



Schedule of Scope to Certificate of Approval Independent Testing Laboratory

IECQ Certificate No.: IECQ-L ULTW 09.0015

CB Certificate No.: 20004039 ITL

Schedule Number: IECQ-L ULTW 09.0015-S Rev No.: 10 Revision Date: 2023/06/16 Page 1 of 3

Appendix-1 (20004039 ITL) Schedule of Scope to Certificate of Approval

Description test	Standard
High temperature test	ASTM D4169; BELL Core GR-63; ETSI-300019 IEC60068-2-2; ISO 16750; ISTA; MIL-STD-810 IPC-TM-650; JESD22-A103; JESD22-A108
Low temperature test	ASTM D4169; BELL Core GR-63; ETSI-300019 IEC60068-2-1; ISO 16750; ISTA; MIL-STD-810 IPC-TM-650; JESD22-A108; JESD22-A119
Humidity storage test	ASTM D4169; BELL Core GR-63; ETSI-300019 IEC60068-2-30; IEC60068-2-78; ISO 16750 ISTA; MIL-STD-810; IPC-TM-650; JESD22-A101
Temperature cycling tests	BELL Core GR-63; ETSI-300019; IEC60068-2-14 ISO 16750; MIL-STD-810; IPC-TM-650; JESD22- A104;
Thermal shock tests	JESD22 A106; BELL Core GR-63; ETSI-300019 IEC60068-2-14; ISO 16750; MIL-STD-810; IPC-TM-650; MIL-STD-2164(EC)
Temperature and Humidity Bias Life test	IPC-TM-650; JESD22-A101; MIL-STD-883 Method 1004.7; JESD22-A100
Bias and Operating Life test	JESD22-A108
Pressure Cooker test	JESD22-A102;

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Schedule Number: IECQ-L ULTW 09.0015-S Rev No.: 10 Revision Date: 2023/06/16 Page 2 of 3

Highly Accelerated Stress test	JESD22-A110; JESD22-A102; JESD22-A118 ;
Salt spray test	ETSI-300019; IEC60068-2-11; JESD22-A107B ;ISO 16750 MIL- STD-883 IEC60068-2-52; MIL-STD-202; MIL-STD-810; ASTM B117
Vibration test	ASTM D4169; BELL Core GR-63; ETSI-300019; ISTA IEC60068-2-6; IEC60068-2-64; ISO 16750;JESD22-B103 MIL-STD-202;MIL-STD-810;MIL-STD-883; MIL-STD-2164(EC)
Mechanical Shock test	ETSI-300019; IEC60068-2-27; ISO 16750; JESD22-B104 MIL-STD-202; MIL-STD-810; MIL-STD-883; MIL-STD-1344
Free fall test	ASTM D4169; ETSI-300019; IEC60068-2-31; ISTA ISO 16750; MIL-STD-810
LED reliability tests/ driver reliability tests	IEC-60810; AEC-Q-101; IES LM-80; AEC-Q-102; AEC-Q-104
Automotive reliability tests	AEC-Q-100; AEC-Q-101; AEC-Q-102; AEC-Q-104; AEC-Q-200
Power Cycling	JESD22-A122;JESD22-A105
Intermittent Operational Life	MIL-STD-750-1 Method 1037
Pre-conditioning test	JESD22-A113
Reflow test	J-STD-020
Solderability test	J-STD-002 ; JEDECJ-STD-002 JESD22-B102
Steam aging test	J-STD-002

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Resistance to Solder Heat	JESD22-A113;J-STD-020; AEC-Q005; JESD22-B106; J-STD-020
multi-function material test(Bending test)	JESD22-B113; IPC 9704;IPC 9702; IEC 60068-2-21
Conductive resistance test	IPC 9701
Resistance measurement at single through holes test	IEC 61189-3-719; IPC-TM-650
Surface Insulation Resistance measurement	Bell core GR-78; IPC-TM-650
Conductive Anodic. Filament (CAF) Resistance. Test Electrochemical Migration	Bell core GR-78; IPC-TM-650; IPC 9691

Technical Reviewer of DQS: Michael Chou Date: 6/16/2023

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