



**DEFENSE LOGISTICS AGENCY**  
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 COLUMBUS, OH 43218-3990

IN REPLY  
 REFER TO

DSCC-VQ (VQE-09-017180/Mr. Carpenter/614-692-7078/kc)  
 SUBJECT: Notification of Qualification, MIL-PRF-19500N, FSC 5961

January 13, 2009

Mr. Mark McNulla  
 HI-REL Components  
 9 Hampshire Street  
 Lawrence, MA 01840

Dear Mr. McNulla:

Qualification of your product is granted under the current issue of the specification as a result of successful testing of device type JAN1N6642 to Performance Specification MIL-PRF-19500N, Semiconductor Devices, FSC 5961, and performance specification /578, revision H. Qualification is also granted to the other device types 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 0835. The effective date of this qualification is January 7, 2009.

The qualification lot Thermal Impedance screening conditions and upper limit are the following:

$$I_M = 10 \text{ mA}, I_H = 1 \text{ A}, t_H = 10 \text{ ms}, T_{MD} = 70 \text{ us}, Z_{\theta JX} \text{ limit} = 22^\circ \text{C/W maximum}$$

Government Designation	ESD Class	Manufacturer Designation	Test Report Reference	Prf. Spec	Manufacturer Name & Address
**1N6638, US	3	CHRC	19500-2465-09	/578	Same as above
**1N6642, US					
**1N6643, US					
**1N6639, US				/609	
**1N6640, US					
**1N6641, US					
					Plant (2): Aeroflex Micrometrics 55 Grenier Field Road Londonderry, NH 03053 (wafer fabrication)

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

This qualification approval is based upon test report number 19500-2465-09 and your letter dated December 17, 2008, is subject to the conditions as 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. Carpenter, 614-692-7078.

Sincerely,

JOSEPH GEMPERLINE  
 Chief  
 Sourcing and Qualifications Division