



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

December 17, 2012

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-13-025587)  
 CAGE Code: 52GC4, Control Number: 037791

Qualification of your product is granted under the current issue of the specification as a result of successful testing of device type JANTX2N3741 as allowed by paragraph E.4.1 of Performance Specification MIL-PRF-19500P, Semiconductor Devices, FSC 5961, and performance specification /441Rev K. 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 code for this qualification is B1212. The effective date of this qualification is December 17, 2012.

Thermal Conditions (subject to change after 5 lots with approval from the qualifying activity)							
Package	V <sub>CB</sub>	I <sub>M</sub>	I <sub>E</sub>	t <sub>H</sub>	t <sub>MD</sub>	Z <sub>θJX</sub> (Screening)	Z <sub>θJX</sub> (QCI)
TO-66/TO-39	10 V	10 mA	1.4 A	100 ms	70 μs	4.0 °C/W max	5.0 °C/W max

Government Designation	ESD Class	Manufacturer Designation	Test Report Reference	Prf Spec	Manufacturer Name & Address
** 2N3740 through 2N3741	NS	CHRC	19500-3714-13	/441	Same as above
** 2N4234 through 2N4236				/580	
** 2N5679 through 2N5680				/582	
				Plant 3:	Bourns Ltd
					Manton Lane, MK41BJ
					Bedford, United Kingdom
					(Wafer Fabrication)
** Includes JAN, JANTX & JANTXV quality levels only					

This qualification approval is based upon test report number 19500-3714-13 for your die and package and your letter dated November 6, 2012 requesting qualification. 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