

IEC QUALITY ASSESSMENT SYSTEM (IECQ) covering Electronic Components, Assemblies, Related Materials and Processes

For rules and details of the IECQ visit www.iecq.org

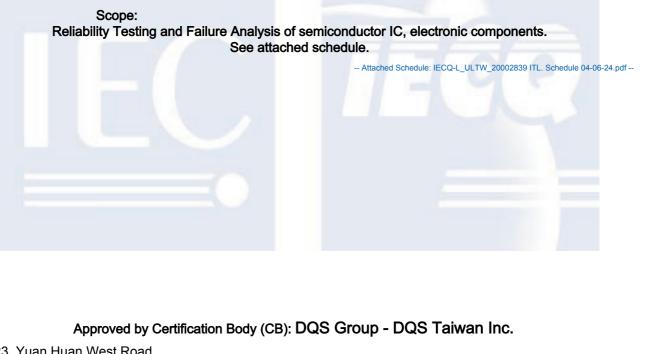
IECQ Certificate of Approval Independent Testing Laboratory

IECQ Certificate No .:	IECQ-L ULTW 18.0001	Issue No.:	7	Status:	Current
Supersedes:	IECQ-L ULTW 18.0001 Issue 6	Issue Date:	2024/04/06	Org Issue:	2018/05/30
CB Reference No.:	20002839 ITL	Expiration:	2027/05/29		

Winstek Semiconductor Co., Ltd. Reliability and Failure Analysis Laboratory

No. 176-5, 6 Ling, Hualung Chun, Chiung Lin, Hsin-Chu Hsien, 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.



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Sol Chen



Authorized person: **Bob CHEN**





The validity of this certificate is maintained through on-going surveillance audits by the IECQ CB issuing this certificate. This Certificate of Conformity may be suspended or withdrawn in accordance with the Rules of Procedure of the IECQ System and its Schemes. This certificate and any schedule(s) may only be reproduced in full. This certificate is not transferable and remains the property of the issuing IECQ CB. The Status and authenticity of this certificate may be verified by visiting www.iecq.org

-- Attached Translation: - None --



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Schedule of Scope to Certificate of Conformity

Independent Testing Laboratory

IECQ Certificate No.: IECQ-L ULTW 18.0001

CB Certificate No.: 20002839 ITL

Schedule Number: IECQ-L ULTW 18.0001-S Rev No.: 7 Revision Date: 2024/04/06 Page 1 of 2

Appendix-1 (20002839 ITL) Schedule of Scope to Certificate of Approval

Tests	Standards/Methods		
Electrostatic Discharge test (ESD-CDM)	ANSI/ESDA/JEDEC JS-002		
	AEC-Q100-011		
Electrostatic Discharge test (ESD-HBM/MM)	MIL-STD-883 Method 3015.8(HBM),		
	ANSI/ESDA/JEDEC JS-001		
	AEC-Q100-002(HBM)		
	JESD22-A115		
Electrostatic Discharge test (Latch-up)	JESD78		
	AEC-Q100-004		
High Temp Operating Life (HTOL)	JESD22-A108		
	AEC-Q100-008(ELFR)		
Precondition test / Moisture Sensitivity Level (MSL)	IPC/JEDEC J-STD-020		
	JESD22-A113		
Reflow	IPC/JEDEC J-STD-020		
High Temperature Storage test (HTST)	JESD22-A103		
Low Temperature Storage test (LTST)	JESD22-A119		
	MIL-STD-810 Method 502.7		
Accelerated Moisture Resistance-Unbiases	JESD22- A118		
(Unbiased HAST)			
Highly Accelerated Stress test (HAST)	JESD22- A110		
Pressure Cooker test (PCT)	JESD22-A102		
Temperature Cycle test (TC)	JESD22-A104		
Temperature and Humidity test (THT)	JESD22-A101		

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

IECQ-P Schedule of Scope Rev. 01



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Schedule Number: IECQ-L ULTW 18.0001-S Rev No.: 7

ev No.: 7 Revision Date: 2024/04/06 I

Page 2 of 2

Tests	Standards/Methods		
Temperature and Humidity with Bias test (THB)	JESD22-A101		
Surface Mount Technology (SMT)	IPC/JEDEC J-STD-020 IPC-A-610 IPC-7525		
Scanning Electron Microscope (SEM)	B-QA-LAB0-CM-09		
Energy-Dispersive Spectroscopy (EDS)	B-QA-LAB0-CM-09		
Scanning Acoustic Microscopy (SAM)	B-QA-LAB0-OI-17		
Atomic Force Microscope (AFM)	B-QA-LAB0-OI-14		
X-ray	B-QA-LAB0-OI-18		
Sample Preparation	B-QA-LAB0-OI-21		

Paul Tong

Technical Reviewer of DQS:

Date: 04/06/2024

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