IEC QUALITY ASSESSMENT SYSTEM (IECQ)
covering Electronic Components,
Assemblies, Related Materials and Processes
For rules and details of the IECQ visit www.iecq.org

IECQ Certificate of Approval
Independent Testing Laboratory

IECQ Certificate No.:	**IECQ-L ULTW 22.0003-01**	**Issue No.:**	**1**	**Status:**	**Current**
Additional Site to Certification: IECQ-L ULTW 22.0003		**Originally Issued: 2022/01/17**			
Supersedes:		**Issue Date:**	**2022/01/17**	**Site Added:**	**2022/01/17**
CB Reference No.:	50600440 ITL	**Expiration:**	**2025/01/16**		

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Hsinchu 302082
Taiwan

The organization, facilities and procedures have been assessed and found to comply with the applicable requirements for Independent Testing Laboratory organization approval, in support of the IECQ system, which is in accordance with the Basic Rules IECQ 01 and Rules of Procedure IECQ 03-6 "Independent Testing Laboratory Assessment Program Requirements" of the IEC Quality Assessment System for Electronic Components (IECQ) and applicable requirements of ISO/IEC 17025:2017 for the testing of electronic components under the IECQ.

Scope:
The provision of reliability test services of electronic components.
See attached schedule.

-- Attached Schedule: IECQ-L_ULTW_50600440 ITL. Schedule 01-17-22.pdf --

Approved by Certification Body (CB): DQS Group - DQS Taiwan Inc.

8th Fl., 23, Yuan Huan West Road,
Feng Yuan Dist., Taichung City
Taiwan

Rock Chang

Authorized person:
Rock Chang

-- Attached Translation: - None --

Schedule of Scope to Certificate of Conformity

Independent Testing Laboratory

IECQ Certificate No.: IECQ-L ULTW 22.0003-01
CB Certificate No.: 50600440 ITL

Schedule Number: IECQ-L ULTW 22.0003-01-S **Rev No.:** 1 **Revision Date:** 2022/01/17 **Page** 1 **of** 2

Appendix-1 (50600440 ITL)
Schedule of Scope to Certificate of Approval

Test Items	Standard/Method
ESD Human Body Model (HBM)	ANSI/ESDA/JEDEC JS-001-2017 AEC-Q100-002 AEC-Q101-001 MIL-STD-883
ESD Machine Model (MM)	JESD22-A115
ESD Charged Device Model (CDM)	ANSI/ESDA/JEDEC JS-002-2018 AEC-Q100-011 AEC-Q101-005
IC Latch-Up Test (LU)	JESD78 AEC-Q100-004 MIL-STD-883
Preconditioning Test	JESD22-A113 IPC/JEDEC J-STD-020 IPC/JEDEC J-STD-033
Acoustic Microscopy for Nonhermetic Encapsulated Electronic Components	IPC/JEDEC J-STD-035
High / Low Temperature Operating Teat (HTOL / LTOL)	JESD22-A108 MIL-STD-883 MIL-STD-750
Temperature and Bias Life Test	AEC-Q101 AEC-Q102 JESD22-A108 MIL-STD-750 MIL-STD-883
High Temperature Storage Life Test	JESD22-A103
Low Temperature Storage Life Test	JESD22-A119
Program / Erase Endurance and Data Retention Stress Test (EDR)	JESD22-A117 AEC-Q100-005

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Schedule of Scope to Certificate of Conformity

Independent Testing Laboratory

IECQ Certificate No.: IECQ-L ULTW 22.0003-01

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Schedule Number: IECQ-L ULTW 22.0003-01-S **Rev No.:** 1 **Revision Date:** 2022/01/17 **Page** 2 **of** 2

Early Life Failure Rate (ELFR)	JESD74 AEC-Q100-008 JESD85
Highly Accelerated Temperature and Humidity Stress Test (HAST)	JESD22-A110
Accelerated Moisture Resistance - Unbiased HAST (UHAST) & Unbiased Autoclave (AC)	JESD22-A118 JESD22-A102
Temperature-Humidity Biased Life Test	JESD22-A101
Cycled Temperature and Humidity Biased Life Test (Moisture Resistance)	JESD22-A100 MIL-STD-883
Temperature Cycling Test	JESD22-A104 MIL-STD-883
Power and Temperature Cycling Test	JESD22-A105
Intermittent Operational Life	MIL-STD-750
Temperature Shock Test	MIL-STD-810
Moisture Sensitivity Level (MSL)	JESD22-A113 IPC/JEDEC J-STD-020 IPC/JEDEC J-STD-033
Thermal Stress Test	IPC/JEDEC J-STD-020 IPC-TM-650 Method 2.6.27
Moisture and Insulation Resistance Test and Conductive Anodic Filament (CAF) Resistance	IPC-TM-650 Method 2.6.3 IPC-TM-650 Method 2.6.25
Dye and Pull Test (Dye and Pry Test)	IPC-TM-650 Method 2.4.53
Solderability Test	IPC J-STD-002 IPC J-STD-003

Technical Reviewer of DQS: Michael Chou Date: 1/17/2022

This schedule is only valid in conjunction with the referenced Certificate of Approval
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This approval is not transferable and remains the property of the issuing body.
The Status and authenticity of this approval and any schedule(s) may be verified by visiting the Official IECQ Website. www.iecq.org

DQS-Group - DQS Taiwan Inc., Feng Yuan Dist., Taichung City, Taiwan