

**QINETIQ**

**LABORATORY SUITABILITY CERTIFICATION**

**Date Of Issue**  
OCTOBER 1989

**Date Of Expiry**  
OCTOBER 2011



**Certificate Number**  
QINETIQ/LS/009/002

**Issue Number**  
TWELVE

**QinetiQ Reference**  
BCC/06/003/009/002

**LABORATORY SUITABILITY CERTIFICATE**

to

**MIL-STD-202 (MIL-PRF-55310)**

This Certificate is issued by QinetiQ, in confirmation of the Independent Test Laboratory satisfying the requirements of the identified specification. It is issued by QinetiQ subject to the conditions specified by the relevant standards or specifications and is subject to withdrawal at the discretion of the qualification approval authority acting for the Defense Supply Center Columbus.

***Laboratory's name and registered address***

C-MAC MICROTECHNOLOGY  
SOUTH DENES, GREAT YARMOUTH, NORFOLK NR30 3PX

***Specification against which approval is granted***

MIL-STD-202, MIL-PRF-55310

***Test report date***

OCTOBER 2008

***Scope of Approval***

INDEPENDENT LABORATORY SUITABILITY FOR TESTING PERFORMED IN ACCORDANCE  
WITH MIL-PRF-55310 AND MIL-STD-202

**QinetiQ**

Approved by

QinetiQ/EE&S/BCC

QinetiQ, Fort Halstead, Sevenoaks, Kent TN14 7BP

**Statement of Independent Laboratory Suitability Status MIL-PRF-55310**

Mr. D. Bridge – Head of Test House  
 C-MAC MicroTechnology  
 South Denes  
 Great Yarmouth  
 Norfolk NR30 3PX

Dear Mr Bridge,

As a result of maintained compliance to the requirements of the standards and specification referenced in the scope, your South Denes facility is considered suitably equipped to perform testing in accordance with the MIL-PRF-55310 and MIL-STD-202 test methods identified in the following tables:-

MIL-STD-202		
TEST	METHOD	CONDITION
Vibration	204D	AA - CC A, B, C, F A - D, F
Shock	213B	
Thermal Shock	107G	
Ambient Pressure	105C	
Resistance to Soldering Heat	210C	
Moisture Resistance	106F	
Salt Spray	101D	
Terminal Strength	211A	A, B, C
Solderability	208G	

MIL-PRF-55310		
TEST	METHOD	CONDITION
Storage Temperature	4.8.47	
Ambient Pressure (non operating)	4.8.46.1	

The identified facilities may be used to perform tests on military devices / components being qualified in accordance with other specifications invoking these test methods. The use of your laboratory for performing testing is subject to conditions as stated in DoD 4120.3M and SD-6.

Any changes, modifications, or replacement of equipment covered by this suitability authorization shall be reported to QinetiQ immediately who will monitor the US Department of Defense Conditions.

This letter of suitability is issued by QinetiQ under the delegated authority of the United States Military Qualifying Activity and is valid until terminated by written notification from the issuing authority.

The normal period of suitability is two years and if warranted, may be withdrawn by the Qualifying Activity at any time. Your laboratory may be re-audited on a 'drop-in' basis at any time, as well as routine surveillance as deemed necessary by QinetiQ or the equivalent US authorities.

Maintenance of this suitability status prohibit your company from removing or altering the device markings. Any device which fails testing conditions shall be identified as a reject and returned to the device manufacturer for verification of failure mode, or the device(s) shall be destroyed with the manufacturer's approval, under surveillance of QinetiQ, the Quality Assurance representative.

Electrostatic discharge sensitivity (ESDS) requirements for MIL-PRF-55310 devices will be handled as ESD sensitive (Category A) unless otherwise notified by the device manufacturer. Consequently all processing procedures will incorporate the handling, testing and packaging requirements according to the guidelines in DoD-HDBK-263 and JEDEC Publication 108.

### Maintenance Requirements

To maintain Laboratory Suitability Status for the above listed test methods, you are required to compile a summary of all MIL-PRF-55310 devices class B tested to the requirements of MIL-STD-202, every 12 months and your self audit test results.

The report shall include the following:

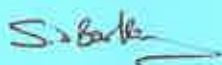
#### Summary of testing:

- a. Part number
- b. Date code
- c. Quantity tested
- d. Date test completed
- e. Device manufacturer
- f. Manufacturing lot number
- g. Qualification test report number (if applicable)

Together with a completed self audit checklist and any corrective action(s) required if appropriate.

The summary shall be co-ordinated with your Quality Assurance Representative and be submitted to QinetiQ, no later than 31 October. If no summary is received by that date, it will be concluded that no MIL-PRF-55310 device testing was performed, consequently your laboratory suitability may be cancelled.

The maintenance requirements applicable to this laboratory suitability will be subject to a periodic review and audit by either QinetiQ or United States Authority (Defense Supply Center Columbus) in accordance with the requirements of MIL-PRF-55310. Approval will not normally be extended beyond a two year period without a reaudit. Monitoring of the facility between audits will be accomplished by QinetiQ.



S.D. Barker  
BCC Qualification Approvals Manager