

Trusted Assembly and Test Services

Fact Sheet

2016

www.aeroflex.com/Trusted



TRUSTED ACCREDITATION

Aeroflex Colorado Springs received Category 1A Trusted Accreditation by the Defense Microelectronics Activity as a Microelectronics Trusted Source for DoD and all other U.S. government users. The scope of accreditation includes:

- Design, Packaging /Assembly, Test and Aggregation/ Brokering of multi-project-wafers into Trusted Foundries.

Aeroflex offers:

- Trusted foundry access with ASIC Design Services for radiation hardened and non-hardened program applications
 - IBM - 90nm
 - ON Semiconductor - 0.6µm
- One stop solution for your integrated assembly, evaluation, test and screening requirements
- Quick-turn capabilities available
- QML Q and QML V flows, MIL-PRF-38535 compliant, ISO-9001 certified
- Element evaluation
- Certified known good die program available
- Value-added services such as radiation testing, secure testing and COTS/commercial upscreening
- Class 100, 5100 sq. ft. Clean Room
- Analytical and DPA services

SPECIALIZED SERVICES

- ❑ Customer Furnished Tooling - Aeroflex has experience in assembling customer originated die, packages, test and screening requirements into a smooth, seamless high quality process.
- ❑ Radiation Testing - Aeroflex RAD offers a comprehensive commercial radiation effects testing based in the US and UK. From Total Ionizing Dose (TID) test to complex Single Events Effects (SEE) tests, complete turnkey services are available. DSCC/DLA suitability for radiation test methods 1019, 1017, 1020, 1021.
- ❑ Secure Testing - Aeroflex has tested parts in a secure environment for classified programs for over 27 years. The facility and employees have the necessary clearances and the proper training.
- ❑ COTS/Commercial Upscreening - Aeroflex's experience in the high-reliability marketplace allows us to

perform additional testing and burn-in to your commercial parts to meet customized military requirements.

- ❑ Space Qualified Assembly Services - Aeroflex is a DLA certified QML V manufacturer of space qualified ICs.

PRODUCTION CAPABILITIES

Aeroflex can provide a complete solution for your integrated assembly, evaluation, test and screening requirements.

- ❑ Assembly
 - Wafer Backgrind
 - Wafer Saw
 - Assembly and Wirebond
 - State-of-the art wirebonding; 60 mil pitch available
 - Hermetic packages available
 - LCC, PGA, QFP, DIP, FP, Multi-chip modules
 - Solder Dip -- Meets MIL-STD-883, Method 2003
 - Mark
 - Custom marking including serialization. Meets MIL-STD-883, Method 2015
 - Internal Visual
 - Meets MIL-STD-883, Method 2010, Cond A or B
- ❑ Burn-In Services
 - Static/Dynamic Burn-in
 - Accelerated Life Test
- ❑ Electrical Test
 - Wafer Level DC Parametrics
 - Memory, Logic and Analog IC Testing
 - Wafer Probe and Package IC Testing
 - High and Low Temperature IC Testing
 - Teradyne Testers with 1024 digital pins and frequencies up to 800 MHz
- ❑ Environmental Test
 - Hermeticity
 - Meets MIL-STD-883, Method 1014, Cond A1, A2, C3
 - PIND
 - Meets MIL-STD-883, Method 2020, Cond A, B
 - Centrifuge
 - Meets MIL-STD-883, Method 2001, Cond A, B, C, D, or E
 - Temp Cycle
 - Meets MIL-STD-883, Method 1010, Cond A, B, C, D or F
 - Mechanical Shock and Variable Vibration
 - Meets MIL-STD-883, Method 2007
- ❑ Failure Analysis diagnostic capability the transistor level.
 - EDS, SEM, E-Beam, DPA

Aeroflex Colorado Springs - Datasheet Definition

Advanced Datasheet - Product In Development

Preliminary Datasheet - Shipping Prototype

Datasheet - Shipping QML & Reduced Hi-Rel

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Our passion for performance is defined by three attributes represented by these three icons: solution-minded, performance-driven and customer-focused