



# Quality You Can Count On

## Our dual AS9120B & ISO 9001:2015 certifications set us apart, way apart.

VRG Components has a 98% quality rating and maintains important dual AS9120B / ISO 9001:2015 certifications to ensure our customers receive only the highest quality authentic electronic components. It's an important distinction that provides an extra measure of reassurance every purchasing professional should demand - especially those in aviation, aerospace, and medical electronics.

We also maintain a comprehensive counterfeit parts avoidance and detection program, and are proud members of GIDEP – the US Department of Defense Government-Industry Data Exchange Program.



## State-of-the-Art Lab

Professionally trained, experienced & certified inspectors

State-of-the-art temperature & humidity controlled ESD compliant inspection lab

Thorough in-house component inspections based on IDEA-STD-1010 & J-STD-033 standards

Detailed general shipping container inspection

Meticulous package contents inspection

SMD chip counter to verify exact component counts

Visual part marking verification to establish conformance to OCM requirements & ensure authenticity

Mechanical inspection of dimensioned features as sanded, blacktopped parts typically do not meet dimensional specifications

Acetone testing to detect blacktopping or resurfacing

Remarking & permanency tests to detect older date codes, slow speed devices, or refurbished components

Further visual inspection using microscopy to detect flaws or inconsistencies on surfaces or leads

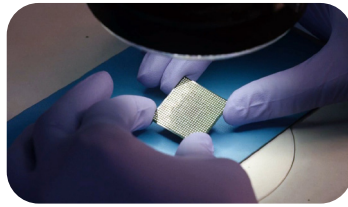
## Comprehensive Component Testing

'When you need more comprehensive testing VRG can accommodate any number of more detailed component tests based on your individual needs.

We have chosen to work with only the very best. Our preferred test house is the most dependable US-based, fully certified laboratory available.

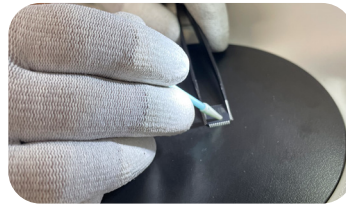
We will handle all of the details for you. Just let us know your specific testing requirements.'

**Michael Robertson**  
VRG Components  
Quality Assurance  
Manager



### Counterfeit Mitigation

- Packaging Inspection
- External Visual Inspection
- Scanning Electron Microscope
- Decap Internal Analysis
- Solderability
- X-Ray Inspection
- X-Ray Spectroscopy



### Remarking & Resurfacing Analysis

- Acetone Swab Test
- Heated Chemical Test Using Dynasolve 715/750
- Heated Chemical Testing Using 1-Methyl 2-Pyrrolidinone
- Marking Permanency



### Electrical Testing

- AC/DC Parameters
- Passive Component Tests
- DDR/DRAM Testing
- Pin Correlation
- Functional Testing
- Programming
- JTAG & Boundry Scan
- Speed Verification
- Upscreening



### Mechanical Testing

- Particle Impact Noise Detection (PIND)
- Terminal Strength Testing
- IPC 610 Board Inspection
- IPC 620 Wire & Cable Inspection



### Environmental Testing

- Burn In/HOTL
- Highly Accelerated Stress Test (HAST)
- Humidity & Bias (THB)
- Thermal Shock



### Industry Testing Standards

- MIL-STD-202
- MIL-STD-750
- MIL-STD-883
- MIL-PRF-55342
- AS6081
- AS6171

## TEST HOUSE CERTIFICATIONS

ESD 20.20 | IPC-A-610 | IPC-A-620 | ISO 9001:2015 | AS6081 | ISO/IEC 17021-1



### Contact Us:

A: 3056 Eaton Avenue  
Indian Trail, NC 28079 USA  
P: 1 980 244 3862 or +49 (0) 5221 9719 077  
E: info@vrgcomponents.com

vrgcomponents.com




  
 @vrgcomponents