BOARD LEVEL RELIABILITY TEST SERVICE (BLR)

- SOLDER INTERCONNECT RELIABILITY
- BLR THERMAL CYCLING TEST
- BLR DROP TEST
- BLR BENDING TEST
- IN-HOUSE BLR BOARD DESIGN
- GLITCH/EVENT DETECTION AND MONITORING
BOARDS LEVEL RELIABILITY TEST SERVICE (BLR)

TEST BOARD DESIGN
- In-house test board design capability and knowhow
- JEDEC 220 mm x 127 mm, 2-layer FR4 board for TC test
- JEDEC 77 mm x 77 mm, 10-layer FR4 board for drop test
- JEDEC 77 mm x 132 mm, 8-layer FR4 board for bending
- Break-out boards for fast FA
- Daisy chain resistance loop for monitoring

THERMAL CYCLING TEST
- Typical test condition -40 °C/+125 °C, 1 cycle/hour, 10-11 K/min
- Data acquisition by daisy chain resistance monitoring
- Test according JEDEC JESD22-104
- Espec TCC-150, Espec HC-120, Espec EGNZ12-7.5cwl systems
- Central monitoring system (CMS)

DROP TEST
- Lansmont drop tester
- BLR drop tester, developed by MASER Engineering
- Glitch detection by daisy chain resistance monitoring
- JEDEC JESD22-B111, 1500g, half sine, 0.5ms, drop until fail or 1000 drop cycles
- Drop tests according customer specification
- Characterization of solder joint reliability using Weibull

BEND TEST
- Bend tester, developed by MASER Engineering
- Data acquisition by daisy chain resistance monitoring
- Test according JEDEC JESD22-B113 (dynamic)
- Test according IPC9702 (static)
- Test according IEC 60068-2-21 (static)