



Schedule of Scope to Certificate of Approval Independent Testing Laboratory

IECQ Certificate No.: IECQ-L ULTW 09.0023

CB Certificate No.: 20003329 ITL

Schedule Number: IECQ-L ULTW 09.0023-S

Rev No.: 11 Revision Date: 2023/12/19

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Appendix-1 (20003329 ITL) Schedule of Scope to Certificate of Approval

Description test	Standard
Low Temperature Operation 低溫操作測試	IEC 60068-2-1
Low Temperature Storage 低溫儲存測試	IEC 60068-2-1
High Temperature Operation 高溫操作測試	IEC 60068-2-2
High Temperature Storage 高溫儲存測試	IEC 60068-2-2
Temperature Cycling 溫度循環測試	IEC 60068-2-14
High Temperature & High Humidity Operation 高溫高濕操作測試	IEC 60068-2-78
High Temperature & High Humidity Storage 高溫高濕儲存測試	IEC 60068-2-78
Thermal Shock 冷熱衝擊測試	IEC 60068-2-14
Altitude Operation 高空操作測試	IEC 60068-2-13
Altitude Storage 高空儲存測試	IEC 60068-2-13
Solar Test 日照模擬測試	DIN 75220
Damp Heat Cycle Test Operation 溫濕度循環測試	IEC 60068-2-38 13QM100283
Combined Environments Test 複合環境測試	IEC 60068-2-38
Salt Test 鹽霧測試	IEC 60068-2-52
Harmful gas test 腐蝕性氣體測試	IEC 60068-2-60
Water protection - IPX	IEC 60068-2-18

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IEC QUALITY ASSESSMENT SYSTEM (IECQ)

covering Electronic Components,
Assemblies, Related Materials and Processes

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Description test	Standard
防水測試	IEC 60529
Dust Test 防塵測試	IEC 60529 IEC 60068-2-68 13QM100279
Rattling Test 振動異音測試	IEC 60068-2-65 ISO 7779 PR 311
Head Impact Test 頭部撞擊測試	ECE-R21 FMVSS No. 201U
Glass Strength-ROR (Ring on Ring) 雙環型彎曲強度測試	ASTM C1499-19
Glass Strength-4PB (4- Point Bending Test) 四點彎曲強度測試	13QM100284
Pressure Test 面壓測試	13QM100284
Mechanical Shock 機械衝擊測試	IEC 60068-2-27
Vibration (Sine wave) 振動測試 (正弦波)	IEC 60068-2-6
Vibration (Random) 振動測試 (隨機波)	IEC 60068-2-64 : 2008 + AMD1 : 2019
Thermal Vibration 溫度振動複合測試	IEC 60068-2-6 IEC 60068-2-7 : 1983+AMD1:1986 CSV IEC 60068-2-14 IEC 60068-2-38 IEC 60068-2-47 IEC 60068-2-53 IEC 60068-2-78 IEC 60068-2-64 : 2008+AMD1:2019 CSV
Packing Vibration 包裝振動測試	ISTA 2A ISTA 2B
Packing Drop 包裝落下測試	ISTA 1A ISTA 2A
Tensile Test 拉伸測試	13QM100284
Terminal ESD Test HBM (Non-O/P) 人體模型端子放電測試	IEC 60749-26 MIL-STD-883E(Method 3015.7)
Terminal ESD Test MM (Non-O/P) 機器模型端子放電測試	IEC 60749-27

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ESD-Air Mode Discharge 空氣放電靜電模擬測試	IEC 61000-4-2 ISO 10605
ESD-Contact Mode Discharge 接觸放電靜電模擬測試	IEC 61000-4-2 ISO 10605
Battery Compliance Test 電池規格測試	13QM100279
Optical measurement 光學量測	IDMS
Vacuum suck pump test 黃斑真空測試	IDMS
Paints and varnishes test 色漆和清漆試驗	ISO2409 TL226 13QM100599

Technical Reviewer of DQS: Paul Tseng Date: 12/19/2023

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