

RoodMicrotec at a glance



WAFER

FAB

WAFER

TEST

MANAGEMEN'

■ Located in Stuttgart & Nördlingen, Germany.~100 employees

50 years experience as semiconductor supplier and wafer & component test house

- □ Focus on Automotive, Industrial, Datacom, Healthcare & Aerospace
- Covering the complete supply chain for ASICs as well as quality services
- Strong background in datacom qualification from Alcatel history

Accredited acc. to DIN EN ISO/IEC 17025 Certified acc. to DIN EN ISO 9001:2015







FAILURE

ANALYSIS

DESIGN

ASSEMBLY

RoodMicrotec

Partners

Service for VCSELs, laser and photo diodes



- Reliability tests acc. to Telcordia GR-468-CORE, IEC, JEDEC, MIL
 - Dedicated Life-Test / Burn-in system for VCSELs from Yelo
 - □ Temperature Humidity Biased / Biased Damp Heat (THB/BDH) (e.g. 1000h @ 85°C / 85% rh)
 - ☐ High Temperature Reverse Bias (HTRB) for photo diodes (e.g. 2000h @ 175°C)
 - NEW: HTOL & THB system for EML devices
 - Temperature Cycling / Shock
 - ESD tests (HBM, MM, CDM)
 - Die shear & wire bond strength
 - Mechanical shock & vibration

Optoelectronic characterization

- Spectral and power analysis of emitters, LIV curves. Fully automatic batch processing available!
- Responsivity, photo & dark current measurements for photo diodes
- Photobiological safety / eye safety (IEC 62471:2006)
- Laser classification (DIN EN 60825-1:2015-7)







Service for VCSELs, laser and photo diodes

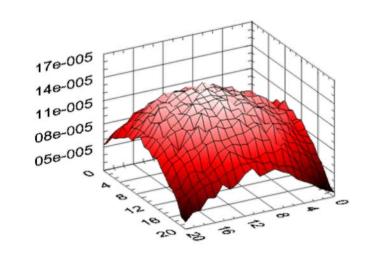


Our speciality: Custom electronics, adaptive holders & intelligent test programs, tailored to the demands of our customers, well-known datacom players!

Examples:

- Self-stabilizing VCSEL current sources for humidity tests and versatile modules for up to 128 VCSELs
- Modification of a Newport Laser Lifetest system with modulator control for EML HTOL
- ☐ Fully-automatic x-y scanning system for LIV & spectral characterization of arrays of emitters





The two EPIC questions



1. What can we do for you?

- We take care of your reliability tests. Either once or in a long-term partnership
- Tailored hardware, intelligent monitoring & automatic read-outs for highest quality data

2. What can you do for us?

- Contact us if you need a partner for reliability testing!
- Developing new test scenarios or devices? Let's collaborate in an industrial or funding project!
- We would like to gain more experience with VCSEL arrays.

