



# Reliability Testing Services

Electron Test Equipment provides product **reliability testing** services to ensure your semiconductor and optoelectronic devices meet reliability, quality assurance, and compliance standards.

We offer full-service solutions for component and electronic assemblies used in industries such as telecom, medical, defense, automotive, and aerospace.

## Environmental Chambers

Test your device in our environmental chambers for conditions such as humidity, sub-zero and high temperature.

## Electrical Testing

Various electrical tests are performed to assure electrical operating conditions and safety standards are met.

## HALT Testing Services

We perform temperature and thermal cycles on your device to rapidly discover design and manufacturing weakness.

## Compliance Testing

We test your device to compliance standards such as: Telcordia, MIL-STD, JEDEC, IEC.

# Product Reliability Testing for Electronics & Semiconductors

Our product reliability testing assesses the lifetime performance of your component or electronic assembly to minimize the risk of failure and identify critical design issues. Our facility has a range of environmental test chambers to accommodate any device.

Our **electronic reliability engineering services** include comprehensive services including test plan preparation, testing, root cause analysis, and support for product design & reliability improvement.

### HALT Testing Services

We provide **High Accelerated Lifetime Testing** (HALT) Services on semiconductors, IC (integrated circuits), and electronic assemblies by effectively forcing product weakness to emerge through accelerated fatigue. We perform the test to determine the operating and destruct limits of a design.

Our engineering team would be happy to help determine a HALT testing solution for your application.

[Request Quote](#)



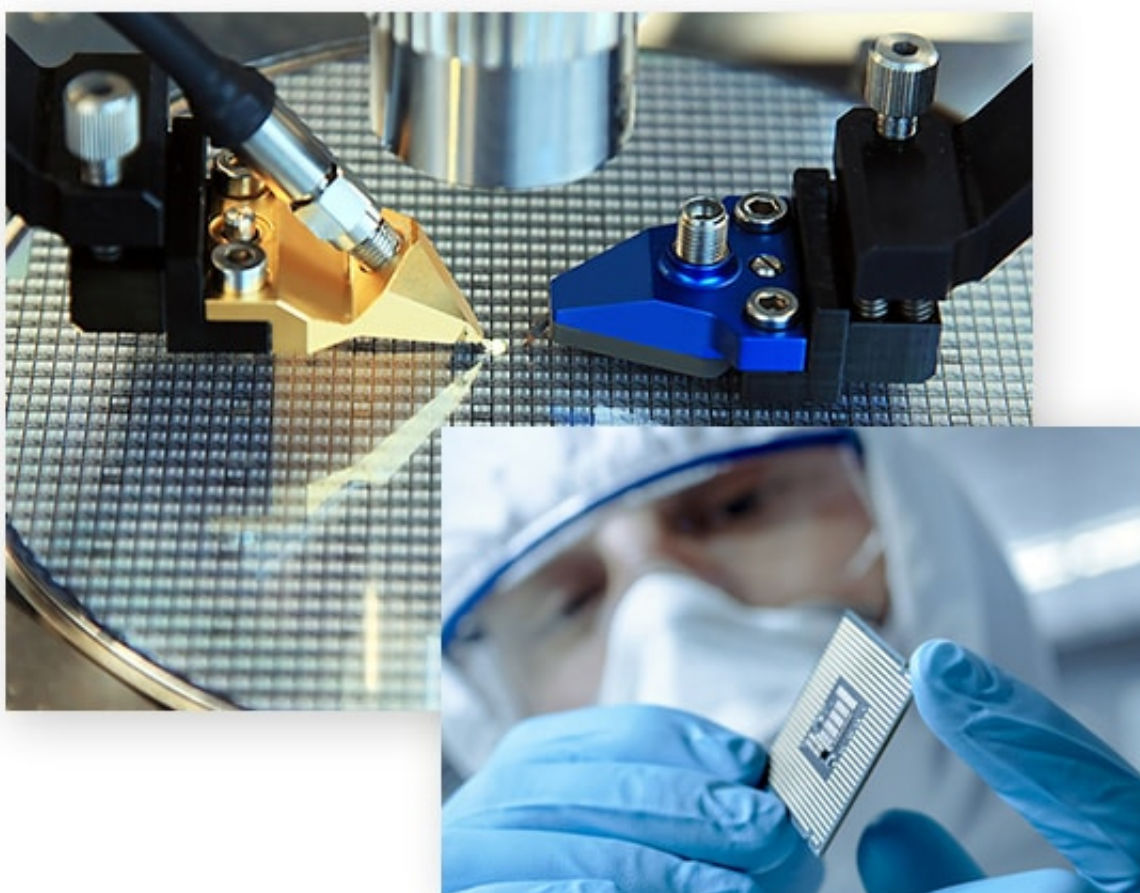
[HALT Testing Explained](#)



[HALT Testing Process](#)



## The Importance of HALT



## Accelerated Life Testing Services

We perform [Accelerated Life Testing](#) (ALT) services by subjecting the semiconductor devices to conditions that simulate years of use by accelerating the operational time using various environmental stress tests. With ALT testing, we uncover potential modes of early wear-out or failure that would effect the product reliability.

This test differs from HALT testing since our test conditions **do not test for destruct limits**.

[Request Quote](#)

[Verifying 20 Years of Use](#)



[ALT Testing Process](#)



## Semiconductor Reliability

No matter what industry you are in, it is crucial to have detailed knowledge about the reliability and operating limits of your semiconductor component or electronic assembly.

Our environmental testing, electrical testing, and analysis will ensure a quality and reliable product to your end user.

**Be sure your semiconductor will last.**

## Compliance Standards

Our lab and partner labs in Europe and USA conduct testing to meet demanding compliance standards such as:

- Telcordia GR-468-CORE
- MIL-STD-883E / (750)
- JEDEC JESD22
- IEC 60068-2

*Request a Quote for our Semiconductor Reliability Testing Services.*

[CONTACT US](#)

### LASER DIODE TEST SOLUTIONS

[LIV Test System](#)

[Laser Diode Burn-in System](#)

[What is a Laser Diode?](#)

[How an LIV Test Works](#)

[Laser Diode Reliability](#)

### PHOTODIODE TEST SOLUTIONS

[Photodiode Burn-in System](#)

What is a Photodiode?

## KNOWLEDGE BASE

Semiconductor Reliability

Burn-in Testing

Accelerated Life Testing

Product Reliability

Burn-in Chamber

## HEAD OFFICE

### **Electron Test Equipment Limited**

44 Brighton Road  
Salfords, RH1 5BX  
England

**Phone:** + 44 1293 904 001

**E-mail:**

[info@electrontest.com](mailto:info@electrontest.com)