

Yelo Overview2022

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Proprietary to Yelo





Burn-in and Life Test

Design & Manufacture of Burn-in & lifetest equipment







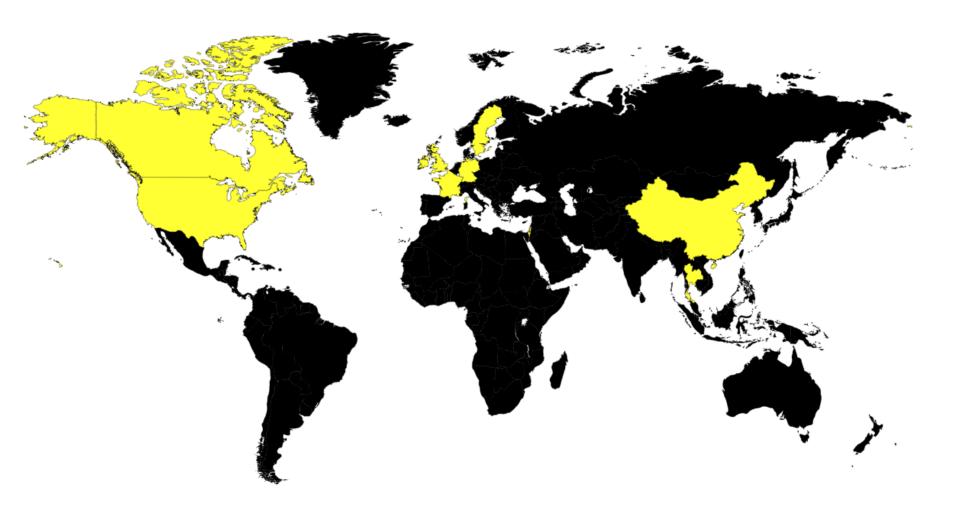


Y1000 Low Power Series

Y4000 Low Power Series Y2500 High Power System Characterisation System



Yelo International Footprint







- Happens during device development
- Needed to prove long term reliability (Telcordia)
- Wafer qualification
- > Test a representative sample of devices
- Used to find "sweet spot" for future burn-in (at what current and temperature device will wear out)
- Optical degradation of the laser diode is observed and recorded by precisely measuring changes in the laser's operating characteristics during the test.



Burn-in

- Identify and remove defective devices
- Infant mortality failures are often caused by defects introduced during the manufacturing process
- Stress the laser diode crystal structure using higher than normal operating current and operating temperature
- Solution Typical soak temperature ranges from 85° C to 150° C and typical current ranges are 50-150% of the normal operating current



When is burn-in & life test done?



- OC format is the earliest step between wafer and package
- S wafer level probing challenges remain



Questions?