



**DEFENSE LOGISTICS AGENCY**  
 LAND AND MARITIME  
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IN REPLY REFER TO DLA LAND AND MARITIME-VQ (VQE-11-021510/Mr. Alan Barone/614-692-0510) November 23, 2010

SUBJECT: Notification of Qualification, MIL-PRF-19500N, FSC 5961

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

Dear Mr. McNulla:

Qualification of your products is granted under the current issue of the specification as a result of successful testing of device type JANS1N829-1 to Performance Specification MIL-PRF-19500N, Semiconductor Devices, FSC 5961, and performance specification /159. Extension is granted to the other devices listed below as allowed by paragraph E.4.2.2 (Qualification by extension). In addition, extension for the UR package is granted by test report numbers 19500-2690-10 and 19500-2830-10. Therefore, your products will be listed as shown below in the Qualified Manufacturers List (QML) 19500. The effective date of this qualification is November 23, 2011. The beginning lot date code for this qualification is A0933. Thermal Impedance conditions and limits are not applicable for TC zeners.

Government Designation	ESD Class	Manufacturer Designation	Test Report Reference	Prf. Spec	Manufacturer Name & Address
§ 1N821-1, UR-1	NS	CHRC	19500-3080-11	/159	Same as above
§ 1N823-1, UR-1					
§ 1N825-1, UR-1					
§ 1N827-1, UR-1					
§ 1N829-1, UR-1					
§ 1N4565A-1, UR-1 thru 1N4584A-1, UR-1				/452	Plant (2): Aeroflex-Metelics East 55 Grenier Field Road Londonderry, NH 03053 (wafer fabrication)

§ Includes JANS quality level only

This qualification approval is based upon test report number 19500-3080-11 for your die and package, your letter dated October 22, 2011 requesting qualification, and subsequent emails with data. 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.

Sincerely,

JOSEPH GEMPERLINE  
 Chief  
 Sourcing and Qualifications Division

Cc: Nancy Young