



Schedule of Scope to Certificate of Approval
Independent Testing Laboratory
IECQ Certificate No.: IECQ-L ULTW 09.0014
CB Certificate No.: 20000991 ITL

Schedule Number: IECQ-L ULTW 09.0014-S Rev No.: 9 Revision Date: 2023/05/17 Page 1 of 2

Appendix-1 (20000991 ITL)
Schedule of Scope to Certificate of Approval

1. Reliability Test :

Test Items	Standard/Method
Moisture/Reflow Sensitivity Classification for Nonhermetic Solid State Surface Mount Devices	IPC/JEDEC / J-STD-020
Preconditioning of Nonhermetic Surface Mount Devices Prior to Reliability Testing	JEDEC / JESD22-A113
High Temperature storage Life	JEDEC / JESD22-A103
Low Temperature Storage Life	JEDEC / JESD22-A119
Steady State Temperature Humidity Bias Life Test	JEDEC / JESD22-A101
Highly-Accelerated Temperature and Humidity Stress Test (HAST)	JEDEC / JESD22-A110
Accelerated moisture resistance - unbiased HAST	JEDEC / JESD22-A118
Accelerated Moisture Resistance-Unbias Autoclave	JEDEC / JESD22-A102
Thermal Shock	JEDEC / JESD22-A106
Temperature Cycling	JEDEC / JESD22-A104
Salt Atmosphere	JEDEC / JESD22-A107
Lead Integrity	JEDEC / JESD22-B105
Solderability	JEDEC / JESD22-B102
Solder Ball Shear	JEDEC / JESD22-B117
Mechanical Shock	JEDEC / JESD22-B110

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





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Vibration	JEDEC / JESD22-B103
Pull/Push Test	Lab SOP# RF-30-0008
Bent/Contact Durability Test	Lab SOP# RF-30-0009
Drop Test	Lab SOP# RF-30-0011
Twist Test	Lab SOP# RF-30-0012

2. Failure Analysis :

Test Items	Standard/Method
Electrical Analysis	Lab SOP# QM-30-0099
Optical Microscope	Lab SOP# RF-30-0010
Scanning Acoustic Tomograph (SAT)	Lab SOP# QM-30-0103
Cross Section	Lab SOP# QM-30-0096
Decap	Lab SOP# RF-30-0030
Scanning Electron Microscope (SEM) / Energy Dispersive Spectrometer (EDS)	Lab SOP# QM-30-0104


 Technical Reviewer of DQS: _____ Date: 5/17/2023

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