

# Highly Accelerated Life Test (HALT)

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- **Definition:**

**Highly Accelerated Life Test (HALT) is a process in which products are subjected to accelerated environments to find weak links in the design and/or manufacturing process. The primary accelerated environments include thermal (both temp limits and rate of change) and vibration (pseudo-random 6 DOF). Other accelerated environments using voltage, frequency, etc. are applied as appropriate for the sample being tested.**

# Highly Accelerated Life Test

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- **HALT is a misnomer:**
  - Not a true life test
  - Use HALT process to determine operation and endurance limits
- **Process steps:**
  1. Cold limit determination
  2. Hot limit determination
  3. Rapid thermal cycling
  4. Vibe limit determination
  5. Combined environments

# HALT Thermal Limits

## HALT THERMAL LIMITS

