



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

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

September 25, 2012

Dear Mr. McNulla:

Re: Notification of Qualification, MIL-PRF-19500P, FSC 5961, VQ (VQE-12-025131)  
 CAGE Code: 52GC4; Control Number: 0037406

Qualification of your product is granted under the current issue of the specification as a result of successful qualification testing of device type JANTX2N3767 as allowed by paragraph E.4.1 of Performance Specification MIL-PRF-19500P, Semiconductor Devices, FSC 5961, and performance specification /518D. 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 Qualified Manufacturers List (QML) 19500. The effective date of this qualification is September 25, 2012. The starting lot date code is B1148.

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

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-66	10 mA	0.75A	100ms	100 μs	4.5 °C/W max	6.0 °C/W max
TO-5, TO-39	10mA	0.75A	100ms	100 μs	7.5 °C/W max	9.0 °C/W max

Government Designation	ESD Class	Manufacturer Designation	Test Report Reference	Prf Spec	Manufacturer Name & Address
** 2N3766 through 2N3767	NS	CHRC	19500-3593-12	/518	Same as above
** 2N3879				/526	
** 2N5681 through 2N5682				/583	
** 2N3418, S through 2N3421, S				/393	
** 2N4237 through 2N4239				/581	

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

\*\* Includes JAN, JANTX & JANTXV quality levels only

This qualification approval is based upon test report number 19500-3593-12 for your die and package, your letter dated June 20, 2012 and subsequent correspondence requesting qualification, and 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