



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

October 21, 2013

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

Dear Mr. McNulla:

Re: Notification of Qualification Extension, MIL-PRF-19500P, FSC 5961, VQ (VQE-14-027169),
 CAGE Code: 52GC4; Control Number: 041014

Qualification by extension of your product is granted under the current issue of the specification as a result of successful testing of device types JANS2N3421 as allowed by paragraph E 4.1 of Performance Specification MIL-PRF-19500P, Semiconductor Devices, FSC 5961, and performance specification /393, 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 effective date of this qualification is October 17, 2013. The beginning lot date code is B1252.

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

Package	I _M	I _H	t _H	t _{MD}	Z _{ΘJX} (Screening)	Z _{ΘJX} (QCI)
TO-66	10 mA	0.75 A	100 ms	100 μs	4.5 °C/W max	6.0 °C/W max
TO-5, TO-39	10 mA	0.75 A	100 ms	100 μs	9.0 °C/W max	9.0 °C/W max

Government Designation	ESD Class 6/	Manufacturer Designation	Test Report References	Prf Spec	Manufacturer Name & Address
§ 2N3418; S through § 2N3421; S	NS	CHRC	19500-3593-12	/393	Same as above

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

Plant (3): Bourns Ltd.,
 Manton Lane, MK417BJ
 Bedford, UK
 (Wafer Fabrication)

This qualification approval is based upon test report number 19500-3593-12 for your die and package, 19500-4015-13 for your JANS data, your letter dated September 20, 2013 and subsequent emails. Test report 19500-4015-13 was assigned to your JANS data, but will not be reflected in QML-19500. This approval 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. Deslich at 614-692-0593.

Sincerely,

/SIGNED/
 JOSEPH GEMPERLINE
 Chief
 Sourcing and Qualifications Division