

LHX-302-COC Laser Reliability And Aging Test System

Description

Using the LHX-302-COC semiconductor laser life and aging test system can reduce test costs and increase test efficiency. The system contains 40 aging drawers that can be independently heated and loaded to support up to 1280 devices. You can conduct multiple independent tests at the same time to increase production and reduce costs.

The design of LHX-302-COC is very flexible, allowing you to test a variety of different package formats in one system, simply by replacing different aging drawers. The system supports ACC and LIV tests. The typical current is 200mA per channel and can be customized up to 2000mA output.

Reliability Sys software can help you to make testing more efficient. You can easily configure a variety of types of devices and test methods. The software automatically analyzes, saves, and exports test results, provides a variety of error mode processing. It does not require any additional programming by the user, even if the power is down, it will not affect the integrity of the data. Data can also be imported into a csv file and analyzed by other software.



Features

- High density, up to 1280 lasers can be aged at the same time
- Temperature control from 40°C to 150°C
- Current output in drawer units
- Support TO, butterfly, COC and custom package
- Supports probe spacing down to 300µm
- Current range up to 2000mA
- Current mode: ACC, APC (custom), LIV
- Hot swap, easy operation, safe and reliable data management
- Modularized design, easy to expand

Current's long-term stability: $\pm 0.25\text{mA}$

Based on our years of precision control and testing technology for semiconductor lasers, LHX-302-COC provides you with a long-term, stable aging and life cycle testing system to help you to get accurate test results with good repeatability.

Temperature control's long-term stability: ± 2 degree

The system integrates a high-stability temperature control module with long-term temperature stability (> 48 hours) ± 2 degree.

32 devices per drawer for high test reliability

To help our users to get ahead in the high-speed communication laser market, we pay special attention to materials selection and mechanical fixture design to help users to get high-reliability aging systems at a lower cost.

Multi-channel synchronous test to meet the need for flexibility in R&D activities

The LIV-302 test system used with the aging system can perform LIV scan on 32 devices in the drawer at the same time to obtain accurate test data. The repeatability of the threshold calculation can be less than 3%.

Specifications

SYSTEM		
Device Types Supported	COC, TO-Can, Butterfly, Custom	
System Capacity	Up to 1280 pcs	
Devices per Fixture	Up to 32	
Application	Burning,Lifetime testing, LIV testing, lth testing	
Laser Control		
Control Modes	ACC, LIV, Custom	
Laser Drive Current	Range	2 ~ 200mA (up to 2000mA)
	Setpoint Resolution	+ 0.05% of FS
	Setpoint Accuracy	0.5 mA
	Stability	±0.25 mA (>24h)
	Compliance Voltage	3.0V typical; high voltages available upon request
Temperature Control		
Temperature Range	40 - 150°C	
Temperature Control	per fixture	
Temperature Accuracy	± 2°C	
Temperature Uniformity	≤ 2°C within the same fixture	
Temperature Stability	± 2°C (>24h)	
Measurement Functions		
Laser Drive Current	Resolution	0.1mA
	Accuracy	1%RD+0.2%FS
Laser Voltage	Range	0 ~ 5V
	Accuracy	1%RD+0.5%FS
Photodetector	Power Measurement Range	0 ~ 10 (mW)
	Wavelength Monitoring	400 - 1600nm
	Stability	±0.18% of Full Scale
Temperature	Range	15 ~ 200°C
	Resolution	0.1°C
	Accuracy	≤ 2°C (>24h)
Protection Function		
Slow Start, Adjustable Current Limit and Compliance Voltage, Output Shorting Relays,Laser Diode Open Protection, ESD Protection		
General		
Power Requirements	350-420 VAC, 50/60 Hz, three phase	
Size (HxWxD) cm	200*130*90	
System Control Computer and Supervisory Software		
Computer & Display	Industrial Personal Computer, Pentium® Quad Core processor	
Operating System	Microsoft Windows	
System Control Software	Reliability Sys	

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