



Schedule of Scope to Certificate of Approval
Independent Testing Laboratory
 IECQ Certificate No.: IECQ-L ULTW 09.0014
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1. Reliability Test (International standards, including JEDEC, IPC, EIA, AEC, MIL, ...etc.) :

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-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
Wetting Balance Solderability	MIL-STD-883 / Method 2022
Solder Ball Shear	JEDEC / JESD22-B117
Mechanical Shock	JEDEC / JESD22-B110
Vibration	JEDEC / JESD22-B103
Pull/Push Test	Base on Customer's requirements
Bent/Contact Durability Test	Base on Customer's requirements
Drop Test	Base on Customer's requirements
Twist Test	Base on Customer's requirements

2. Failure Analysis of integrated circuits, including Electrical Analysis, Optical Microscope, Scanning Acoustic Tomograph (SAT) , Cross Section, Decap, Scanning Electron Microscope (SEM) / Energy Dispersive Spectrometer (EDS) , ...etc.

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