSULATED LEAD INTERCHANGEABLE CHIP THERMISTOR

#### DESCRIPTION:

Epoxy coated interchangeable chip thermistor with PTFE insulated nickel lead-wires.

#### FEATURES:

- Precision, solid state temperature sensor
- Interchangeability down to  $\pm 0.1^\circ\text{C}$
- Suitable for use over range of  $-80^\circ\text{C}$  to  $+150^\circ\text{C}$
- High sensitivity greater than  $-4\% / ^\circ\text{C}$  at  $25^\circ\text{C}$
- Suitable for temperature measurement, control and compensation
- High stability in humid environments ( $40^\circ\text{C}/95\% \text{ R.H.}$ )
- Most popular R-vs-T curves are available
- Resin coated for good mechanical strength and resistance to solvents
- 0.010" (.25 mm) dia. PTFE insulated lead-wires

#### DATA:

##### THERMAL AND ELECTRICAL PROPERTIES:

**Dissipation constant:** ..... (still air) 1 mW/ $^\circ\text{C}$

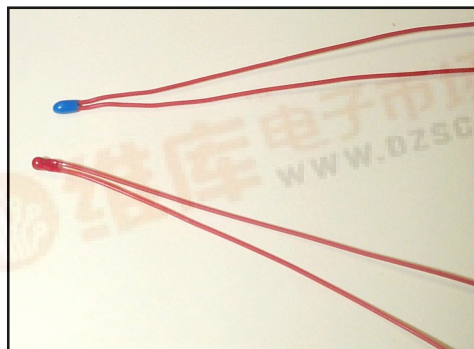
..... (stirred oil) 8 mW/ $^\circ\text{C}$

**Thermal time constant:** ..... (still air) 10 sec.

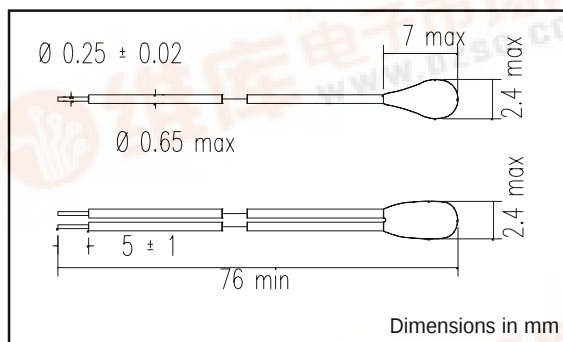
..... (stirred oil) 1 sec.

**Maximum power at  $25^\circ\text{C}$**  ..... 75mW

.. (derated from 100% at  $25^\circ\text{C}$  to 0% at  $100^\circ\text{C}$ )



#### DIMENSIONS:



#### CODING:

| R 25 C | Material system | 0 C to 70 C<br>$\pm 0.1^\circ\text{C}$ | 0 C to 70 C<br>$\pm 0.2^\circ\text{C}$ | 0 C to 100 C<br>$\pm 0.2^\circ\text{C}$ |
|--------|-----------------|----------------------------------------|----------------------------------------|-----------------------------------------|
| 2000   | F               | TK95F202V                              | TK95F202W                              | TK95F202Z                               |
| 2252   | F               | TK95F232V                              | TK95F232W                              | TK95F232Z                               |
| 3000   | F               | TK95F302V                              | TK95F302W                              | TK95F302Z                               |
| 5000   | F               | TK95F502V                              | TK95F502W                              | TK95F502Z                               |
| 10000  | F               | TK95F103V                              | TK95F103W                              | TK95F103Z                               |
| 10000  | Y               | TK95Y103V                              | TK95Y103W                              | TK95Y103Z                               |
| 30000  | H               | TK95H303V                              | TK95H303W                              | TK95H303Z                               |
| 50000  | G               | TK95G503V                              | TK95G503W                              | TK95G503Z                               |
| 100000 | G               | TK95G104V                              | TK95G104W                              | TK95G104Z                               |

#### OPTIONS:

- Other resistance values in the range of 100 $\Omega$  - 100k $\Omega$
- Other tolerances or ranges available
- Alternative lead wires or lengths
- Non standard R-vs-T curves
- Controlled dimensions
- Special sensor assemblies or enclosures

