



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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MECHANICAL

Valid To: February 28, 2024

Certificate Number: 2797.12

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following types of tests on integrated circuits and electronic components:

<u>Test(s):</u>	<u>Test Method(s):</u>
<u>Electrical</u>	
Voltage Stress	
Rise / Fall Time (2 to 10) ns Rise / Delay Time (130 to 170) ns Pin Capacity: 100 V to 8 kV Current: (0.15 to 5.86) A	JEDEC JS-001, JESD22-A114; MIL-STD 883 TM 3015; AEC-Q100-002, AEC-Q101-001; Test – Human Body Mod
Frequency (11 to 16) MHz Pin Capacity: 50V to 2 kV Current: (1.5 to 16.1) A	JEDEC JESD22-A115; AEC-Q100-003, AEC-Q101-002; Test – Machine Model
Pin Capacity (100 to 300) mA (70 to 125) °C	JEDEC JESD78; AEC-Q100-004; Test – IC Latch-Up
Rise / Fall Time < 400 ps Peak Current (2.25 to 18) A Pin Capacity: 50 V to 1 kV	JEDEC JESD22-C101, JEDEC JS-002; AEC-Q100-011, AEC-Q101-005; Test – Field Induced; Charged Device Model

<u>Test(s):</u>	<u>Test Method(s):</u>
<u>Environmental</u>	
Thermal Stress	
HTOL (High Temperature Operating Life) (85 ~ 150) °C ± 3 °C (1 to 4) V, (0 to 52) A	JESD22-A108
HTSL (High Temperature Storage Life) 150 °C (- 0 to 10) °C	JESD22-A103
THB (Temperature Humidity Bias) 85 °C ± 2 °C, 85 % ± 5 %RH	JESD22-A101
PPOT – Pressure Pot (Autoclave) 121 °C ± 2 °C, 29.7 psia, 100 %RH	JESD22-A102
HAST (Highly Accelerated Stress Test) 110 °C ± 2°C, 17.7 psia 130 ± 2°C, 33.3 psia 85 % ± 5 %RH	JESD22-A110
TMCL – Temperature Cycling Condition A-N (air to air) (-65 to 150) °C (10 to 15) min Dwell <10 s transfer	JESD22-A104; MIL-STD 883 TM 1011
Thermal Shock (-65 to 150) °C (Liquid to Liquid) 5 min dwell <10 s transfer	JESD22-A106; MIL-STD 883 TM 1011
Moisture Reflow Sensitivity Bake 125 + (-0 to 5) °C 30 to 85) °C ± 2 °C (60 to 85) % ±3% RH	JEDEC J-STD-020
Preconditioning Bake 125 + (-0 to 5) °C (30 to 85) °C ± 2 °C (60 to 85) ±3 %RH	JESD22-A113

<u>Test(s):</u>	<u>Test Method(s):</u>
<u>Optical</u>	
EDX - Energy Dispersive X-ray Spectroscopy Elements C to U; (5- 30) keV	Customer and Sample Dependent
Bond Shear Test Royce Instruments 620; SMS-250 g: Accuracy: $\pm 0.1\%$ gf Capacity: 250 gf Max SMS-5K: Accuracy $\pm 0.1\%$ kgf Capacity: 5 kgf Max	JEDEC – JESD22-B117; JEDEC – JESD22-B116; AEC-Q100; Customer and Sample Dependent
Wire Pull Test SMW-100g: Accuracy $\pm 0.1\%$ gf Capacity: 100 gf Max	MIL-STD-883 Method 2011; AEC-Q100; Customer and Sample Dependent
SEM- Scanning Electron Microscope (Defects Imaging)	Customer and Sample Dependent



Accredited Laboratory

A2LA has accredited

EUROFINS EAG ENGINEERING SCIENCE, LLC

Irvine, CA

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 14th day of March 2023.

A blue ink signature of Mr. Trace McInturff, written in a cursive style.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2797.12
Valid to February 28, 2024

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