

HIGH-RELIABILITY

Screened, Hi-Rel Versions of Standard Products:

Full product traceability is maintained

- Full assembly and material traceability by kit code
- Restricted material usage to one lot (die wafer lot, mold epoxy etc.) per kit
- All records maintained for a minimum of seven years

Performance advantages of screened, Hi-Rel parts include:

- Guaranteed operation up to 105°C *
- Guaranteed operation at -40°C *
- Full parametric testing at room temperature and 85°C
- Extremely low PPM failure rates

* Please check with the factory for requests for lower or higher temperature operation.

Standard reliability tests performed on every kit of product:

- 100% burn-in (HTRB) 48 hours minimum
(According to JESD22-A108 or MIL-STD-883 Method 1015)
- 100% Post burn-in electrical tests at room temperature and 85°C
- Thermal cycle (by sample or 100% for 20 cycles)
MIL-STD-883 Method 1010 condition B or JESD22-A104
- Percent defective allowance limitations

Additional Services Offered:

- 100% parametric datalog
- Thermal shock sample testing (MIL-STD-883 Method 1011)
- Reliability reports (by part type / package type)
- Can provide complete test report for the requirements of automotive AEC-Q101-004
- Other reliability tests by specific request

Contact us at hi-rel@ixysic.com or your local [Sales Representative](#) for additional information about our High Reliability products and services.