



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

November 13, 2013

Mr. Mark McNulla
 Aeroflex-Metelics
 9 Hampshire Street
 Lawrence, MA 01840

Dear Mr. McNulla:

Re: VQ (VQE-14-027284); Group D Test Data Approval, MIL-PRF-19500P, FSC 5961;
 CAGE Code: 52GC4; Control Number: 041150

Qualification of your product is granted based on successful radiation testing of device type JANS2N2222A to Performance Specification MIL-PRF-19500P, Semiconductor Devices, FSC 5961 and performance specification sheet /255, revision Y. Qualification is extended to the device types listed below as allowed by paragraph E.4.2.2 of MIL-PRF-19500. Therefore, your products will be listed as shown below in the Qualified Manufacturers List (QML) 19500. The effective date of this qualification is November 13, 2013.

The qualification lot Thermal Impedance conditions and upper limits are as follows (subject to change after 5 lots with approval from qualifying activity):

Thermal Conditions (subject to change after 5 lots with approval from the qualifying activity)						
Package	I _M	I _H	t _H	t _{MD}	Z _{ΘJX} (Screening)	Z _{ΘJX} (QCI)
TO-5/TO-39	10 mA	200mA	25 ms	70 μs	40.0 °C/W max	45.0 °C/W max

Government Designation	ESD Class	Manufacturer Designation	Test Report Reference	Prf Spec	Manufacturer Name & Address
§R 2N2222A; AL; AUB; AUA JANHCDR2N2221A JANHCDR2N2222A JANKCDR2N2221A JANKCDR2N2222A	6/ 3A	CHRC	19500-3640-12	/255	Same as above
§R 2N2221A; AL; AUB; AUA					
§R 2N2218;A; AL; §R 2N2219;A; AL	3A			/251	

Plant 4: Texas Instruments Inc.
 6412 U.S. Highway 75 South
 Sherman, Texas 75090
 (Wafer Fabrication)

JANHC – Includes JANHC quality level only
 JANKC – Includes JANKC quality level only
 6/ Testing is compliant to the latest revision of MIL-STD-750,
 Test Method 1020.3
 § Includes JANS quality level only

This qualification approval is based upon the test report number listed above, test report 19500-3640-12 and your Group D radiation test data of October 1, 2013. Test report number 19500-4045-14 has been assigned to this data, but will not be reflected in the QML. This qualification is subject to the conditions as stated in the SD-6 and DOD 4120.24M.

Because we are held responsible for the accuracy and currency of this Qualified Manufacturers List, please let us know if your company discontinues production of these products. Also, manufacturers are required to inform this office immediately after learning of a potential issuance of a GIDEP alert, problem advisory, or other problem notification on their QML product.

If you have any questions concerning this letter, please contact Mr. Alan Barone (614) 692-0510.

Sincerely,

/SIGNED/

JOSEPH GEMPERLINE
Chief
Sourcing and Qualifications Division