



**SEMICONDUCTOR
RELIABILITY TEST &
CHARACTERIZATION LAB**

The **Reliability Lab** is an initiative by Tessolve to bring in an Eco System that can be used by Semiconductor, product and system design companies to make sure their products are qualified on time and with less effort & cost.

Tessolve with proven Test / Reliability Engineering Expertise with highly skilled, efficient and proven Reliability Engineers in-house combined with state of the art test equipment and infrastructure can be perceived as a one stop facility for all solutions for semiconductor Reliability and end to end Package Qualification solution.

Reliability being an important and at the last stage of the product development life cycle has to be executed with utmost care and Tessolve provides the right Reliability infrastructure to get product tested and qualified.



Reliability Services.

- HTOL
- Temperature Cycling
- Thermal Shock
- HAST
- Auto Clave
- HTSL
- ELFR

Post-Silicon Electrical Validation and Characterization

- Design and Testing of Characterization Board
- Device wake-up and trimming
- Debug support
- Test and Validation Plan
- Identification of Right Equipments and Test Tools
- Automated Test Sequence Development
- Data Collection across PVT and ATE Correlation(24x7)
- Data Plots preparation
- Data Sheet Electrical Spec confirmation
- Report Submission



EQUIPMENTS AVAILABLE

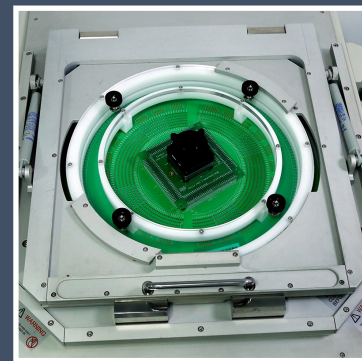
S/N	EQUIPMENT	DESCRIPTION	MODEL	MANUFACTURER
1	Power Supply	Power Supply, 0–32 V, 6 Amp DC	PWS2326	Tektronix
2	Waveform Generator	Arbitrary Waveform Generator: 2-channel, 2G samples record length, 10 bit	AWG70002A	Tektronix
3	Power Supply	Programmable DC Power Supply, 80V, 27A, 720W	2260B-80-27	Tektronix
4	Power Supply	Programmable Triple Channel DC Power Supply	2230G-30-1	Tektronix
5	Logic Analyser	136 Channel, 25 GHz MagniVu Timing, 333 MHz State Clock, 2 Mb Record Length Logic Analyzer, Certificate of Traceable Calibration Standard, RUL*2	TLA6404	Tektronix
6	Bench Digital Multimeter	8.5d DMM W/128K MEMORY	2002/MEM2	Tektronix
7	Bertscope Clock Recovery Instrument	12.5Gb/s Clock Recovery Instrument	CR125A	Tektronix
8	Rf Amplifier	AMPLIFIER, 25dB GAIN, 2.5kHz–10GHz	PSPL5866	Tektronix
9	Bertscope	BERTScope 12.5 Gb/s Pattern Generator and Error Analyzer	BSA125C	Tektronix
10	Vector Network Analyser	ZNB20 VECT.NETW.ANALYZER 4 PORT	ZNB20	Rhode& Schwarz
11	Spectrum Analyser	FSV13 SIGNAL ANALYSER 13.6GHZ	FSV13	Rhode& Schwarz
12	Pulse Function Arbitrary Noise Generator	1-or 2-channel 120MHz Pulse-/Function-/Arbitrary Generator	U81150A	Keysight Technologies
13	Audio Analyzer	AUDIO ANALYZER, 10 Hz TO 100 KHz	U8903A-CFG113	Keysight Technologies
14	Oscilloscope	DIGITAL SIGNAL ANALYZER -16 GHz 80/40 Gsa/s 4 CH 50M	DSAX91604A	Keysight
15	Cdm Tester	CDM STIMULATOR HED-C5000R	HED-C5000R	Hanwa
16	Hed-n5000	ESD SIMULATOR HED-N5000	HED-N5000	Hanwa
17	Thermostream	ATS-710-M-9 THERMOSTREAM SYSTEM 225-234V 50 Hz	ATS-710-M-9	Intest Thermal Solutions
18	Decapsulator	AUTO DECAPSULATOR	NISENE	Multiflo Instruments Pvt Ltd
19	Burn In System	SM-12 E-PTC VBTS-M/BURN IN SYSTEM	SM-12 E-PTC	Eda



S/N	EQUIPMENT	DESCRIPTION	MODEL	MANUFACTURER
20	Burn In Oven	SM-12 E-OLT VBTS-M/BURN IN OVEN	SM-12 E-OLT	Eda
21	Bake Oven	400 sq mm,6kw,25C ~ 250C with 4point data logger software,+/- 1 deg C accuracy, Provision for N2 entry	0NB-05-17	Thermo Electric Technologies
22	UV Erasermatic	Variable Timer from 0 to 60 minutes capacity:Two 12" wafers at a time,8"/12" Dia wafer,Wave length-254nm	U.V.ERASER-050	Tmpl
23	Thermal Shock Chamber	2-zone transition by vertical transfer of specimens Hot exposure range: +60 to +205°C Cold exposure range: -77 to 0°C	TSD-101-W	Espec
24	Temperature & Humidity Chamber	Balanced Temperature & Humidity Control (BTHC) system Temp Range:-75 to +180°C Temp. & humid. Range :+10 to +95°C / 10 to 98%rh	ARS-0220	Espec
25	Highly Accelerated Stress Test System (Hast)	Single vessel, unsaturated control, wet saturated control, dry and wet-bulb temperature control Temperature control range:+105.0 to +162.2°C Humidity control range:75 to 100%rh Pressure range:0.020 to 0.392 MPa (Gauge)	EHS-412 (M)	Espec

TJ TESSOLVE
A HERO ELECTRONIX VENTURE

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