



DEFENSE LOGISTICS AGENCY
LAND AND MARITIME
POST OFFICE BOX 3990
COLUMBUS, OH 43218-3990

March 5, 2020

Jerry Chang
Silicon Turnkey Solutions
General Manager
1804 McCarthy Blvd
Milpitas, CA 95035

Dear Mr. Chang:

Re: Q and V Level Assembly and Test Certification; MIL-PRF-38535; FSC 5962; VQC-20-034740; Grammens, CN: 071092

STS has demonstrated to the DLA Land and Maritime that it complies with MIL-PRF-38535, the performance specification used by the Department of Defense for monolithic integrated circuits.

STS is granted Q and V Level Assembly and Test Certification for the process flows and materials used to assemble and test QML products for the quality assurance levels defined in the STS QM plan QM-003 Rev K. This assembly and test certification listing includes subcontractors approved by STS and as documented in the Quality Management Plan.

Testing must be performed using the facilities and methods listed in the Laboratory Suitability letter DLA Land and Maritime- VQC-20-034741, or at facilities approved by STS Technical Review Board (TRB) using its MIL-PRF-38535 Quality Management Program Plan.

This certification is subject to the conditions in DoD 4120.24-M, Defense Standardization Program and SD-6.

All of the facilities mentioned on the enclosure are subject to an audit by the DLA Land and Maritime Qualifying Activity at any time.

STS shall notify the DLA Land and Maritime Qualifying Activity immediately after learning of a potential issuance of a GIDEP alert, problem advisory or major quality/reliability problem on their assembly and test processes. Failure to provide prior notification may be grounds for removal of their MIL-PRF-38535, Q and V Assembly and Test certification.

In addition, it is requested that the following activities be reported promptly to DLA Land and Maritime:

- Changes to certified facilities, process flows, or approved testing subcontractors.
- Problem evaluation and a corrective action when:
 - A Technology Conformance Inspection (TCI) failure has been validated
 - The reliability of shipped parts is questionable.
- Test optimization, including:
 - Implementation - paragraph J.3.12, Appendix J, MIL-PRF-38535
 - Changing, suspending or canceling a prior test optimization
- Change of company QML contact or other key QML personnel
- Changes in test methods and conditions

This Assembly and Test certification is valid until terminated by written notice from the DLA Land and Maritime Qualifying Activity. If warranted, it may be withdrawn by this center at any time.

If you have any questions please contact Mr. Michael Grammens at (614) 692-0604.

Sincerely,

ROBERT M HEBER
Chief
Sourcing and Qualifications Division

ENCLOSURE

<u>OPERATION</u>	<u>FACILITY</u>	<u>LOCATION</u>	<u>CAPABILITY</u>
Assembly	STS	1804 McCarthy Blvd	<p>Hermetic Single Die Q process flow Rev 01</p> <p>Hermetic MCM Q process flow Rev 01</p> <p>Hermetic Single Die QML V process flow Rev 01</p> <p>Hermetic MCM QML-V process flow Rev 01</p>
Backgrind	GDSI	925 Berreyessa Rd San Jose, California	CT-72071
Die Attach Material	STS	1804 McCarthy Blvd Milpitas, Ca	<p>JMI 7000 Silver Cyanate Ester 2025D Non-Conductive Hybrid Chemistry 84-1 LMINB 5011 Conductive Epoxy 84-1 LMISR4 5011 Conductive Epoxy 84-3 5011 Non-Conductive Epoxy</p>
Wire Type and Wire Size	STS	1804 McCarthy Blvd Milpitas, Ca	<p>Gold Wire : 0.7 mils – 1.5 mils Aluminum Wire: 0.7 mils – 1.5 mils</p>
Lead Finish	STS	1804 McCarthy Blvd Milpitas, Ca	Gold, Solder
Package	STS	1804 McCarthy Blvd Milpitas, Ca	<p>Flat pack Lead Range 40 – 352 Lead Finish: Gold Lead Pitch 25-200 mil</p>
Sealing	STS	1804 McCarthy Blvd Milpitas, Ca	Seam Weld
Screening / Environmental Testing	STS	1804 McCarthy Blvd Milpitas, Ca	Laboratory Suitability VQC-20-034741