



Schedule of Scope to Certificate of Approval
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.: 4 Revision Date: 2025/01/07 Page 1 of 4

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

Table with 2 columns: Test Items, Standard/Method. Rows include ESD Human Body Model (HBM), ESD Machine Model (MM), ESD Charged Device Model (CDM), IC Latch-Up Test (LU), Preconditioning Test, Acoustic Microscopy for Nonhermetic Encapsulated Electronic Components, High / Low Temperature Operating Teat (HTOL / LTOL), and Temperature and Bias Life Test.

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



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High Temperature Gate Bias (HTGB)	AEC-Q101 JESD22-A108
High Temperature Reverse Bias (HTRB)	AEC-Q101 JESD22-A108
High Humidity High Temperature Reverse Bias (H3TRB)	AEC-Q101 JESD22-A101
High Temperature Storage Life Test	JESD22-A103
Low Temperature Storage Life Test	JESD22-A119
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

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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
Program / Erase Endurance and Data Retention Stress Test (EDR)	JESD22-A117 AEC-Q100-005
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
Conductive Resistance Test	IPC-TM-650 Method 2.5.32 IPC-9701
PCB Hot Oil Test	IPC-TM-650 Method 2.4.6
PCB Solder Float Resistance Test	IPC-TM-650 Method 2.4.13
Solder Ball Shear Test	JESD22-B117 JESD22-B116 AEC-Q100-001 AEC-Q100-010 AEC-Q101 AEC-Q102 AEC-Q104 IPC-TM-650 Method 2.4.42.3 MIL-STD-883 MIL-STD-750
Wire Bond Pull Test	JESD22-B120 AEC-Q101 AEC-Q102 AEC-Q104 IPC-TM-650 Method 2.4.42.3 MIL-STD-883

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	MIL-STD-750
Board Flex Test	JESD22-B113 AEC-Q101-002 AEC-Q200-005 EIAJ ED-4702A MIL-STD-883 IPC-9702
Lead Fatigue Test (Lead Integrity Test)	JESD22-B105 AEC-Q100 AEC-Q104 MIL-STD-883
Salt Spray Test (Salt Atmosphere Test)	JESD22-A107 MIL-STD-883 MIL-STD-750 ISO 10289

Technical Reviewer of DQS: Paul Yang Date: 01/07/2025

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