



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

December 19, 2012

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-13-025470); CAGE Code: 52GC4; Control #: 037824

Qualification by extension of your products are granted under the current issue of the specification as a result of successful testing of devices type JANS1N6642 and JANS2N2222AUB as allowed by paragraph E.4.1. (Qualification inspection) of Performance Specification MIL-PRF-19500P, Semiconductor Devices, FSC 5961, and performance specifications /578, Rev L and /255, Rev X. 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 A1245. The effective date of this qualification is November 27, 2012.

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)
UB*	10 mA	1A	10 msec	70 μs	50.0 °C/W max	55.0 °C/W max

Government Designation	ESD Class	Manufacturer Designation	Test Report Reference	Prf. Spec	Manufacturer Name & Address
** 1N6642UB;UB2;UB2R; UBCA; UBD; UBCC	3B	CHRC	19500-3667-12	/578	Same as above
§ 1N6642UB;UB2;UB2R UBCA; UBD; UBCC					
** 1N4148UB; UBCA;UBCC;				/116	
UBCCC;UBD;UBCD;UB2;UB2R					
** 1N4150UB; UBCA;UBCC;UBD				/231	
** 1N4454UB; UBCA;UBCC;UBD				/144	
** Includes JAN, JANTX, & JANTXV quality levels only					Plant (2): Aeroflex-Metelics East 55 Grenier Field Road Londonderry, NH 03053
§ Includes JANS quality level only					(wafer fabrication)

This qualification approval is based upon test report numbers 19500-3711-13 for your die, and 19500-3667-12 for your package, and your letter dated November 19, 2012. Test report 19500-3718-13 has been assigned to your test data but will not be reflected in the QML listing. This approval is subject to the conditions stated in 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 on this letter, contact Mr. DelloStritto at 614-692-0616.

Sincerely,

/SIGNED/

JOSEPH GEMPERLINE  
 Chief  
 Sourcing and Qualifications Division