



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

February 06, 2015

Ms. Beth Parker  
 Microsemi Lawrence  
 6 Lake Street  
 Lawrence, MA 01841-3011

Dear Ms. Parker:

Re: Notification of Re-Qualification, MIL-PRF-19500P, FSC 5961; VQ (VQE-15-029156), CAGE Code 43611, Control # 045538

Re-Qualification of your product is granted under the current issue of the specification as a result of successful qualification testing of device type JANSR2N3811 to Performance Specification MIL-PRF-19500P, Semiconductor Devices, FSC 5961, and performance specification /336L, Amend 2. This requalification was necessitated as a result of a design and construction change to improve radiation performance. Extension is granted to the other devices listed below as allowed by paragraph E.4.2.2 (Qualification by Extension). This qualification will supersede test reports 19500-2622-09 and 19500-2581-09. Therefore, your products will be listed as shown below in Qualified Manufacturers List (QML) 19500. This qualification is effective as of January 30, 2015. The starting lot date code is 1346.

The qualification lot thermal impedance conditions and upper limits are as follows (subject to change after 5 lots with the approval of the qualifying activity):

$I_M$	$I_H$	$t_H$	$t_{MD}$	$Z_{\theta JX}$ (Screening)	$Z_{\theta JX}$ (QCI)
5 mA	50mA	25ms	60 $\mu$ s	60.41 °C/W max	63.0 °C/W max

Government Designation	Lead Finish	ESD Class	Manufacturer Designation	Test Report Reference	Perform. Spec.	Manufacturer Name & Address
S 2N3810 & 2N3811; L;U	A	3B <u>6/</u>	CDWR	19500-4420-15	/336	Same as above
SR 2N3810 & 2N3811;L,U						
JANHCA2N3810 & HCA2N3811	N/A	N/A				
JANKCA2N3810 & KCA2N3811						
JANHCAR2N3810 & HCAR2N3811						
JANKCAR2N3810 & KCAR2N3811						

6/ Testing is compliant to the latest revision of MIL-STD-750 Test Method1020.3

S Includes JANS quality level only  
 JANHCA is for JANHC quality level only  
 JANKCA is for JANKC quality level only

Plant 1: Same as above

This qualification approval is based upon test report number 19500-4420-15 for your die & package, your data and letter dated December 5, 2014 requesting requalification, and subsequent data. This qualification 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. Carl DelloStritto 614-692-0616.

Sincerely,

JOSEPH GEMPERLINE  
Chief  
Sourcing and Qualifications Division