

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

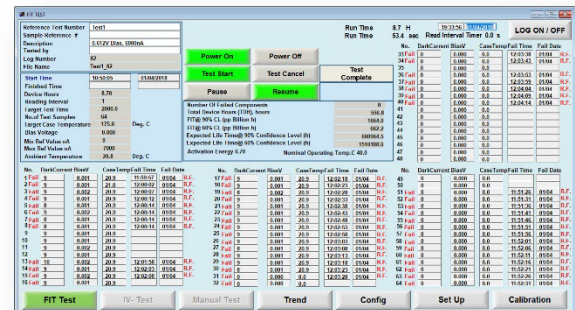


The custom Product Reliability Tester (PRT) is an Automated Test Equipment (ATE) system that provides a low cost, high performance, accelerated aging, burn-in, and qualification testing for laser diodes. The PRT uses precise control allowing the user to test up to 1024 laser diodes with various environmental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

Affordable & High Performance

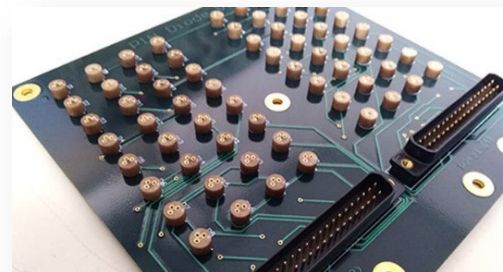
Powerful Software Interface

- 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) Light Intensity, Bias Current, Forward Voltage (LIV), Vmax, Imax, Imin
Measured Quantities	
Number Test Components	64 - 1024
Current Range	1mA – 200 mA
Current Accuracy	0.1% F.S
Source Measure Board	Custom Interface Test Fixture
Current Sweep	0.1 mA to 200 mA (200 steps)
Maximum Current	200 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

Connection Diagram for RPT Station

