



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

May 14, 2014

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

Dear Mr. McNulla:

Re: Notification of Qualification, MIL-PRF-19500P, FSC 5961; VQ (VQE-14-028012)  
 CAGE Code: 52GC4; Control Number: 042639

Qualification of your product is granted under the current issue of the specification as a result of successful testing of device type JANTXV2N3868 and JANSR2N3868 as allowed by paragraph E.4.1 of Performance Specification MIL-PRF-19500P, Semiconductor Devices, FSC 5961, and performance specification /350, revision L. Extension is granted to the other devices listed below as allowed by paragraph E.4.2.2 (Qualification by extension). Therefore, your products will be listed as shown below in the Qualified Manufacturers List (QML) 19500. The beginning lot date codes for this qualification are B1301 and B1303. The effective date of this qualification is May 14, 2014.

Thermal Conditions (subject to change after 5 lots with approval from the qualifying activity)						
Package	I <sub>M</sub>	I <sub>H</sub>	t <sub>H</sub>	t <sub>MD</sub>	Z <sub>θJX</sub> (Screening)	Z <sub>θJX</sub> (QCI)
TO-05/39	10 mA	0.65 mA	100 ms	70 μs	14.0 °C/W max	15.0 °C/W max

Government Designation	ESD Class	Manufacturer Designation	Test Report Reference	Prf Spec	Manufacturer Name & Address
** 2N3867, S ** 2N3868, S § 2N3867, S § 2N3868, S § R2N3867, S § R2N3868, S	NS	CHRC	19500-4178-14	/350	Same as above

Plant 3: Bourns Ltd.  
 Manton Lane, MK41BJ  
 Bedford, UK  
 (Wafer Fabrication)

6/ Testing is compliant to the latest revision of MIL-STD-750, Test Method 1020.4  
 § Includes JANS quality levels only  
 \*\* Includes JAN, JANTX & JANTXV quality levels only

This qualification approval is based upon test report number 19500-4178-14 for your die and package, for JANTXV and JANSR, and E data, and your letter dated April 1, 2014 requesting qualification, and subsequent emails. 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, please contact Mr. Barone at 614-692-0510.

Sincerely,

/SIGNED/

JOSEPH GEMPERLINE  
 Chief  
 Sourcing and Qualifications Division