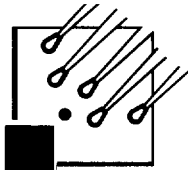


SPECIAL CORNERCHIP NTC THERMISTOR • INSULATED LEADS WITH PVC CUP



STANDARD TOLERANCES

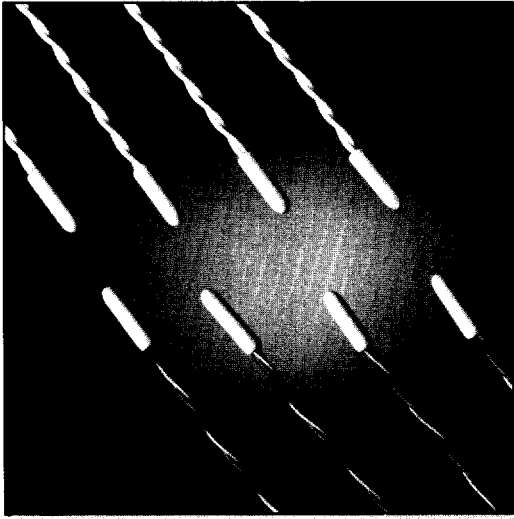
- (no suffix) = $\pm 10\%$ resistance tolerance at R_{25}
- 05 = $\pm 5\%$ resistance tolerance at R_{25}
- 01 = $\pm 1\%$ resistance tolerance at R_{25}
- AA = Interchangeable to $\pm 1.0^{\circ}\text{C}$ from 0° to 70°C
- BA = Interchangeable to $\pm 0.5^{\circ}\text{C}$ from 0° to 70°C
- CA = Interchangeable to $\pm 0.2^{\circ}\text{C}$ from 0° to 70°C
- HB = Interchangeable to $\pm 0.2^{\circ}\text{C}$ from 0° to 50°C and $\pm 0.1^{\circ}\text{C}$ at 37°C

***-xx" is the alphanumeric suffix added to the Cornerstone Sensors CornerCHIP standard part number to indicate the required manufacturing tolerance. Point-matched thermistors should not be continuously exposed to or cycled above 125°C . Precision interchangeables should normally operate within their specified temperature range. Other resistance-temperature tolerances and custom specifications are available.

Cornerstone Sensors offers one of the broadest lines of standard NTC thermistor configurations to meet the needs of your temperature application. Whether your application requires control at a single temperature point or accuracy over a broad temperature range, Cornerstone Sensors CornerCHIP thermistors are the ideal choice for temperature control, compensation, measurement, and monitoring. If your application has special requirements, do not hesitate to call Cornerstone Sensors to discuss your specification.

- Six basic configurations
- Ideal for use in temperature probe applications
- Twisted pair lead construction
- Standard overall lengths 24" (609.6mm) - 36" (914.4mm)
- Lead gauges - AWG 28 (.012"/.3048mm) and AWG 30 (.010"/.254mm)
- Solid conductors of silver-plated copper
- Kynar insulation
- PVC cup encapsulation
- Standard R_{25} values
- Available in single and composite construction
- Noted for their consistency in shape and small size

Cornerstone Sensors CornerCHIP thermistors with Kynar insulated leads and PVC cups are ready for use in applications where long lead lengths and tip consistency is important. This type of thermistor construction has had wide acceptance for many years in critical medical applications where thermistors are used in disposable temperature catheters. Its proven reliability lends itself to many other commercial and industrial uses.

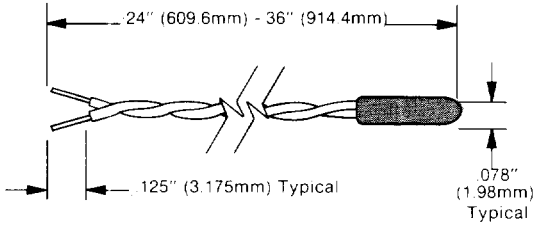


The PVC tip encapsulation allows the use of a standard size thermistor chip for applications where a small, consistent size is needed. Typically, an epoxy coated thermistor would be approximately .015" to .020" greater in diameter than a PVC tipped device. This type of construction is ideal for applications where the sensor must be placed inside a long, thin tube.

BASIC STYLES

	T301	T311	T302	T312	T303	T313
Insulation	Kynar	Kynar	Kynar	Kynar	Kynar	Kynar
Insulation wall thickness	.005"	.005"	.005"	.005"	.005"	.005"
Conductor*	Copper	Copper	Copper	Copper	Copper	Copper
AWG	28	30	28	30	28	30
Lead style	Twisted pair	Twisted triplet	Twisted pair	Twisted triplet	Twisted pair	Twisted triplet
Overall length	24"	24"	30"	30"	36"	36"
Encapsulation	PVC cup	PVC cup	PVC cup	PVC cup	PVC cup	PVC cup
Tip diameter	.078"	.082"	.078"	.082"	.078"	.082"

*All conductors are silver-plated.



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CORNERSTONE

SENSORS INC.

TEMPERATURE SENSORS FOR HEALTH, SCIENCE, & INDUSTRY

CSSIS00012

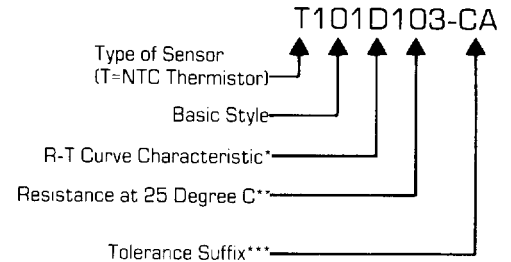
SPECIAL CORNERCHIP NTC THERMISTOR ■
INSULATED LEADS WITH PVC CUP

PART NUMBER ORDERING INFORMATION



The part number listed below is for an NTC thermistor, style 101, Curve D R-T characteristic, R_{25} of 10,000 Ω , and interchangeable to $\pm 0.2^\circ\text{C}$ from 0° to 70°C.

BASIC P/N	STYLE	R-T CURVE*	R_{25}	O.L.	LEAD TYPE	AWG	INSULATION	LEAD STYLE	INSUL. STRIP	ENCAPSULATION
T301D222	301	D	2,252	24"	COPPER	28	KYNAR	TWISTED	0.125	PVC CUP
T301D103	301	D	10,000	24"	COPPER	28	KYNAR	TWISTED	0.125	PVC CUP
T311C363	311	C	6K/30K	24"	COPPER	30	KYNAR	TRIPLET	0.125	PVC CUP
T302D222	302	D	2,252	30"	COPPER	28	KYNAR	TWISTED	0.125	PVC CUP
T302D103	302	D	10,000	30"	COPPER	28	KYNAR	TWISTED	0.125	PVC CUP
T312C363	312	C	6K/30K	30"	COPPER	30	KYNAR	TRIPLET	0.125	PVC CUP
T303D222	303	D	2,252	36"	COPPER	28	KYNAR	TWISTED	0.125	PVC CUP
T303D103	303	D	10,000	36"	COPPER	28	KYNAR	TWISTED	0.125	PVC CUP
T313C363	313	C	6K/30K	36"	COPPER	30	KYNAR	TRIPLET	0.125	PVC CUP



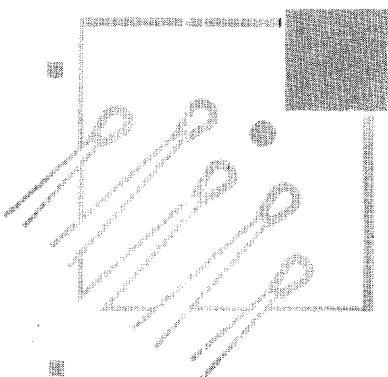
*Note that the R-T Curve C designation is an exception to the standard P/N nomenclature. In this case, "C" designates a composite thermistor, a 6K Curve D thermistor (blue lead) and a 30K Curve E thermistor (black lead) that share a common white lead. The "363" in the composite P/N represents the combined resistance values of the two thermistors.

**The first two digits represent the first two digits of the R_{25} . The last digit represents the number of zeroes. There are two special cases:

1. "222" = 2,252 ohms
2. "363" = 36,000 ohms -
The combined resistance values of two thermistors in a composite construction.

***Factory assigned alphanumeric which indicates either a resistance or temperature tolerance.

All of the part numbers listed to the left are available to the specifications listed in the tolerance table on the front of this product sheet. Other standard specifications and custom specifications are available. For further information, please contact the factory.



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