THERMOMETRICS
A COMMITMENT TO EXCELLENCE

Type 95 Epoxy-Coated Interchangeable NTC Thermistors



Features

- Precision, solid state temperature sensor
- Interchangeability down to ±0.18°F (±0.1°C)
- Suitable for use over a range of -112°F to 302°F (–80°C to 150°C)
- High sensitivity, greater than –4%/°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 mechanical strength and resistance to solvents
- Rugged construction
- DC95: 0.012 in (0.3mm) diameter, bare tinned copper lead wires
- EC95: 0.008 in (0.2mm) diameter, bare tinned Cu-Ni alloy lead wires
- TK95: 0.010 in (0.25mm) diameter, PTFE/PFA Cu-Ni alloy lead wires

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Advanced Sensors

Type DC95 Specifications

Description

Epoxy-coated interchangeable NTC 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 kΩ
- 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

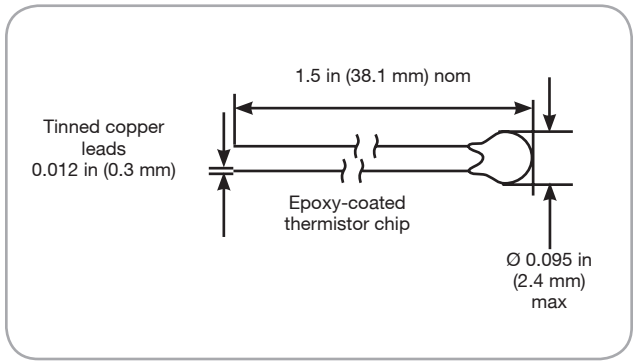
Thermal Time Constant

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)



Type DC95 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)	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

Notes:

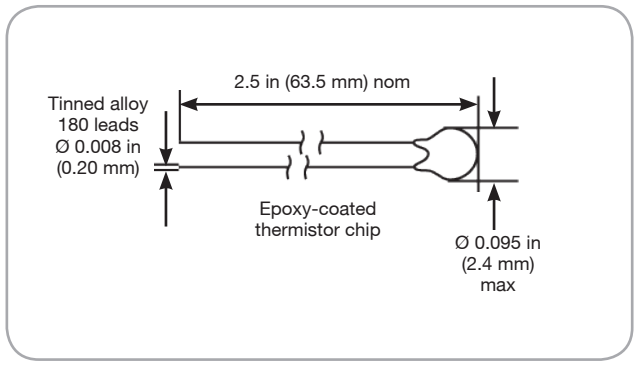
1. For RoHS compliant product, please add the suffix “N” to the part label. *Example: DC95F103VN.*

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

Type EC95 Specifications

Description

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



Type EC95 Dimensions

Options

Consult Factory for Availability of Options:

- Other resistance values in the range of 1000 Ω to 100 kΩ
- 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)

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

Description

Epoxy-coated interchangeable NTC 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 kΩ
- 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/°C
Stirred oil: 8 mW/°C

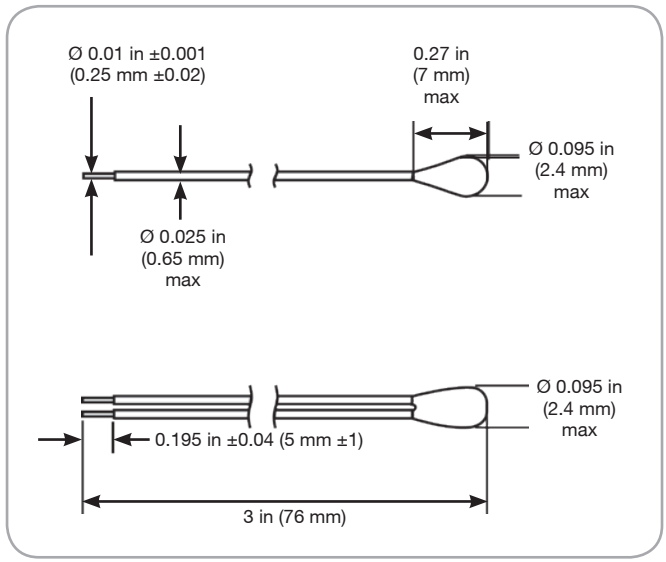
Thermal Time Constant

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)



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 by exemptions 7(a) and 7(c)-1 as listed. Solder is 93.5Pb5Sn1.5Ag at a higher melt point than the Pb-free version. For use for optimum low temperature performance, where resistance to higher temperatures may be required and for applications where requalification with different solders is not an alternative.
2. Please add the suffix “N” to the part label for RoHS complaint by exemption 7(c)-1. Example: TK95F103VN. Solder is 97SC Pb-free.

*Note: Both parts are classified RoHS compliant.

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