

Component Test & Qualification Services

Ensuring COTS Devices Meet the High-Reliability Requirements of Military, Space and Aerospace Applications



With more than 40 years of third-party component testing experience, Tektronix Component Solutions can evaluate a broad range of devices to ensure they meet exacting military, space and commercial aerospace requirements. As a DLA (DSCC)-suitable test lab, Tektronix Component Solutions is able to verify that commercial-off-the-shelf (COTS) parts comply with military, space and commercial aerospace specifications and that they meet your specific performance, assembly and reliability criteria.

Electrical Testing

Tektronix Component Solutions offers electrical testing services for a variety of passive devices, complex semiconductors and integrated circuits, including digital, RF, microwave and mixed-signal devices. Burn-in services are also available to help prevent failure in the early, high-risk stages of a component's life.

Package Integrity

From thermal shock and humidity to Particle Impact Noise Detection (PIND), Tektronix Component Solutions can screen your parts and packages to ensure they will function properly under the most challenging conditions.

Assembly Evaluation

Providing a variety of assembly evaluation services, including Destructive Physical Analysis (DPA) and Prohibited Materials Analysis (PMA), among others, Tektronix Component Solutions can verify that devices are built according to specification and that all materials can withstand the rigorous operating requirements of military, space and commercial aerospace applications.

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PEM Qualification

Tektronix Component Solutions provides qualification services for Plastic Encapsulated Microcircuits (PEMs), devices that have proven to be a viable solution for addressing cost, size, weight and power (C-SWaP) considerations in military, space and industrial applications. Through a variety of testing capabilities, including visual inspection, moisture test, radiation testing, scanning electron microscopy, Highly Accelerated Stress Testing (HAST) and temperature cycling, we can create a test flow appropriate for your application and establish confidence in the operational performance of an entire family of parts. In addition, we qualify all PEM devices by date to ensure any commercially-driven process changes by the manufacturer do not adversely affect expected performance—all to help our customers manage C-SWaP considerations without sacrificing device reliability.

Component Sourcing & Management Services

In addition to offering a broad array of test capabilities for customer furnished material (CFM), Tektronix Component Solutions can assume the complete sourcing and management of your critical components. You get the qualified parts you need, while reducing the cost and risk of supply chain management. In addition to straightforward “buy and screen” services, Tektronix Component Solutions can help with:

- Procurement and buffering
- Materials management
- Tape and reel
- Re-tinning and tin mitigation
- Re-bake of moisture sensitive devices and dry packing

Certifications & Compliance

- ISO 9001:2008
- ITAR-registered
- DLA (DSCC) Lab Suitability
- MIL-STD-750 / 883 / 1580
- MIL-PRF-19500 / 38534 / 38535
- J-STD/JEDEC/EIA
- Source Inspection (DCAS) available

Contact our experienced team to discuss your application and component needs:

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