

T H E R M O M E T R I C S
A C O M M I T M E N T T O E X C E L L E N C E

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°F to 302°F (-80°C to 150°C)
- High sensitivity, greater than $-4\%/^{\circ}\text{C}$ at 77°F (25°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
- DC95: .012 in (0.3mm) diameter bare tinned copper lead wires
- EC95: .008 in (0.2mm) diameter bare tinned Cu-Ni alloy lead wires
- TK95: .010 in (.25mm) diameter PTFE/PFA Cu-Ni alloy lead wires

Amphenol
Advanced Sensors

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 Ω to 100 k Ω
- 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

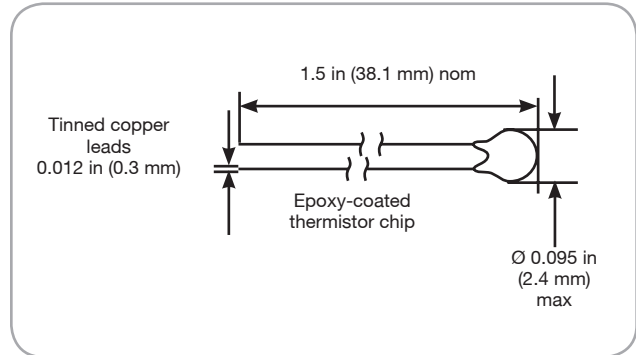
Thermal Time Constant

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 DC95 dimensions

Ordering Information

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

| $R_{25^{\circ}\text{C}}$ | Material System | 32°F to 158°F (0°C to 70°C) $\pm 0.18^{\circ}\text{F}$ ($\pm 0.1^{\circ}\text{C}$) | 32°F to 158°F (0°C to 70°C) $\pm 0.36^{\circ}\text{F}$ ($\pm 0.2^{\circ}\text{C}$) | 32°F to 212°F (0 to 100°C) $\pm 0.36^{\circ}\text{F}$ ($\pm 0.2^{\circ}\text{C}$) |
|--------------------------|-----------------|---|---|--|
| 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 |

Notes:

1. For RoHS compliant product, please add the suffix "N" to the part label. *Example: DC95F103VN*
2. For RoHS compliant product with applications below 0°C, please add the suffix "H" to the part label. *Example: DC95F103VH*

Type EC95 Specifications

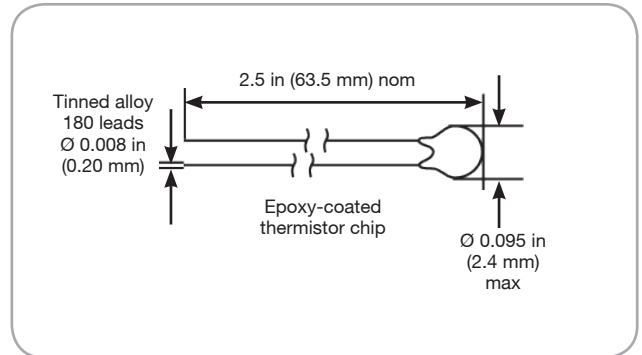
NTC Interchangeable Thermistor Chip

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 Ω to 100 k Ω
- Other tolerances or ranges
- Alternative lead-wires or lengths
- Non standard R vs T curves
- Controlled dimensions
- Special sensor assemblies or enclosures



NTC Interchangeable Type EC95 dimensions

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)

Ordering Information

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

| R _{25°C} | Material System | -4°F to 122°F (-20°C to 50°C) ±0.36°F (±0.2°C) | 32°F to 158°F (0°C to 70°C) ±0.18°F (±0.1°C) | 32°F to 158°F (0 to 70°C) ±0.36°F (±0.2°C) | 32°F to 212°F (0 to 100°C) ±0.36°F (±0.2°C) |
|-------------------|-----------------|--|--|--|---|
| 2252 | F | EC95F232U | EC95F232V | EC95F232W | EC95F232Z |
| 3000 | F | EC95F302U | EC95F302V | EC95F302W | EC95F302Z |
| 5000 | F | EC95F502U | EC95F502V | EC95F502W | EC95F502Z |
| 10000 | F | EC95F103U | EC95F103V | EC95F103W | EC95F103Z |
| 10000 | Y | EC95Y103U | EC95Y103V | EC95Y103W | EC95Y103Z |
| 30000 | H | EC95H303U | EC95H303V | EC95H303W | EC95H303Z |
| 50000 | G | EC95G503U | EC95G503V | EC95G503W | EC95G503Z |
| 100000 | G | | EC95G104V | EC95G104W | EC95G104Z |

Notes:

1. For RoHS compliant product, please add the suffix "N" to the part label. *Example: EC95F103VN*
2. For RoHS compliant product with applications below 0°C, please add the suffix "H" to the part label. *Example: EC95F103VH*

Type TK95 Specifications

Insulated Lead NTC Interchangeable Thermistor Chip

Epoxy-coated, NTC interchangeable thermistor chips with PTFE/PFA insulated nickel lead-wires. RoHS compliant.

Options

Consult Factory for Availability of Options

- Other resistance values in the range of 1000 Ω to 100 k Ω
- 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: 1.5 mW/ $^{\circ}$ C
Stirred oil: 8 mW/ $^{\circ}$ C

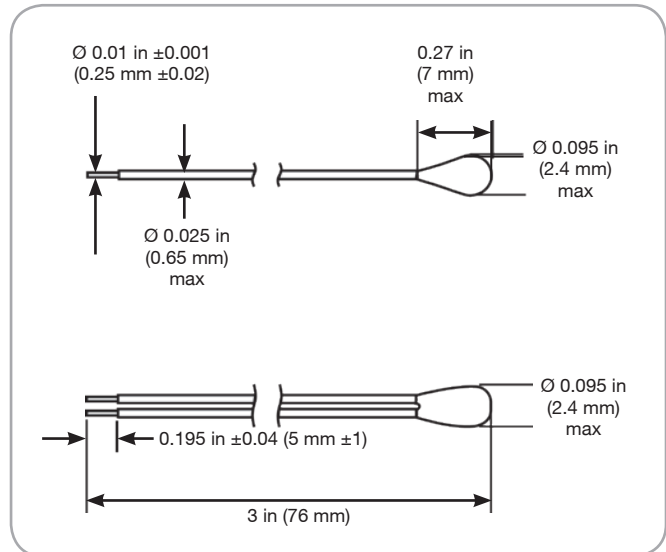
Thermal Time Constant

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 TK95 dimensions

Ordering Information

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

| R _{25°C} | Material System | 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) |
|-------------------|-----------------|---|---|
| 2000 | F | TK95F202V | TK95F202W |
| 2252 | F | TK95F232V | TK95F232W |
| 3000 | F | TK95F302V | TK95F302W |
| 5000 | F | TK95F502V | TK95F502W |
| 10000 | F | TK95F103V | TK95F103W |
| 10000 | Y | TK95Y103V | TK95Y103W |
| 30000 | H | TK95H303V | TK95H303W |
| 50000 | G | TK95G503V | TK95G503W |
| 100000 | G | TK95G104V | TK95G104W |

Notes:

1. Part labels are RoHS compliant as listed.
2. For RoHS compliant product, please add the suffix "N" to the part label. Example: TK95F103VN.

Amphenol
Advanced Sensors

www.amphenol-sensors.com

© 2017 Amphenol Corporation. All Rights Reserved. Specifications are subject to change without notice. Other company names and product names used in this document are the registered trademarks or trademarks of their respective owners.

AAS-920-273G 11/2017

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Amphenol:

[DC95F232Z](#) [EC95R102W](#) [DC95F202V](#) [DC95F202W](#) [DC95F202Z](#) [DC95H303Z](#) [DC95Y103V](#) [DC95Y103W](#)
[DC95Y104Z](#) [DC95Y103Z](#) [DC95H303W](#) [DC95Y104W](#) [DC95H303V](#) [DC95Y104V](#) [DC95F232V](#) [DC95F232W](#)
[EC95Y103V](#) [EC95H303V](#) [DC95G104Z](#) [DC95G104W](#) [DC95G104V](#) [EC95F302W](#) [EC95F302V](#) [DC95F302Z](#)
[DC95F302W](#) [DC95F302V](#) [EC95S102W](#) [EC95F232W](#) [EC95F232V](#) [DC95G503W](#) [DC95G503Z](#) [DC95G503V](#)
[DC95F103V](#) [DC95F103Z](#) [DC95F103W](#) [DC95F502W](#) [DC95F502V](#) [DC95F502Z](#) [EC95F502V](#) [EC95F103V](#)
[EC95F103W](#) [EC95G104V](#) [EC95G503V](#) [EC95G104W](#) [EC95H303W](#) [EC95G503W](#) [TK95F103W](#) [TK95G503W](#)
[DC95F232ZN](#) [TK95F202V](#) [DC95Y103VN](#) [DC95Y104VN](#) [DC95F302ZN](#) [EC95Y103VN](#) [EC95H303VN](#) [EC95F302WN](#)
[TK95G104V](#) [DC95F202VN](#) [TK95Y103V](#) [EC95F232VN](#) [DC95G503WN](#) [TK95H303V](#) [TK95F502V](#) [DC95F202WN](#)
[DC95F502ZN](#) [DC95F103WN](#) [EC95F232WN](#) [EC95F103VN](#) [DC95G104ZN](#) [DC95G503VN](#) [TK95F232W](#)
[DC95F202ZN](#) [EC95G104VN](#) [EC95F302VN](#) [DC95H303VN](#) [TK95G503V](#) [DC95G104WN](#) [TK95F302V](#) [DC95F502WN](#)
[DC95F103VN](#) [DC95F302WN](#) [TK95H303W](#) [EC95S102WN](#) [DC95Y104ZN](#) [DC95Y103ZN](#) [DC95Y104WN](#)
[DC95F502VN](#) [DC95F103ZN](#) [DC95G104VN](#) [EC95F103WN](#) [TK95F232V](#) [TK95G104W](#) [TK95F103V](#) [TK95F502W](#)
[TK95F202W](#) [DC95H303ZN](#) [DC95F232WN](#) [DC95G503ZN](#) [EC95F502VN](#) [EC95G503WN](#)