



Schedule of Scope to Certificate of Approval Independent Testing Laboratory

IECQ Certificate No.: IECQ-L DEKRA 17.0004

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1. Environmental and Reliability Testing of Electronic Components, Assemblies, and Related Materials

Description test	Standard	Remarks
Failure and material analysis of semiconductor IC, electronic components and PCB/PCBA, using FIB (Focused Ion Beam) and SEM (Scanning electron microscope)	MIL-STD-883 Method 2018.4 JESD22A121 JESD201	Or customer specified test
Failure and material analysis of semiconductor IC, electronic components and PCB/PCBA, includes Electrical Analysis and Physical Analysis with Sample Preparation (Decap, X-section, etc)	MIL-STD-883 Method 2009.9 IPC-A-610; IPC-A-600 MIL-STD-883 Method 2008.4 JESD22A121; JESD201 IPC-TM-650 2.1.1; IPC-6012	Or customer specified test
Failure and material analysis of semiconductor IC, electronic components and PCB/PCBA, includes NDE (Non-destructive Testing)	MIL-STD-883 Method 2012.7 J-STD-035 J-STD-020	Or customer specified test
Accelerated lifetime simulation tests. (Includes Operating Life test / Early life failure rate test/ Endurance and Data retention test / Electro-Migration /Miscellaneous test)	JESD 47, JESD22-A108/A117, JESD61, MIL-STD-202/750/810/883, AEC-Q100; AEC-Q101, AEC-Q200,	Or customer specified test
Electromagnetic compatibility and electrostatic discharge test. (Includes HBM / MM / CDM / Latch Up)	JEDEC22-A114/A115/C101, EIA/JESD78, ANSI JEDEC ESDA JS001/JS002; AEC-Q100-002/003/004/011, AEC-Q101-001/002/005, JEITA ED4701; MIL-STD-883,	Or customer specified test

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