

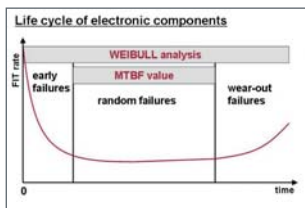
Engineering
 Test/Programming
 Supply Chain Service
 Qualification
 Failure analysis

► **Consultancy**

Know-how and service



Expertise from development to after sales



CONSULTANCY

Reliability engineering

As a leading service provider for quality assurance in electronics and optoelectronics **RoodMicrotec** is a competent business partner in the areas of development, manufacturing processes and in case of system problems. Our experts consult and support you in all relevant areas of quality and reliability.

RoodMicrotec offers broad know-how in the areas:

- Test, qualification and failure analysis for wafers, packages, modules and electronic systems
- Definition of production processes especially in relation to test
- Handling of customer returns and warranties

RoodMicrotec provides fast and reliable solutions and supports you during development, testing and qualification phase up to after sales service.

Reliability from the start

Do you have trust in a newly developed product? Is it possible to keep the forecasted durability of your product?

RoodMicrotec helps you to answer these questions. We evaluate the reliability of new developments and convey the trust in your new products by:

- Performing risk analysis
- Performing analysis on reliability like MTBF and FIT calculation, Weibull statistics
- Check of storage suitability and processability of stored components

Consulting for production processes

Our experts have developed in-depth knowledge in the definition of manufacturing processes across different industries and applications. We offer:

- Evaluation of production processes
- Check of material appropriateness
- Consulting for RoHS- und WEEE-guidelines
- MSL classification (Moisture Sensitivity Level)
- Solder profile development
- Solderability tests
- Qualification and failure analysis on components, PCBs, PBAs and interconnection technology

Test optimization

Components should be testable with high yield. Our service includes:

- Technical support for Design-For-Testability (DFT)
- Definition of technical specifications
- Optimization of test coverage and test time
- Maximizing test yields
- Validation of test processes

Component & material engineering

Support in selecting the optimum key components for new products by:

- Products and process audits
- Supplier audits
- Database definition for components
- PCN management and support during the end-of-life process
- Consulting for eye protection/laser hazard

ESD & ESDFOS Evaluation

(ESDFOS = ESD From Outside to Surface)

- Risk identification of production process and equipment depending on product sensitivity or customer requirements
- Guidance for equipment release
- Equipment certification for suppliers
- Equipment construction & maintenance
- ESD training

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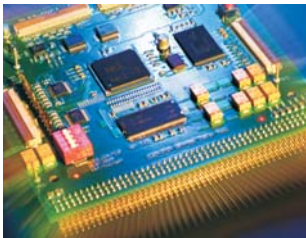
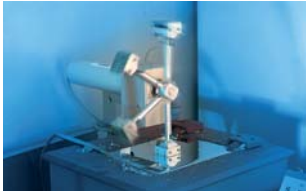
 **Consultancy**

CONSULTANCY

Reliability engineering



Partnership and competence



RoodMicrotec services for:

- Active components like ICs, transistors, diodes and sensors
- Passive components (R, C, I)
- Optoelectronic components like image sensors, LEDs and displays
- Fibre optical components
- Electromechanical devices like relays, engines, PCBs
- Connectors, cables and assembled cables
- PBAs and modules
- Electronic systems and subsystems

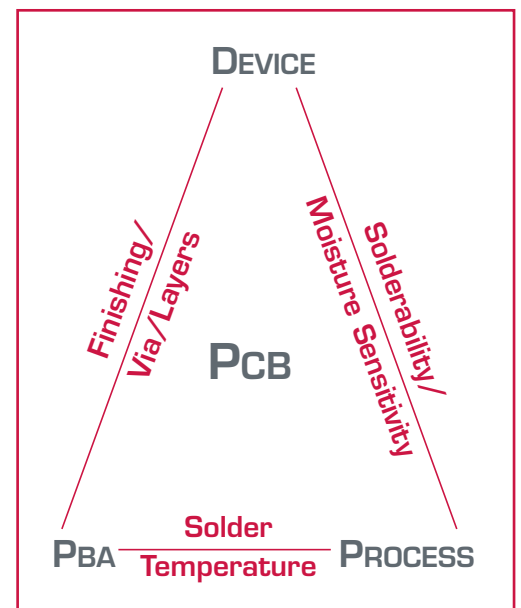
We support you with our expertise in aging mechanisms of electronic components, suitability of storage and optimum storage conditions as well as processability after longtime storage. This helps to ensure long-term supply of your spare parts.

Independent expert's reports and studies

RoodMicrotec examinations are performed according to ISO/IEC 17025. **RoodMicrotec** test labs are accredited by DAR (German accreditation body).

Competence center for single device, PCB, PBA and interconnection technology

RoodMicrotec offers broad know-how and long-time experience in test, qualification and failure analysis of electronics and optoelectronics. Benefit from our know-how of single components up to mounting technology as well as integrated systems.



Competence through experience

DIN EN ISO/IEC 17025
ISO TS 16949
DIN EN ISO 9001
DIN EN ISO 14001

Reliability by quality assurance

Quality is our key competence. Our services are based on professional measurements including process definition and documentation.

RoodMicrotec is an acknowledged service provider in the industry for quality assurance of electronics and optoelectronics.

We stand for certified and independent results in test, qualification and failure analysis and therefore provide reliable technical consulting.

Rely on our experience

RoodMicrotec performed a large number of successful national and international projects and plays an active role in various standardization committees.

Our mission is to provide our customers with one-stop quality service.

Challenge us!

We look forward to your inquiry.

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