



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

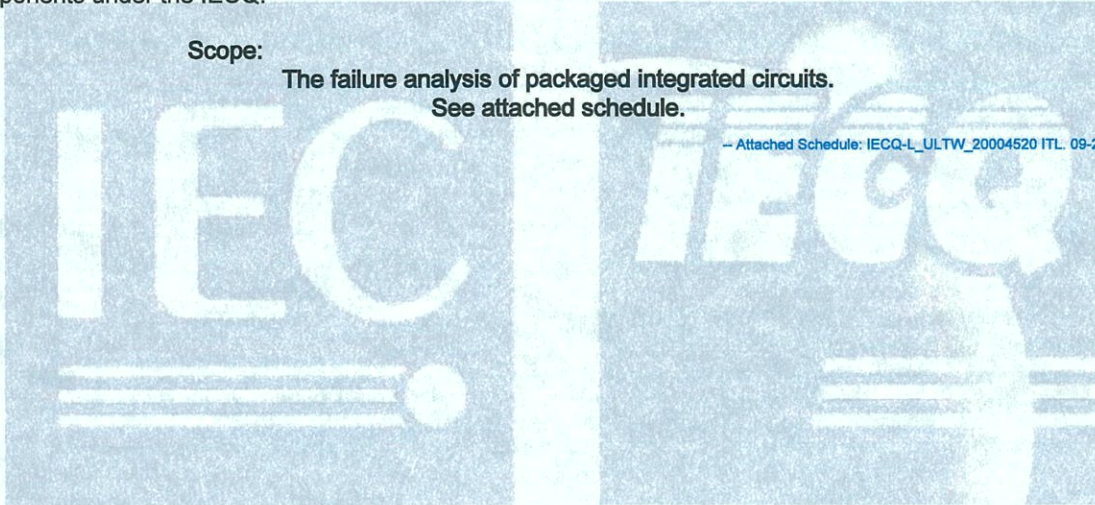
IECQ Certificate No.: IECQ-L ULTW 09.0027	Issue No.: 7	Status: Current
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CB Reference No.: 20004520 ITL	Expiration: 2026/10/25	

Advanced Semiconductor Engineering, Inc. Failure Analysis Laboratory
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 Kaohsiung, 811
 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 failure analysis of packaged integrated circuits.
 See attached schedule.

-- Attached Schedule: [IECQ-L_ULTW_20004520 ITL_09-21-23.pdf](#) --



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

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Authorized person:
Bob CHEN



The validity of this certificate is maintained through on-going surveillance audits by the IECQ CB issuing this certificate.
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Schedule of Scope to Certificate of Conformity Approved Process

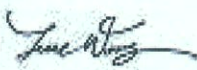
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Appendix-1 (20004520 ITL) Schedule of Scope to Certificate of Approval

Test Items	Standard/Method
Electrical Analysis (IV-curve tracer, TDR, Probing test, Electric meter, Isolation test, Open/short test, Auto curve tracer, Network analyzer, Module product analysis test, Power supply test, Thermal emission test, OBIRCH test, LCR meter, Oscilloscope)	AFOP-02, AFOP-03, AFOP-04, AFOP-05, AFOP-16, AFOP-17, AFOP-21, AFOP-22, AFOP-24, AFOP-26, AFOP-29, AFOP-30, AFQP-34, AFOP-37
Physical Analysis (Chemical etch test, High/Low-power microscope, Laser de-cap, Chemical de-cap, Molding /Grinding /Polishing /Cutting test, PECS test, SAT test, 2D/3D CT X-ray, CP test, RIE, Ion milling, PFIB, X-RADIA CT X-ray, SEM&EDX, Laser marking, IR microscope)	AFOP-01, AFOP-06, AFOP-10, AFOP-12, AFOP-13, AFOP-15, AFOP-18, AFOP-19, AFOP-20, AFOP-23, AFOP-25, AFOP-27, AFOP-28, AFOP-31, AFOP-35, AFOP-36


 Technical Reviewer of DQS: _____ Date: 09/21/2023

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