



MIL-PRF-38535
CUSTOM MICROCIRCUIT CERTIFICATION

FOR
CLASSES Q & V

IS HEREBY AWARDED TO

DPA COMPONENTS INTERNATIONAL
2251 Ward Avenue
Simi Valley, CA 93065

ALL ASSEMBLY AND TEST SHALL BE IN ACCORDANCE WITH MIL-PRF-38535. THIS CERTIFICATION
IS ISSUED IN CONJUNCTION WITH DSCC LETTER VQ (VQC-07-012407) AND IS VALID
UNTIL TERMINATED BY WRITTEN NOTIFICATION FROM DSCC.

C. M. LILLI
RDML, SC, USN
Commander
DEFENSE SUPPLY CENTER, COLUMBUS



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

March 23, 2017

Douglas Young
President
DPA Components International
2251 Ward Avenue
Simi Valley, CA 93065

Dear Mr. Young:

Re: Laboratory Suitability for MIL-PRF-38535 and MIL-STD-883; FSC 5962; VQC-17-031221; CN: 055322.

DPA Components International has demonstrated to the DLA Land and Maritime compliance with MIL-PRF-38535 and MIL-STD-883. DPA Components International is granted Laboratory Suitability for the facilities, test methods and conditions shown on the enclosure. This Laboratory Suitability supersedes the previous Laboratory Suitability, DSCC-VQC-09-017941. This Laboratory Suitability also covers the DPA Components International Commercial Laboratory Suitability. All testing must be performed in accordance with MIL-PRF-38535 and MIL-STD-883 test methods.

To maintain the Laboratory Suitability for Commercial Lab, you are required to compile a summary report (Retention Report) of all devices tested to the requirements of MIL-PRF-38535 and MIL-STD-883, as follows:

1. Parts marked with the "QML", "Q", or "QD" certification mark (QML-38535 parts)
2. Parts marked with "C" or "D" certification mark (MIL-PRF-38535, appendix A, 883 compliant parts)

This summary report (Retention Report) is to be submitted to the DLA Land and Maritime Qualifying Activity every twelve months. The standard retention reporting period is from 01 Jan through 31 Dec. Your report is then due by 01 March the following year, and shall include the following:

1. Retention Report
 - a. Military Part Number
 - b. Vendor Part Number
 - c. Manufacturer/ Customer
 - d. Lot Date Code
 - e. Test Method(s) and Specified Conditions
 - f. Date Test Completed
 - g. Quantity Tested
 - h. Quantity Accepted and Rejected When Evaluating Acceptability
2. Summary of Internal Audit Results

3. Master List of Controlled Documents, Including Revision Information

This Laboratory Suitability is subject to the policies, procedures, and conditions of the Defense Standardization Program, as published in the manual DoD 4120.24-M, SD-6, and the DLA Land and Maritime-VQ Laboratory Suitability Booklet.

DPA Components International 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 the QPL, QML, and 883 compliant products utilizing test methods and conditions listed on the enclosure. Failure to provide notification to the DLA Land and Maritime Qualifying Activity may be grounds for removal from the Commercial Laboratory Suitability Listing.

This Laboratory Suitability is valid until terminated by written notice from the DLA Land and Maritime Qualifying Activity. If warranted, it may be withdrawn by the DLA Land and Maritime Qualifying Activity at any time. All of these facilities are subject to an audit by DLA Land and Maritime Qualifying Activity with a minimum notice.

If you have any questions, please contact Mr. Jonathan Puhalsky at (614) 692-2458.

Sincerely,

MICHAEL S. ADAMS
Chief
Custom Devices Branch

Visit us on the web at: https://landandmaritimeapps.dla.mil/Offices/Sourcing_and_Qualification/

Enclosure to DLA Land and Maritime-VQ (VQC-17-031221)

<u>TEST</u>	<u>METHOD/CONDITION</u>	<u>Performed at DPACI</u>	<u>Other Labs (subcontractors)</u>
Insulation Resistance	1003 A,B,C,D,E,F	X	
Moisture Resistance	1004	X	
Steady State Life Test	1005 A,B,C,D,E	X	
Stabilization Bake	1008 A,B,C,D,E,F	X	
Salt Atmosphere	1009 A	X	
Temperature Cycling	1010 A,B,C	X	
Thermal Shock	1011 A,B,C	X	
Seal	1014 A ₁ ,A ₂ ,C ₁	X	
Burn-in	1015 A,B,C,D,E	X	
Internal Water Vapor Content	1018		Seal Laboratories Onedia Research Services Inc.
Ionizing Radiation (Total Dose)	1019 A, D		J.L. Shepherd J.D. Instruments LCC
Constant Acceleration	2001 A,B,C,D,E (Y1 orientation only)	X	
Mechanical Shock	2002 A,B,C,D	X	
Solderability	2003 A,*B,*C	X	*Six Sigma
Lead Integrity	2004 A,A ₁ ,B ₁ ,B ₂ ,C ₁ ,C ₂ ,D,E	X	
Vibration, Variable Frequency	2007 A	X	
External Visual	2009	X	
Internal Visual	2010 A,B	X	
Bond Strength	2011 D,F	X	
Radiography	2012 (Digital)	X	
Internal Visual for DPA	2013	X	
Internal Visual & Mechanical	2014	X	
Resistance to Solvents	2015	X	
Physical Dimensions	2016	X	
SEM	2018	X	
Die Shear Strength	2019	X	
Particle Impact Noise Detection (PIND)	2020 A,B	X	
Glassivation Layer	2021 Procedure B	X	

Nondestructive Bond Pull	2023	X	
Lid Torque	2024	X	
Adhesion of Lead Finish	2025	X	
Substrate Attach Strength	2027	X	
Pin Grid Destructive Lead Pull	2028	X	
Ultrasonic Inspection of Die Attach (C-SAM)	2030	X	
Resistance to Soldering Heat	2036 A,B,C,D,I,J,K	X	
XRF	2037	X	
ESDS Classification	3015	X	
IC Latch-Up Test	3023 (JESD78)	X	
Electrical Test	Note 1	X	
Highly Accelerated Temperature and Humidity Stress Test (HAST) with bias	JESD22-A110	X	
Accelerated Moisture Resistance - Unbiased HAST	JESD22-A118	X	
Hot Solder Dip	Customer Defined	X	
QTSL	QTSL-5961/5962 § 3.1.3	X	

Subcontractor Information

1. **E.A.G. Laboratories Inc.**
250 N. Nash St., El Segundo, CA 90245
2. **J.D. Instruments LLC**
14800 Central Ave SE, Albuquerque, NM 87123
3. **J.L. Shepard and Associates**
1010 Arroyo St. San Fernando, CA 91340
4. **Oneida Research Services Inc.**
8282 Halsey Rd., Whitesboro, NY 13492
5. **Six Sigma**
905 Milpitas Expwy., Milpitas, CA 95035

Note 1: LABORATORY's electrical test systems are certified in compliance with MIL-STD-883 paragraph 4.5 as applicable. LABORATORY's system is suitable to perform electrical test over military case temperature (Tcase) of 25°, 125°, and -55° C. Electrical Test suitability does not cover individual test programs. It is the responsibility of the commercial lab to obtain a record of customer approval stating that the hardware/software integration, including resolution and accuracy are adequate to meet the forcing and measurement conditions required, for the specified device type.