

Environmental Laboratory - DLA Approved*

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

*In support of internal product qualifications



Nitron XL2 XRF Analyzer

- Metal Alloy verification
- Non-destructive element analysis
- Tramp & Trace element analysis



Capabilities

Temperature Cycling Chamber

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

Thermal Shock Chambers- MIL-STD-202-107

- -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



Magnetoscop® 1.069

- Assures magnetic-free designs
- Measures magnetic flux density, absolute or gradient

Altitude Chamber- MIL-STD-202-105

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

10 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

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 Tester

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

High Power AC Testing

- Frequency Range: 0.1Hz to 2MHz
- Maximum Voltage: 400Vp-p
- Maximum Current: 7570mA
- Pulse, Ramp, Sine, Square & Triangle Waves

Pro 1600-EXN Forced Convection Reflow Soldering Oven

- Maximum Temperature: 375°C
- Computer Controlled Thermal Profiles

LabVIEW Monitoring Software

- Provides Data Collection from Test Chambers

Other

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

