



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

IN REPLY  
REFER TO

DLA LAND AND MARITIME-VQ (VQE-11-022218/.Mr.DelloStritto/614-692-0616)

March 25, 2011

SUBJECT: Notification of Qualification, MIL-PRF-19500N, FSC 5961; CAGE: 43611

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

Dear Ms. Parker:

Qualification of your product is granted under the current issue of the specification as a result of successful testing of device type JANTXV2N3421U4 to Performance Specification MIL-PRF-19500N, Semiconductor Devices, FSC 5961, and performance specification /393, Rev H. Qualification by 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 effective date of this qualification is March 25, 2011. The beginning lot date code for this qualification is E0937.

The qualification lot Thermal Impedance conditions and upper limits are for the following devices only; (subject to change after 5 lots with approval from the qualifying activity)

Devices	I <sub>M</sub>	I <sub>H</sub>	t <sub>H</sub>	t <sub>MD</sub>	Z <sub>o</sub> jx (Screening)	Z <sub>o</sub> jx (QCI)
2N3418U4-2N3421U4	10 mA	100mA	10 ms	60 μs	3.0 °C/W max	3.0 °C/W max

*NOTE: All other devices listed below do not have established thermal conditions. As devices are produced, this letter will be updated to add those conditions.*

Government Designation	ESD Class	Manufacturer Designation	Test Report Reference	Prf Spec	Manufacturer Name & Address
**2N3418U4-2N3421U4 <u>1/</u>	3B	CDWR	19500-3083-11	/393	Same as above
**2N3506U4,2N3507U4; AU4	3B			/349	
**2N3867U4, 2N3868U4	3B			/350	
**2N3498U4-2N3501U4	NS			/366	
**2N3439U4, 2N3440U4	3B			/368	
**2N3762U4, 2N3763U4	3B			/396	
**2N3743U4, 2N4930U4,	3B			/397	
**2N4931U4	3B				
**2N3740U4, 2N3741U4 <u>1/</u>	3B			/441	
**2N5415U4, 2N5416U4	3B			/485	

Plant 1: Same as above

Plant 3: 1/ Bourns Ltd.  
 Bedford, United Kingdom  
 (Wafer Fabrication)

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

This qualification approval is based upon test report number 19500-3083-11 for your die and package, your letter dated October 28, 2010 requesting qualification and qualification by extensions for the U4 package, and subsequent emails. 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.

Sincerely,

/SIGNED/

JOSEPH GEMPERLINE  
Chief  
Sourcing and Qualifications Division