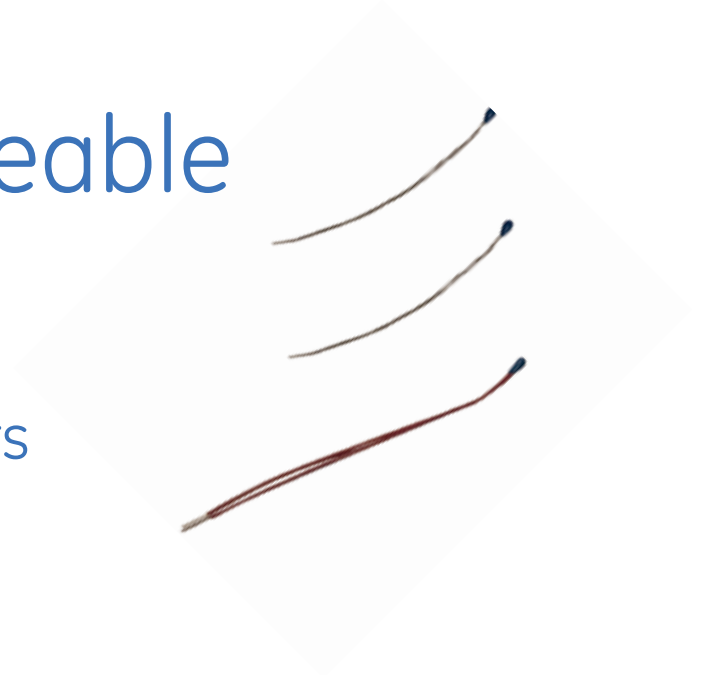


# NTC Interchangeable Type 95 Series

## Thermometrics Thermistors



### Features

- Precision, solid state temperature sensor
- Interchangeability down to  $\pm 0.18^{\circ}\text{F}$  ( $\pm 0.1^{\circ}\text{C}$ )
- Suitable for use over a range of  $-112^{\circ}\text{F}$  to  $302^{\circ}\text{F}$  ( $-80^{\circ}\text{C}$  to  $150^{\circ}\text{C}$ )
- High sensitivity, greater than  $-4\%/^{\circ}\text{C}$  at  $77^{\circ}\text{F}$  ( $25^{\circ}\text{C}$ )
- Suitable for temperature measurement, control and compensation
- High reliability and stability over an interchangeable range
- Most popular Resistance (R) vs Temperature (T) curves are available
- Resin-coated for good mechanical strength and resistance to solvents
- Rugged construction
- For DC95: .012 in (0.3mm) diameter bare tinned-copper lead wires
- For EC95: .008 in (0.2mm) diameter bare tinned-alloylead wires
- For TK95: .010 in (.25mm) diameter PTFE insulated lead wires



# Type DC95 Specifications

## NTC Interchangeable Thermistor Chip

Epoxy-coated, NTC interchangeable thermistor chips with bare tinned-copper lead wires.

## Options

### Consult Factory for Availability of Options

- Other resistance values in the range of 1000  $\Omega$  to 100 k $\Omega$
- Other tolerances or ranges
- Alternative lead wires or lengths
- Non standard R vs T curves
- Controlled dimensions
- Special sensor assemblies or enclosures

## Thermal and Electrical Properties

### Dissipation Constant

Still air: 1 mW/°C

Stirred oil: 8 mW/°C

### Thermal Time Constant

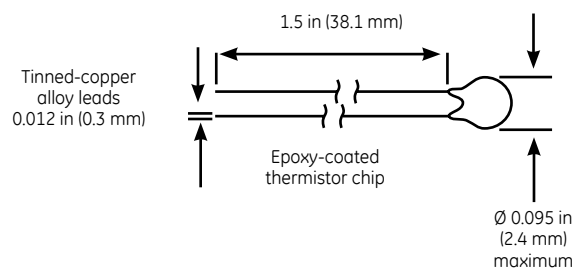
Still air: 10 seconds

Stirred oil: 1 second

### Maximum Power at 77°F (25°C)

75 mW

De-rated from 100% at 77°F (25°C) to 0% at 212°F (100°C)



NTC Interchangeable Type DC95

## Ordering Information

Select appropriate part number below for resistance and temperature tolerance desired.

| R <sub>25°C</sub> | Material System | S 32°F to 158°F (0°C to 70°C) ±0.18°F (±0.1°C) | 32°F to 158°F (0°C to 70°C) ±0.36°F (±0.2°C) | 32°F to 212°F (0 to 100°C) ±0.36°F (±0.2°C) |
|-------------------|-----------------|------------------------------------------------|----------------------------------------------|---------------------------------------------|
| 2000              | F               | DC95F202V                                      | DC95F202W                                    | DC95F202Z                                   |
| 2252              | F               | DC95F232V                                      | DC95F232W                                    | DC95F232Z                                   |
| 3000              | F               | DC95F302V                                      | DC95F302W                                    | DC95F302Z                                   |
| 5000              | F               | DC95F502V                                      | DC95F502W                                    | DC95F502Z                                   |
| 10000             | F               | DC95F103V                                      | DC95F103W                                    | DC95F103Z                                   |
| 10000             | Y               | DC95Y103V                                      | DC95Y103W                                    | DC95Y103Z                                   |
| 30000             | H               | DC95H303V                                      | DC95H303W                                    | DC95H303Z                                   |
| 50000             | G               | DC95G503V                                      | DC95G503W                                    | DC95G503Z                                   |
| 100000            | Y               | DC95Y104V                                      | DC95Y104W                                    | DC95Y104Z                                   |
| 100000            | G               | DC95G104V                                      | DC95G104W                                    | DC95G104Z                                   |

# Type EC95 Specifications

## NTC Interchangeable Thermistor Chip

Epoxy-coated, NTC interchangeable thermistor chips with bare tinned 180 alloy lead-wires.

## Options

### Consult Factory for Availability of Options

- Other resistance values in the range of 1000  $\Omega$  to 100 k $\Omega$
- Other tolerances or ranges
- Alternative lead-wires or lengths
- Non standard R vs T curves
- Controlled dimensions
- Special sensor assemblies or enclosures

## Thermal and Electrical Properties

### Dissipation Constant

Still air: 1 mW/ $^{\circ}$ C  
Stirred oil: 8 mW/ $^{\circ}$ C

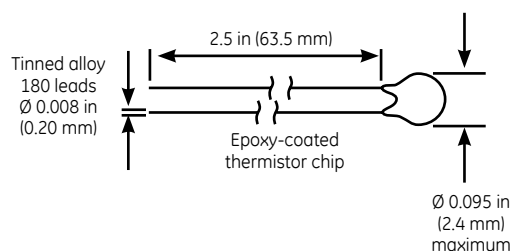
### Thermal Time Constant

Still air: 10 seconds  
Stirred oil: 1 second

### Maximum Power at 77°F (25°C)

75 mW

De-rated from 100% at 77°F (25°C) to 0% at 212°F (100°C)



NTC Interchangeable Type EC95 dimensions

## Ordering Information

Select appropriate part number below for resistance and temperature tolerance desired.

| R <sub>25°C</sub> | Material System | -4°F to 122°F<br>(-20°C to 50°C)<br>±0.36°F (±0.2°C) | 32°F to 158°F<br>(0°C to 70°C)<br>±0.18°F (±0.1°C) | 32°F to 158°F<br>(0 to 70°C)<br>±0.36°F (±0.2°C) |
|-------------------|-----------------|------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|
| 2252              | F               | EC95F232U                                            | EC95F232V                                          | EC95F232W                                        |
| 3000              | F               | EC95F302U                                            | EC95F302V                                          | EC95F302W                                        |
| 5000              | F               | EC95F502U                                            | EC95F502V                                          | EC95F502W                                        |
| 10000             | F               | EC95F103U                                            | EC95F103V                                          | EC95F103W                                        |
| 10000             | Y               | EC95Y103U                                            | EC95Y103V                                          | EC95Y103W                                        |
| 30000             | H               | EC95H303U                                            | EC95H303V                                          | EC95H303W                                        |
| 50000             | G               | EC95G503U                                            | EC95G503V                                          | EC95G503W                                        |
| 100000            | G               |                                                      | EC95G104V                                          | EC95G104W                                        |

# Type TK95 Specifications

## Insulated Lead NTC Interchangeable Thermistor Chip

Epoxy-coated, NTC interchangeable thermistor chips with PTFE insulated nickel lead-wires.

### Options

#### Consult Factory for Availability of Options

- Other resistance values in the range of 1000  $\Omega$  to 100 k $\Omega$
- Other tolerances or ranges
- Alternative lead wires or lengths
- Non standard R vs T curves
- Controlled dimensions
- Special sensor assemblies or enclosures

### Thermal and Electrical Properties

#### Dissipation Constant

Still air: 1 mW/°C  
Stirred oil: 8 mW/°C

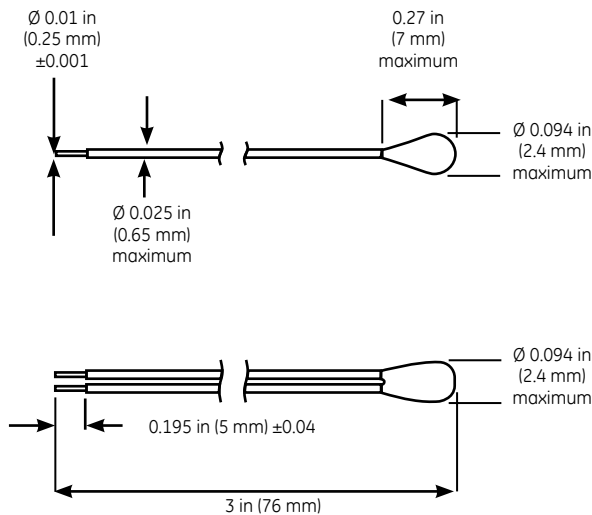
#### Thermal Time Constant

Still air: 10 seconds  
Stirred oil: 1 second

#### Maximum Power at 77°F (25°C)

75 mW

De-rated from 100% at 77°F (25°C) to 0% at 212°F (100°C)



NTC Interchangeable Type TK95 dimensions

### Ordering Information

Select appropriate part number below for resistance and temperature tolerance desired.

| R <sub>25°C</sub> | Material System | S 32°F to 158°F (0°C to 70°C) ±0.18°F (±0.1°C) | 32°F to 158°F (0°C to 70°C) ±0.36°F (±0.2°C) | 32°F to 212°F (0 to 100°C) ±0.36°F (±0.2°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                                   |



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