Halbleiter-Test & Vertriebs-GmbH

www.testhaus.de



High Performance Center for electronic components









Since 1986, HTV, with more than 220 highly qualified employees, is one of the world's largest providers of services related to electronic components.

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unique

Test services

- Testing of electrical and optical parameters according data sheet (including wafer testing)
- Environmental simulation & qualification
- Mechanical testing, e. g. Pull- & Sheartest
- Individual test program development, e.g. for ASICs
- Fault analyses
- MTBF calculation for determination of the reliability of assemblies, devices and systems
- Test capacity: several hundred thousand parts/day

Long-Term Conservation and Storage

- TAB®-method (Thermal-Absorptive Gas-Barrier) for the conservation and storage of electronic components (components, assemblies, wafers, complete devices) of currently up to 50 years
- Long-Term Storage and Conservation of important documents with HTV-PermaDoc[®]
- Costless storage and purchase of clients' excess stocks with HTV-EverStock[®]

Component processing

- Drying of components
- HTV-PLUS-Vacuum-Drying
- Marking/Removing of original marking
- 3D lead inspection
- Tape & reel service
- Mechanical preparation, e. g. straightening of pins
- Rework of electronic assemblies/Refurbishing
- HTV-revivec[®]: for cleaning and reconditioning



ISO 9001 BUREAU VERITAS Certification

Component programming

- Programming of all components
- Programming even of huge NAND flashes
- Wafer programming
- Self-developed adapters and algorithms
- Programming capacity: >750.000 pcs/day
- HTV-OTP-Alive: Erasing and reprogramming of OTP components



VD-05-109 V7

Institute for material analyses

- Comprehensive analytical services
- In-process quality control
- Examination of errors in processes, circuit boards defects and component failures
- Determination with regards to component manipulation
- Evaluation of bare printed circuit boards and assemblies according to IPC-A-600/610

Methods:

- Light microscopy
- Microsectioning and ion beam etching
- Metallographic examinations/HTV-MetaFinePrep®
- 2D/3D-X-ray tomography (CT)
- Scanning Electron Microscopy (SEM)
- Energy Dispersive X-ray Spectroscopy (EDS/EDX)
- Analysis of layer thicknesses and material via XRF
- FTIR-spectroscopy for analysis of organic substances
- Fully automated solderability tests
- Chemical component decapsulation
- Nanoindentation for determination of the hardness

Further creative services

- HTV-Academy
- HTV-Center of creativity for the development of new business ideas
- HTV-Life[®]-mark of excellence against planned obsolescence

HTV Halbleiter-Test & Vertriebs-GmbH

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