



Accredited Laboratory

A2LA has accredited

ONEIDA RESEARCH SERVICES, INC.

Reading, PA

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 19th day of November 2019.

A handwritten signature in blue ink, written over a horizontal line.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2930.01
Valid to November 30, 2021

For the tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ONEIDA RESEARCH SERVICES, INC.
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Reading, PA 19605
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MECHANICAL

Valid To: November 30, 2021

Certificate Number: 2930.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on electrical components and subsystems, medical devices, optoelectronic components and subsystems, RF components and modules, integrated circuits, passive electronic components, relays, diodes, sensors, cables, cable assemblies, fiber assemblies, printed circuit boards, flex circuits, housings, ceramics, test boards, displays and plastic parts for the following industries: Telecommunication, Military, Automotive, Aerospace, Commercial and Medical:

Table with 2 columns: Test Type/Test Parameters and Test Method(s)/Standard(s). Rows include Temperature Tests, Accelerated Bias Age/Burn In/Life, High Temperature Storage/Stabilization Bake*, Low Temperature Storage*, Temperature Cycle*, and Power Temperature Cycle*.

Test Type/Test Parameters:	Test Method(s)/Standard(s):
High Temperature Reverse Bias (HTRB)	AEC-Q101; JESD22-A108; MIL-STD-750 Method 1042; MIL-STD-883 Method 1005
High Temperature Gate Bias (HTGB)	AEC-Q101; JESD22-A108; MIL-STD-750 Method 1042; MIL-STD-883 Method 1005
Thermal Shock* (-65 to 150) °C	JESD22-A106; MIL-STD-202 Method 107; MIL-STD-750 Method 1056; MIL-STD-883 Method 1011
Early Life Failure Rate (ELFR)	AEC-Q100-008
Intermittent Life	MIL-STD-750 Method 1036; MIL-STD-883 Methods 1006, 1005
Humidity Tests	
Damp Heat* (10 to 98) % RH	GR-468-CORE; MIL-STD-202 Method 103
Cyclic Moisture	JESD22-A100; MIL-STD-202 Method 106; MIL-STD-750 Method 1021; MIL-STD-810 Method 507; MIL-STD-883 Method 1004
Temperature Humidity Bias (THB)	JESD22-A101; MIL-STD-202 Method 103
Cycled THB	JESD22-A100; MIL-STD-750 Method 1021; MIL-STD-883 Method 1004
Vibration Tests	
Mechanical Shock* (Up to 1500 G's)	AEC-Q100, AEC-Q101, AEC-Q200; GR-468-CORE; JESD22-B104; MIL-STD-202 Method 213, Cond (A-F and J); MIL-STD-750 Method 2016; MIL-STD-883 Method 2002
Transportation Drop Test	D4169
Variable Frequency Vibration* (Up to 50 G's)	AEC-Q100, AEC-Q101; JESD22-B103; MIL-STD-202 Method 201; MIL-STD-750 Method 2056; MIL-STD-883 Method 2007
Random Vibration* (Up to 29 G's)	MIL-STD-202 Method 214, Cond 1 (A-H), and Cond 2 (A-G); MIL-STD-883 Method 2026, Cond 1 (A-H), and Cond 2 (A-G)
Vibration Fatigue	MIL-STD-750 Method 2046
Transportation Vibration	ASTM D999 Method A1 Repetitive Shock (Vertical Motion); ASTM D4169 Schedule D Stacked Vibration, Schedule E Vehicle Vibration, Schedule F Loose Load Vibration



Test Types/Test Parameters:	Test Method(s)/Standard(s):
<i>Other Tests</i>	
Highly Accelerated Stress Test (HAST)	JESD22-A110 (biased); JESD22-A118 (unbiased)
High Temperature Operating Life (HTOL)	AEC-Q100; JESD22-A108
Autoclave	JESD22-A102
Preconditioning	AEC-Q100, AEC-Q101; JESD22-A113
Moisture Sensitivity Level (MSL)	CSAM; J-STD-020; J-STD-035
Solderability	AEC-Q100, AEC-Q101, AEC-Q200; JSTD-002; MIL-STD-750 Method 2026; MIL-STD-883 Method 2003
Fiber Integrity	GR-326-CORE (4.4.3.2 and 4.4.3.3), GR-468-CORE (3.3.1.3.1 and 3.3.1.3.2)
Constant Acceleration* (Up to 50,000 G's)	AEC-Q100, AEC-Q101; MIL-STD-202 Method 212; MIL-STD-750 Method 2006; MIL-STD-883 Method 2001
Resistance to Solvents	AEC-Q101, AEC-Q200; JESD22-B107; MIL-STD-202 Method 215; MIL-STD-750 Method 1022; MIL-STD-883 Method 2015
Resistance to Solder Heat	AEC-Q101, AEC-Q200; JESD22-B106; MIL-STD-202 Method 210, Cond A, B, I, J and K; MIL-STD-750 Method 2031; MIL-STD-883 Method 2036, Cond A, B, I, J and K
External Visual	JESD22-B101; MIL-STD-750 Method 2071; MIL-STD-883 Method 2009

*Note: Also using customer specific test methods utilizing any combination of test equipment parameters listed above.

