



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 17.0005	Issue No.:	2	Status:	Current
Supersedes:	IECQ-L ULTW 17.0005 Issue 1	Issue Date:	2019/12/16	Org Issue:	2017/11/28
CB Reference No.:	50600201 ITL	Expiration:	2020/11/27		

POWERCHIP SEMICONDUCTOR MANUFACTURING CORP.

(Semiconductor Reliability & Material Analysis Laboratory)

No. 12, Li-Hsin Rd. 1,
Hsinchu Science Park,
Hsinchu,
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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:

Reliability and Material analysis of semiconductor material.

-- Attached Schedule: IECQ-L_ULTW_50600201 ITL. Schedule 12-16-19.pdf --

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

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

Authorized person:
Rock Chang



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This Certificate of Conformity may be suspended or withdrawn in accordance with the Rules of Procedure of the IECQ System and its Schemes.

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Schedule of Scope to Certificate of Conformity Approved Process

IECQ Certificate No.: IECQ-L ULTW 17.0005

CB Certificate No.: 50600201 ITL

Schedule Number: IECQ-L ULTW 17.0005-S Rev No.: 1 Revision Date: 2019/12/16 Page 1 of 2

Appendix-1 (50600201 ITL) Schedule of Scope to Certificate of Approval

Test Items	Standard/Method
TDDDB	JESD92, JEP159A, JEP001-1A, JEP001-2A, Lab SOP RMSG-QWLR001-003
BTI	JESD90, JEP001-2A, Lab SOP RMSG-QWLR001-002
HCI	JESD28, JESD60, JEP001-2A, Lab SOP RMSG-QWLR001-001
EM	JEP001-1A, JESD33B, JESD87, Lab SOP RMSG-QWLR001-005
SM	JEP139, JESD214.01, JEP001-1A, Lab SOP RMSG-QWLR001-006
HTOL	AEC-Q100, JESD22-A108, JEP001-3A, Lab SOP RMSG-QRAI003-001
LTOL	AEC-Q100, JESD22-A108, JEP001-3A, Lab SOP RMSG-QRAI004-001
ELFR	AEC-Q100, AEC Q100-008, JEP001-3A, Lab SOP RMSG-QRAI002-001
EDR	AEC-Q100 , AEC Q100-005, Lab SOP RMSG-QRAI005-001
EMMI	Lab SOP RMSG-QPFA002-001
OBIRCH	Lab SOP RMSG-QPFA003-001
SEM	Lab SOP RMSG-RS82200-001, RMSG-RSE5500-001
TEM	Lab SOP RMSG-RTEMF20-001

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



Schedule of Scope to Certificate of Conformity Approved Process

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FIB	Lab SOP RMSG-QPFA001-001
EDS	Lab SOP RMSG-QPFA001-001
ICP MS	Lab SOP RMSG-ROMF001-001
SIMS	Lab SOP RMSG-ROSC001-001

Technical Reviewer of DQS:  Date: 12/16/2019

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