

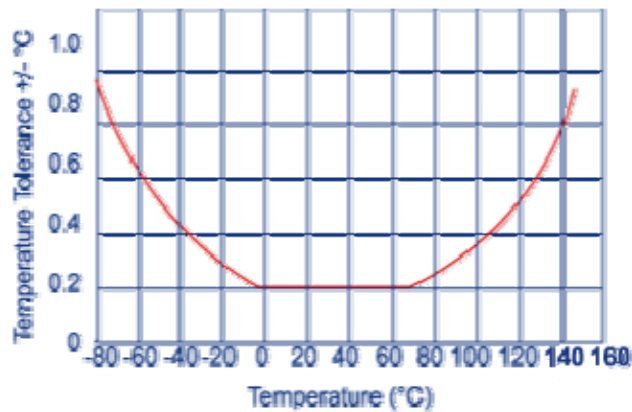
- Class A ($\pm 0.1^\circ\text{C}$ from 0°C to 70°C);
- Class B ($\pm 0.2^\circ\text{C}$ from 0°C to 70°C);
- Class C ($\pm 0.5^\circ\text{C}$ from 0°C to 70°C);
- Class D ($\pm 1.0^\circ\text{C}$ from 0°C to 70°C).

Graphs # 10 and # 11 represent the thermistor tolerance for BetaTHERM Curve # 3 BetaCURVE thermistors over the temperature range (-80°C to 150°C).

In the graphic display of the temperature tolerance (ΔT) **Graph # 10**, it can be seen that the deviation or tolerance which is ($\pm 0.2^\circ\text{C}$, from 0°C to 70°C) for BetaCURVE material # 3 is wider outside the 0°C to 70°C range.

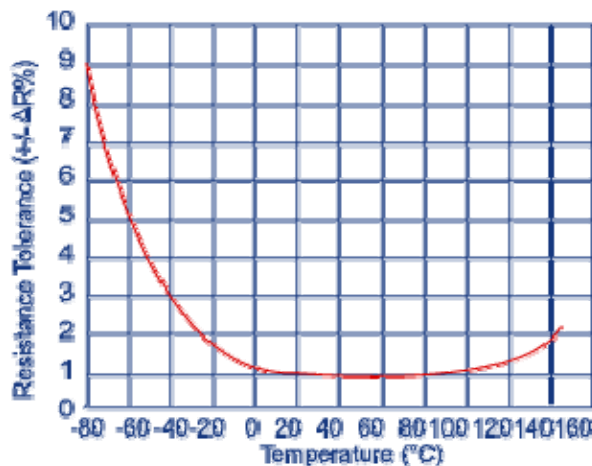
Graph # 11 also depicts BetaCURVE material # 3 with the deviation or tolerance expressed as a percentage ($\Delta R\%$) over the range -80°C to 150°C .

Temperature Tolerance Curve (ΔT) for BetaTHERM Material Curve # 3 **BetaCURVE** Thermistors.
(Standard tolerance, $\pm 0.2^\circ\text{C}$ from 0°C to 70°C)



Graph # 10

Percent Tolerance Curve ($\Delta R\%$) for BetaTHERM Material Curve # 3 **BetaCURVE** Thermistors.
(Standard tolerance, $\pm 0.2^\circ\text{C}$ from 0°C to 70°C)



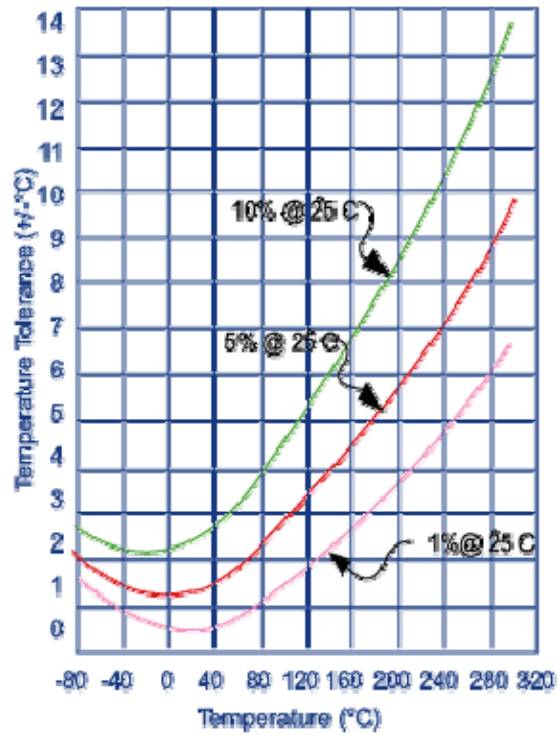
Graph # 11

BetaCHIP thermistors are low precision tolerance thermistors with tolerance specified at a single point temperature and tolerance. The "worst case" deviation or tolerance for temperatures -80°C to $+300^\circ\text{C}$ are depicted in **Graph # 12** for temperature deviation and in **Graph # 13** for percent deviation from curve nominal values for 1%, 5% and 10% @ 25°C Material Curve # 3 thermistors. The

scale of the Graphs extends to 300°C to display the tolerance for high temperature (glass coated BetaCHIP and DO-35 packaged BetaCHIP) thermistors.

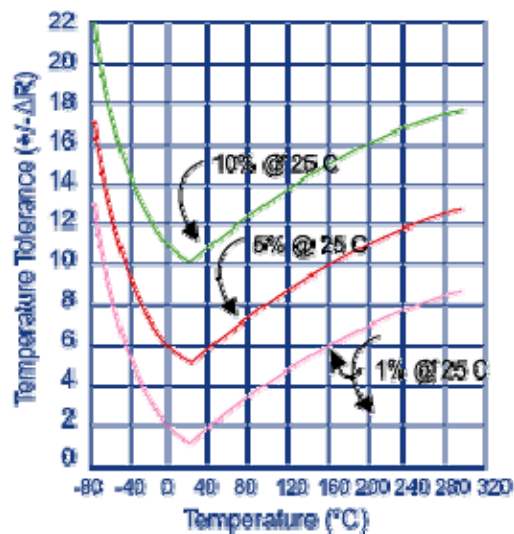
The values displayed in the graphs are also listed in the Temperature and Deviation **Tolerance Tables** on pages 48 and 49.

Temperature Tolerance Curve (ΔT) for BetaTHERM Material Curve # 3 BetaCHIP (Standard 1%, 5% and 10% tolerance @ 25°C) Thermistors.



Graph # 12

Percent Tolerance Curve (ΔR) for BetaTHERM Material Curve # 3 **BetaCHIP** (Standard 1%, 5% and 10% tolerance @ 25°C) thermistors.



Graph # 13