



## Schedule of Scope to Certificate of Approval

### Independent Testing Laboratory

IECQ Certificate No.: IECQ-L CEP 23.0002

CB Certificate No.: IECQ-L 2023.005

Schedule Number: IECQ-L CEP 23.0002-S

Rev No.: 5

Revision Date: 2025/08/27

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| № | Products,<br>Materials                                    | Items,Parameter |                                                                                         | Title, Code of specification, standard or method<br>used                                                                          |
|---|-----------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
|   |                                                           | №               | Items,Parameter                                                                         |                                                                                                                                   |
| 1 | Integrated<br>Circuits<br>(MCU、<br>Memory、<br>Controller) | 1               | Input Clamping Voltage $V_{IK}$                                                         | Semiconductor Devices Integrated Circuits Part2: Digital Integrated Circuits<br>GB/T 17574-1998 Article 6, Section 2, Part IV     |
|   |                                                           | 2               | Output High Level Voltage $V_{OH}$                                                      | Semiconductor Devices Integrated Circuits Part2: Digital Integrated Circuits<br>GB/T 17574-1998 Article 1, Section 2, Part IV     |
|   |                                                           | 3               | Output Low Level Voltage $V_{OL}$                                                       | Semiconductor Devices Integrated Circuits Part2: Digital Integrated Circuits<br>GB/T 17574-1998 Article 1, Section 2, Part IV     |
|   |                                                           | 4               | Input High Level Current $I_{IH}$                                                       | Semiconductor Devices Integrated Circuits Part2: Digital Integrated Circuits<br>GB/T 17574-1998 Article 2, Section 2, Part IV     |
|   |                                                           | 5               | Input Low Level Current $I_{IL}$                                                        | Semiconductor Devices Integrated Circuits Part2: Digital Integrated Circuits<br>GB/T 17574-1998 Article 2, Section 2, Part IV     |
|   |                                                           | 6               | Power Supply Current $I_{CC}$                                                           | Semiconductor Devices Integrated Circuits Part2: Digital Integrated Circuits<br>GB/T 17574-1998 Article 1, Section 3, Part IV     |
|   |                                                           | 7               | Output Low Level Power<br>Supply Current $I_{CCL}$                                      | Semiconductor Devices Integrated Circuits Part2: Digital Integrated Circuits<br>GB/T 17574-1998 Article 4, Section 2, Part IV     |
|   |                                                           | 8               | Output High Level Power<br>Supply Current $I_{CCH}$                                     | Semiconductor Devices Integrated Circuits Part2: Digital Integrated Circuits<br>GB/T 17574-1998 Article 4, Section 2, Part IV     |
|   |                                                           | 9               | Output transmission delay<br>time from low level to high<br>level $t_{PLH}$             | Semiconductor Devices Integrated Circuits Part2: Digital Integrated Circuits<br>GB/T 17574-1998 Article 4.1.2, Section 3, Part IV |
|   |                                                           | 10              | Output transmission delay<br>time from high level to low<br>level $t_{PHL}$             | Semiconductor Devices Integrated Circuits Part2: Digital Integrated Circuits<br>GB/T 17574-1998 Article 4.1.2, Section 3, Part IV |
|   |                                                           | 11              | Output transmission delay<br>time from high resistance<br>state to high level $t_{PZH}$ | Semiconductor Devices Integrated Circuits Part2: Digital Integrated Circuits<br>GB/T 17574-1998 Article 4.5, Section 3, Part IV   |
|   |                                                           | 12              | Output transmission delay<br>time from high resistance<br>state to low level $t_{PZL}$  | Semiconductor Devices Integrated Circuits Part2: Digital Integrated Circuits<br>GB/T 17574-1998 Article 4.5, Section 3, Part IV   |
|   |                                                           | 13              | Output transmission delay<br>time from high level to high<br>resistance state $t_{PHZ}$ | Semiconductor Devices Integrated Circuits Part2: Digital Integrated Circuits<br>GB/T 17574-1998 Article 4.5, Section 3, Part IV   |
|   |                                                           | 14              | Output transmission delay<br>time from low level to high<br>resistance state $t_{PLZ}$  | Semiconductor Devices Integrated Circuits Part2: Digital Integrated Circuits<br>GB/T 17574-1998 Article 4.5, Section 3, Part IV   |

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| 2 | Integrated Circuits (Voltage comparator)    | 1 | Input Offset Voltage $V_{IO}$            | Basic Principle of Voltage Comparator Test Method<br>SJ/T 10805-2018 Section 5.1                          |
|   |                                             | 2 | Input Offset Current $I_{IO}$            | Basic Principle of Voltage Comparator Test Method<br>SJ/T 10805-2018 Section 5.3                          |
|   |                                             | 3 | Input Bias Current $I_{IB}$              | Basic Principle of Voltage Comparator Test Method<br>SJ/T 10805-2018 Section 5.5                          |
|   |                                             | 4 | Output High Level Voltage $V_{OH}$       | Basic Principle of Voltage Comparator Test Method<br>SJ/T 10805-2018 Section 5.13                         |
|   |                                             | 5 | Output Low Level Voltage $V_{OL}$        | Basic Principle of Voltage Comparator Test Method<br>SJ/T 10805-2018 Section 5.14                         |
| 3 | Integrated Circuits (Operational Amplifier) | 1 | Input Offset Voltage $V_{IO}$            | Test Methods for Operational Amplifiers of Semiconductor Integrated Circuits<br>QJ 2491/1993 Section 5.1  |
|   |                                             | 2 | Input Offset Current $I_{IO}$            | Test Methods for Operational Amplifiers of Semiconductor Integrated Circuits<br>QJ 2491/1993 Section 5.4  |
|   |                                             | 3 | Input Bias Current $I_{IB}$              | Test Methods for Operational Amplifiers of Semiconductor Integrated Circuits<br>QJ 2491/1993 Section 5.7  |
|   |                                             | 4 | Open-loop gain $A_{VD}$                  | Test Methods for Operational Amplifiers of Semiconductor Integrated Circuits<br>QJ 2491/1993 Section 5.10 |
|   |                                             | 5 | Commo Mode Rejection Ratio $K_{CMR}$     | Test Methods for Operational Amplifiers of Semiconductor Integrated Circuits<br>QJ 2491/1993 Section 5.11 |
|   |                                             | 6 | Output Voltage Conversion Rate SR        | Test Methods for Operational Amplifiers of Semiconductor Integrated Circuits<br>QJ 2491/1993 Section 5.21 |
|   |                                             | 7 | Gain Bandwidth G.BW                      | Test Methods for Operational Amplifiers of Semiconductor Integrated Circuits<br>QJ 2491/1993 Section 5.32 |
| 4 | Integrated Circuits (Voltage Regulator)     | 1 | Output Votage $V_o$                      | Test Methods for Voltage Regulators of Semiconductor Integrated Circuits<br>GB/T 4377-2018 Section 4.17   |
|   |                                             | 2 | Votage Regulation SV                     | Test Methods for Voltage Regulators of Semiconductor Integrated Circuits<br>GB/T 4377-2018 Section 4.1    |
|   |                                             | 3 | Current Regulation ST                    | Test Methods for Voltage Regulators of Semiconductor Integrated Circuits<br>GB/T 4377-2018 Section 4.2    |
| 5 | Integrated Circuits (Analog Switch)         | 1 | Analog Voltage Operating Range $V_A$     | Test Methods for Analog Switch of Semiconductor Integrated Circuits<br>GB/T 14028-2018 Section 2.1        |
|   |                                             | 2 | On-resistance $R_{ON}$                   | Test Methods for Analog Switch of Semiconductor Integrated Circuits<br>GB/T 14028-2018 Section 2.2        |
|   |                                             | 3 | Cut-off State Drain Current $I_{D(OFF)}$ | Test Methods for Analog Switch of Semiconductor Integrated Circuits<br>GB/T 14028-2018 Section 2.4        |

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| 6 | Discrete Semiconductor Devices - Diodes (Voltage regulation diodes, switching diodes, current regulation diodes, transient suppression diodes) | 1 | Forward Voltage $V_F$                                | Discrete Semiconductor Devices Part3: Signal (including switch) and Adjustment Diodes<br>GB/T 6571-1995 Article 2, Section 1, Part IV     |
|   |                                                                                                                                                | 2 | Reverse Current $I_R$                                | Discrete Semiconductor Devices Part3: Signal (including switch) and Adjustment Diodes<br>GB/T 6571-1995 Article 1, Section 1, Part IV     |
|   |                                                                                                                                                | 3 | Operating Voltage $V_Z$                              | Discrete Semiconductor Devices Part3: Signal (including switch) and Adjustment Diodes<br>GB/T 6571-1995 Article 1, Section 2, Part IV     |
|   |                                                                                                                                                | 4 | Differential Resistance $r_z$                        | Discrete Semiconductor Devices Part3: Signal (including switch) and Adjustment Diodes<br>GB/T 6571-1995 Article 2, Section 2, Part IV     |
|   |                                                                                                                                                | 5 | Breakdown Voltage $V_{(BR)}$                         | Semiconductor Devices Discrete Devices and Integrated Circuits Part2: Rectifiers<br>GB/T 4023-2015 Article 7.1.3                          |
| 7 | Discrete Semiconductor Devices - Bipolar transistor                                                                                            | 1 | Collector-base cut-off Current $I_{CBO}$             | Semiconductor Devices Discrete Devices and Integrated Circuits Part7: Bipolar transistor<br>GB/T4587-2023 Article 2.1, Section 1, Part IV |
|   |                                                                                                                                                | 2 | Emitter-base cut-off current $I_{EBO}$               | Semiconductor Devices Discrete Devices and Integrated Circuits Part7: Bipolar transistor<br>GB/T4587-2023 Article 2.2, Section 1, Part IV |
|   |                                                                                                                                                | 3 | Collector-emitter cut-off current $I_{CEO}$          | Semiconductor Devices Discrete Devices and Integrated Circuits Part7: Bipolar transistor<br>GB/T4587-2023 Article 3, Section 1, Part IV   |
|   |                                                                                                                                                | 4 | Collector-emitter saturation voltage $V_{CEsat}$     | Semiconductor Devices Discrete Devices and Integrated Circuits Part7: Bipolar transistor<br>GB/T4587-2023 Article 4, Section 1, Part IV   |
|   |                                                                                                                                                | 5 | Base-emitter saturation voltage $V_{BEsat}$          | Semiconductor Devices Discrete Devices and Integrated Circuits Part7: Bipolar transistor<br>GB/T4587-2023 Article 5, Section 1, Part IV   |
|   |                                                                                                                                                | 6 | Common emitter forward current transmission $h_{fe}$ | Semiconductor Devices Discrete Devices and Integrated Circuits Part7: Bipolar transistor<br>GB/T4587-2023 Article 9.6, Section 1, Part IV |
|   |                                                                                                                                                | 7 | Collector-base breakdown voltage $V_{(BR) CBO}$      | Test Method for semiconductor discrete devices<br>GJB 128B-2021 Method 3001                                                               |
|   |                                                                                                                                                | 8 | Emitter-base breakdown voltage $V_{(BR) EBO}$        | Test Method for semiconductor discrete devices<br>GJB 128B-2021 Method 3026                                                               |
| 8 | Discrete Semiconductor Devices -Field effect transistor                                                                                        | 1 | Gate cut-off current $I_{GSS}$                       | Semiconductor Devices Discrete Devices and Integrated Circuits Part8: Field effect transistor<br>GB/T 4586-1994 Article 2, Part IV        |
|   |                                                                                                                                                | 2 | Drain cut-off current $I_{DSS}$                      | Semiconductor Devices Discrete Devices and Integrated Circuits Part8: Field effect transistor<br>GB/T 4586-1994 Article 4, Part IV        |

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|   |                           | 3  | Gate-source threshold voltage $V_{GS(th)}$                   | Semiconductor Devices Discrete Devices and Integrated Circuits Part8: Field effect transistor<br>GB/T 4586-1994 Article 6, Part IV                                                                                        |
|   |                           | 4  | Small signal short circuit forward transconductance $g_{fs}$ | Semiconductor Devices Discrete Devices and Integrated Circuits Part8: Field effect transistor<br>GB/T 4586-1994 Article 10, Part IV                                                                                       |
|   |                           | 5  | Static source-leakage on-state resistance $r_{DS(on)}$       | Semiconductor Devices Discrete Devices and Integrated Circuits Part8: Field effect transistor<br>GB/T 4586-1994 Article 15, Part IV                                                                                       |
|   |                           | 6  | Drain-source breakdown voltage $V_{(BR)DSS}$                 | Test methods for discrete semiconductor devices Part3<br>MIL-STD-750-3-2019 Method: 3407.1                                                                                                                                |
| 9 | AEC-Q100 Reliability Test | 1  | Preconditioning (PC)                                         | Muisture/Reflow Sensitivity Classification for Nonhermetic Surface Mount Devices<br>JEDEC J-STD-020F-2022<br>Preconditioning of Nonhermetic Surface Mount Devices Prior to Reliability Testing<br>JEDEC JESD22-A113I-2020 |
|   |                           | 2  | Temperature-Humidity-Bias (THB)                              | Steady-State Temperature-Humidity Bias Life Test<br>JEDEC JESD22-A101D.01-2021                                                                                                                                            |
|   |                           | 3  | Biased HAST (HAST)                                           | Highly Accelerated Temperature and Humidity Stress Test<br>JEDEC JESD22-A110E.01-2021                                                                                                                                     |
|   |                           | 4  | Autoclave (AC)                                               | Accelerated Moisture Resistance-Unbiased Autoclave<br>JEDEC JESD22-A102E-2015                                                                                                                                             |
|   |                           | 5  | Unbiased HAST (UHAST)                                        | Accelerated Moisture Resistance-Unbiased HAST<br>JEDEC JESD22-A118B.01-2021                                                                                                                                               |
|   |                           | 6  | Temperature-Humidity (without Bias) (TH)                     | Steady-State Temperature-Humidity Bias Life Test<br>JEDEC JESD22-A101D.01-2021                                                                                                                                            |
|   |                           | 7  | Temperature Cycling (TC)                                     | Temperature Cycling<br>JEDEC JESD22-A104F.1-2023                                                                                                                                                                          |
|   |                           | 8  | High Temperature Storage Life (HTSL)                         | High Temperature Storage Life<br>JEDEC JESD22-A103E.01-2021                                                                                                                                                               |
|   |                           | 9  | High Temperature Operating Life (HTOL)                       | Temperature, Bias, and Operating Life<br>JEDEC JESD22-A108G-2022                                                                                                                                                          |
|   |                           | 10 | Early Life Failure Rate (ELFR)                               | Early Life Failure Rate<br>AEC Q100-008A-2003                                                                                                                                                                             |
|   |                           | 11 | NVM Endurance, Data Retention, and Operational Life (EDR)    | NVM Endurance, Data Retention, and Operational Life<br>AEC Q100-005D1-2012                                                                                                                                                |
|   |                           | 12 | Wire Bond Shear (WBS)                                        | Wire Bond Shear<br>AEC Q100-001C-1998                                                                                                                                                                                     |

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|    |                           | 13 | Wire Bond Pull (WBP)                                              | Test Methods for Microelectronic Devices<br>MIL-STD-883L-2019 Method 2011.10                                                                                                                                              |
|    |                           | 14 | Solderability(SD)                                                 | Solderability<br>JESD22-B102E-2007                                                                                                                                                                                        |
|    |                           | 15 | Physical Dimensions(PD)                                           | Physical Dimensions<br>JEDEC JESD22-B100B-2003                                                                                                                                                                            |
|    |                           | 16 | Solder Ball Shear(SBS)                                            | Solder Ball Shear<br>AEC Q100-010A-2003                                                                                                                                                                                   |
|    |                           | 17 | Lead Integrity(LI)                                                | Lead Integrity<br>JESD22-B105E-2017                                                                                                                                                                                       |
|    |                           | 18 | Mechanical Shock(MS)                                              | Mechanical Shock-Component and Subassembly<br>JEDEC JESD22-B110B.01-2019                                                                                                                                                  |
|    |                           | 19 | Variable Frequency Vibration(VFV)                                 | Variable Frequency Vibration<br>JEDEC JESD22-B103B.01-2016                                                                                                                                                                |
|    |                           | 20 | Constant Acceleration(CA)                                         | Test Methods for Microelectronic Devices<br>MIL-STD-883L-2019 Method 2001                                                                                                                                                 |
|    |                           | 21 | Gross/Fine Leak(GFL)                                              | Test Methods for Microelectronic Devices MIL-STD-883L-2019 Method 1014                                                                                                                                                    |
|    |                           | 22 | Die Shear(DS)                                                     | Test Methods for Microelectronic Devices MIL-STD-883L-2019 Method 2019                                                                                                                                                    |
|    |                           | 23 | Electrostatic Discharge Charged Devices Mode (CDM)                | Electrostatic Discharge Charged Devices Mode AEC Q100-011-2019                                                                                                                                                            |
| 10 | AEC-Q101 Reliability Test | 1  | Preconditioning (PC)                                              | Moisture/Reflow Sensitivity Classification for Nonhermetic Surface Mount Devices<br>JEDEC J-STD-020F-2022<br>Preconditioning of Nonhermetic Surface Mount Devices Prior to Reliability Testing<br>JEDEC JESD22-A113I-2020 |
|    |                           | 2  | Biased HAST (HAST)                                                | Highly Accelerated Temperature and Humidity Stress Test<br>JEDEC JESD22-A110E.01-2021                                                                                                                                     |
|    |                           | 3  | High Humidity, High Temperature Reverse Bias (H <sup>2</sup> TRB) | High Humidity, High Temperature Reverse Bias JEDEC JESD22-A101D.01-2021                                                                                                                                                   |
|    |                           | 4  | Unbiased HAST (UHAST)                                             | Accelerated Moisture Resistance-Unbiased HAST<br>JEDEC JESD22-A118B.01-2021                                                                                                                                               |
|    |                           | 5  | Autoclave (AC)                                                    | Accelerated Moisture Resistance-Unbiased Autoclave<br>JEDEC JESD22-A102E-2015                                                                                                                                             |
|    |                           | 6  | Temperature Cycling (TC)                                          | Temperature Cycling<br>JEDEC JESD22-A104F.01-2023                                                                                                                                                                         |
|    |                           | 7  | Intermittent Operational Life(IOL)                                | Test Methods for Discrete Semiconductor Devices<br>MIL-STD-750-1B-2023 Method 1037.3                                                                                                                                      |

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|  | 8  | High Temperature Reverse Bias (HTRB) | Test Methods for Discrete Semiconductor Devices<br>MIL-STD-750-1B-2023 Method 1038.5、1039.4                                                                                                |
|  | 9  | Steady State Operational (SSOP)      | Test Methods for Discrete Semiconductor Devices<br>MIL-STD-750-1B-2023 Method 1038.5                                                                                                       |
|  | 10 | High Temperature Gate Bias (HTGB)    | Temperature, Bias, and Operating Life<br>JEDEC JESD22-A108G-2022                                                                                                                           |
|  | 11 | Physical Dimensions(PD)              | Physical Dimensions<br>JEDEC JESD22-B100B-2003                                                                                                                                             |
|  | 12 | Wire Bond Shear Strength (WBS)       | Wire Bond Shear Strength<br>AEC Q101-003A-2005<br>JEDEC JESD22-B116B-2017                                                                                                                  |
|  | 13 | Wire Bond Pull Strength (WBP)        | Test Methods for Discrete Semiconductor Devices<br>MIL-STD-750-2A-2020 Method 2037.1<br>Qualification Requirements For Components Using Copper (Cu) Wire Interconnections<br>AEC Q006-2015 |
|  | 14 | Die Shear (DS)                       | Test Methods for Discrete Semiconductor Devices<br>MIL-STD-750-2A-2020 Method 2017.3                                                                                                       |
|  | 15 | Terminal Strength (TS)               | Test Methods for Discrete Semiconductor Devices<br>MIL-STD-750-2A-2020 Method 2036.5                                                                                                       |
|  | 16 | Resistance to Solvents (RTS)         | Mark Permanency<br>JEDEC JESD22-B107D-2011                                                                                                                                                 |
|  | 17 | Resistance to Solder Heat (RSH)      | Evaluation Procedure for Determining Capability to Bottom Side Board Attach by Full Body Solder Immersion of Small Surface Mount Solid State Devices<br>JEDEC JESD22-A111B-2018            |
|  |    |                                      | Resistance to Soldering Temperature for Through-Hole Mounted Devices<br>JEDEC JESD22-B106E-2016                                                                                            |
|  | 18 | Solderability(SD)                    | Solderability Tests for Component Leads, Terminations, Lugs, Terminals and Wires<br>J-STD-002E-2017                                                                                        |
|  | 19 | Constant Acceleration(CA)            | Test Methods for Discrete Semiconductor Devices<br>MIL-STD-750-2A-2020 Method 2006                                                                                                         |
|  | 20 | Vibration, Variable Frequency(VVF)   | Vibration, Variable Frequency<br>JEDEC JESD22-B103B.01-2016                                                                                                                                |
|  | 21 | Mechanical Shock(MS)                 | Mechanical Shock-Component and Subassembly JEDEC JESD22-B110B.01-2019                                                                                                                      |
|  | 22 | Hermeticity(HER)                     | Hermeticity<br>JEDEC JESD22-A109B-2011                                                                                                                                                     |
|  | 23 | External Visual (EV)                 | External Visual<br>JEDEC JESD22-B101D-2022                                                                                                                                                 |
|  | 24 | ESD HBM Characterization (ESDC)      | ESD HBM Characterization<br>AEC Q101-005-2019                                                                                                                                              |

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