

ENVIRONMENTAL TEST LAB CAPABILITIES

DLA Land and Maritime Approved*

As the market leader in high-reliability components for the electronics OEM marketplace, Gowanda offers an in-house environmental testing lab with unmatched capabilities. This lets us establish the consistent performance characteristics required to meet the most demanding designs. Our environmental technical services are also available on a contracted basis.

Temperature Cycling Chamber

- -65°C to +180°C
- Cycling Rates from 5°C to 10°C/min

Thermal Shock Chambers

- -65°C to +200°C

Shaker System - MIL-SPEC & custom profiles

- Maximum Sustained Vibration Force: 100g
- Maximum Shock Force: 100g
- Vibration: MIL-STD-202-201, -204 & -214
- Shock: MIL-STD-202-207 & -213

Altitude Chamber - MIL-STD-202-105; custom profiles

- Maximum Altitude: 80,000 Feet
- DWV and IR at Altitude

Benchtop Chambers

- -75°C to +200°C
- High Temperature Operation
- Temperature Rise
- Low Temperature Storage

Solderability Via Steam Aging Chamber - MIL-STD-202-208

- Up to 99 Hours of Continuous Testing

Force Gauge

- Maximum Force: 50N
- Bond Strength

Life Test Chamber - MIL-STD-202-108

- Maximum Operating Temperature: 260°C
- Cyclic Load Profile

Real Time X-Ray - MIL-STD-202-209

Humidity Chamber - MIL-STD-202-103

- Steady State
- -75°C to +200°C
- 20% to 90% Relative-Humidity

* in support of internal product qualifications

Moisture Resistance - MIL-STD-202-106

- Temperature & Humidity Variability

Salt Spray - MIL-STD-202-101

- Anti-Corrosion Testing

Chemical Resistance - MIL-STD-202-215

- Resistance to Solvents

Terminal Strength - MIL-STD-202-211

Insulation Resistance - MIL-STD-202-302

DWV - MIL-STD-202-301

Hipot Tester

- Maximum AC Voltage: 6kV
- Maximum DC Voltage: 5kV
- Insulation Resistance (IR)
- Dielectric Withstanding Voltage (DWV)

Voltech AT3600 Transformer Testing

- Maximum Test Frequency: 1MHz
- Maximum Test Current: 25A
- Maximum Test Voltage: 3kV
- Fast Testing of Complicated Transformers

High Power AC Testing

- Frequency Range: 0.10Hz to 2MHz
- Maximum Voltage: 400Vp-p
- Maximum Current 7570mA
- Pulse, Ramp, Sine, Square & Triangle Waves

LabVIEW Monitoring Software

- Provides Data Collection from Test Chambers

Other

- Failure Analysis Reporting and Documentation
- High Frequency Testing Capability to 70GHz