

BOURNS®

The graph illustrates the temperature profile of a thermocouple during a heat treatment cycle. The y-axis represents Temperature (°C) from 0 to 250, and the x-axis represents Time (Seconds) from 0 to 250. The profile is divided into four distinct regions:

- Temperature Rising Area:** 0 to 50 seconds, with a maximum heating rate of +4.0 °C/sec.
- Preheat Area:** 50 to 140 seconds, with a temperature range of 150–200 °C and a duration of 60–120 seconds.
- Reflow Area:** 140 to 210 seconds, with a maximum heating rate of +3.0 °C/sec. The duration is 60–150 seconds.
- Forced Cooling Area:** 210 to 240 seconds, with a maximum cooling rate of -(1.0–5.0) °C/sec. The duration is 60 seconds max.

Key data points from the graph include a peak temperature of 245 °C at 210 seconds and a temperature of 217 °C at 240 seconds.

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