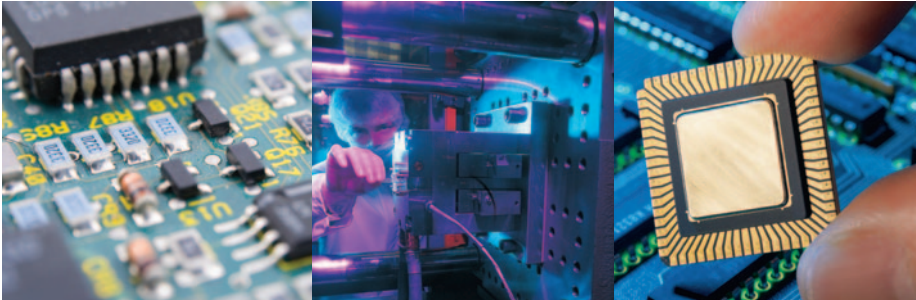
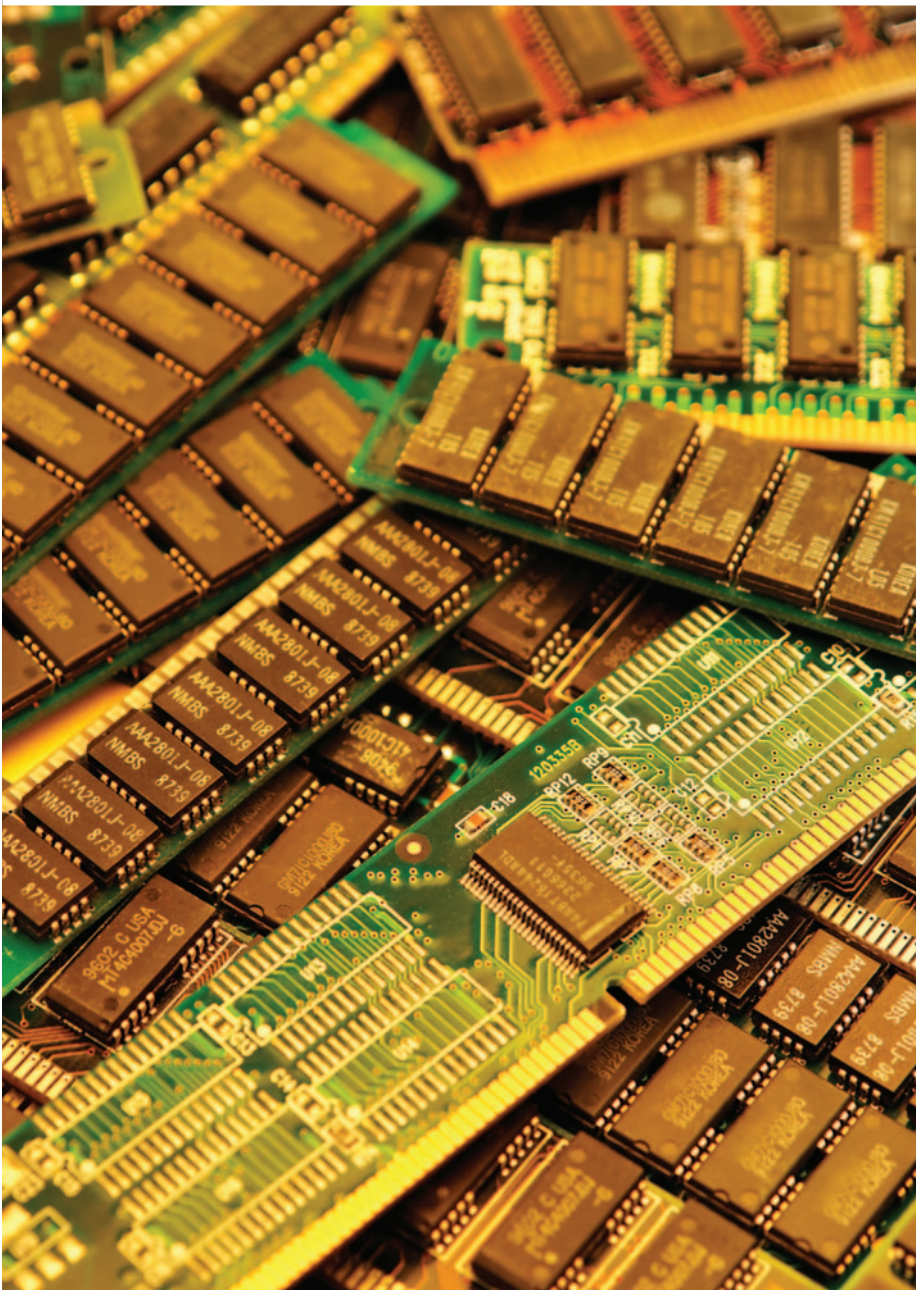


Counterfeit Components Identification



MANUFACTURED
PRODUCTS &
SERVICES



MICROSS OFFERS AN INTELLIGENT SCREENING PROCESS TO ROOT OUT COUNTERFEIT COMPONENTS FROM THE SUPPLY CHAIN. MITIGATE THE RISK OF BUYING GREY MARKET DEVICES BY USING MICROSS' TEST FLOWS.





Counterfeit Components Identification

SCREENING FLOW

The customer may decide on the amount they wish to invest in the counterfeit check process. In some cases a basic check covering only the first few tests from the flow may be acceptable. However, if the component is high value or intended for a critical application the full range of tests may be required.

MARKING PERMANENCE CHECK

Counterfeit parts are often re-marked using inadequate inks/processes. A marking permanence test can identify these parts.

LEAD INSPECT/DIMENSION CHECK

Devices thinned to remove original marking, in an incorrect package, poorly formed or incorrectly plated are identified by this test. Capability includes XRF analysis for metallurgy composition.

ELECTRICAL TEST (KEY PARAMETERS ONLY)

Basic functionality test only as agreed with the customer.

X-RAY INSPECT

Checks die is present, die size/aspect ratio and number of wire bonds.

DE-CAP/DIE INSPECT/CONSTRUCTION ANALYSIS

Destructive test on agreed sample. Detailed investigation of die, die attach and wire bond to check die is correct and is assembled as expected.

ELECTRICAL TEST (FULL PARAMETRIC)

Full parametric test of all key parameters (at temperature extremes if required). Test flow agreed with customer. Test designed to detect counterfeit parts with subtle electrical failure modes.

SEM

Detailed die analysis designed to detect failures earlier tests in flow may not detect.

GROUP D TESTS

Military standard mechanical tests (destructive) on a sample of devices as a final check of construction.

QUALITY

Micross components is an AS9100 approved manufacturing and test facility. Operating with industry standards used in Military, Space, Medical and Industrial markets.

DELIVERY

Several customer information/delivery systems in place including KANBAN. Direct input to customer information/tracking systems, secure online information access.

KEY SERVICES

- Documentation check
- Marking Permanence Test
- Lead/ball inspect
- Dimension check
- Electrical test - Gross (Key parameters only)
- X-Ray inspect
- De Cap
- Die inspection
- Construction analysis
- Electrical test - Fine (Full parametric)
- Die SEM
- Life test
- Group D test

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OUR MANUFACTURED PRODUCTS & SERVICES DIVISION OFFERS A WEALTH OF EXPERTISE IN DESIGN, PROCESSING AND PRODUCTION OF SEMICONDUCTORS, CONNECTORS AND OTHER ELECTRO-MECHANICAL COMPONENTS WITH THE HIGHEST DEGREE OF QUALITY, HI-RELIABILITY AND PERFORMANCE.



For further information visit www.micross.com