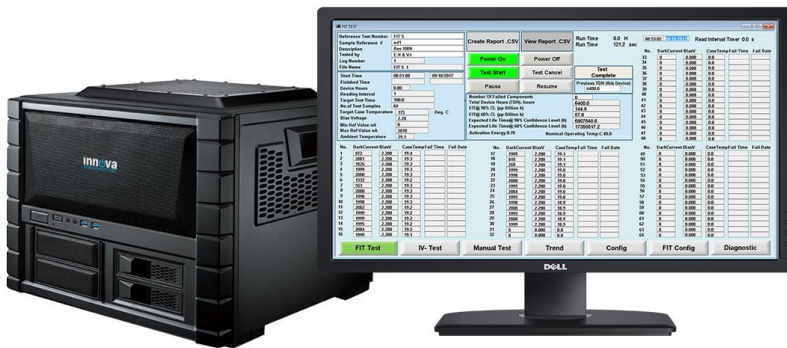


Product Reliability Tester (PRT-LASER-HP-5) Laser Diode Reliability & Burn-In Test System



The custom Product Reliability Tester (PRT) is an Automated Test Equipment (ATE) system that provides a low cost, high performance, accelerated aging, burn-in, and qualification testing for laser diodes. The PRT uses precise control allowing the user to test up to 1024 laser diodes with various environmental chambers.

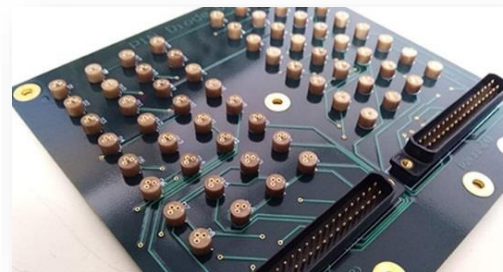
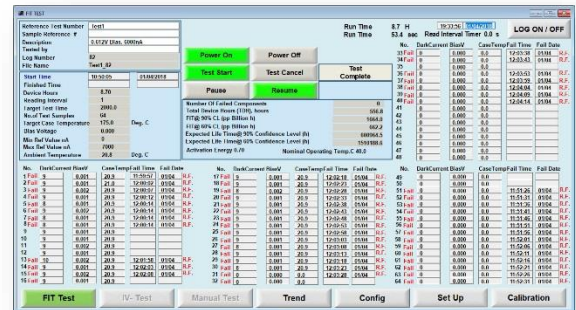
Affordable & High Performance

Powerful Software Interface

- An easy to use GUI provides real-time testing and functional reports
- Multiple test scenarios (recipes) are easily configured without complicated programming.
- FIT (Failure in Time) & Mean Time to Failure (MTTF) calculation
- LIV Curve, Threshold Current, Operating Current, Forward Voltage, Monitoring Current and Data Collection
- Designed for use by Operators & Supervisors
- E-mail notification

Custom Interface Design

- Custom laser diode test fixture boards are built to meet your packaging & test specification
- Custom PRT system input and output interface board connections
- Custom interface control with third party environmental chambers
- Designed to operate up to 200°C



Technical Data

Reliability Test	FIT (Failure In Time), MTTF (Mean Time to Failure)
Measured Quantities	LIV Curve, Threshold Current, Operating Current, Forward Voltage, Monitoring Current, Vmax, Imax, Imin
Number Test Components	64 - 1024
Current Range	1mA – 5,000 mA
Current Accuracy	0.1% of Full Scale
Source Measure Board	Custom Interface Test Fixture
Current Sweep	0.1 mA to 200 mA (200 steps)
Maximum Current	5,000 mA
Default Current	
Measurement Resolution	Analog to Digital 13-bit
Scan Time	2 to 6 seconds per component
Input Voltage	110V -240V AC
Power Consumption	220 Watts
System Dimensions (mm)	L-515 x W-477 x H-395 (size based on 64 component testing)
Material	Aluminum/Steel

Essential Features

- **Conforms to Test Standards**
Telcordia (Bellcore) GR-468-CORE
MIL-STD-883E, Test Method 1016
- **Types of Testing**
Accelerated aging, burn-in, and qualification testing
- **Designed to Work with All Third-Party Environmental Test Chambers**
HAST, HTOL, Autoclave, Temperature & Humidity, Bias Test
- **Power Monitoring & UPS Backup**
Power Failure mode ensures data integrity even through power blackouts
- **Laser Diode Protection**
Custom current high/low limits are set to protect the laser from damage during burn-in or reliability testing

