



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

Mr. Matthew D. Johnston  
 MACOM Technology Solutions Inc.  
 9 Hampshire Street  
 Lawrence, MA 01840

April 05, 2018

Dear Mr. Johnston:

Re: Notification of Qualification MIL-PRF-19500P, Amend 3; FSC 5961; VQ (VQE-18-032453); CAGE Code: 52GC4; Control Number: 061742.

Qualification of your product is granted as a result of successful testing of JAN1N4148-1 to Performance Specification MIL-PRF-19500P, Amend 3, Semiconductor Devices, FSC 5961, and performance specification /116, Rev S. 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 beginning lot date code for this qualification is H1752. The effective date of this qualification is April 05, 2018.

Device	Thermal Impedance Conditions				ZθJX Limits	
	I <sub>M</sub>	I <sub>H</sub>	t <sub>H</sub>	t <sub>MD</sub> (Dt)	Spec	Screening & QCI
/116, /144, /231, /337	10mA	1A	10ms	70µs	70.0°C/W	40.0°C/W

Government Designation	ESD Class	Manufacturer Designation	Test Report Reference	Prf. Spec	Manufacturer Name & Address
** 1N914, UR ** 1N4148-1, UR ** 1N4531, UR	3A	CHRC	19500-5121-18	/116	Same as above
** 1N4454-1, UR-1 ** 1N4532	3A	CHRC	19500-5121-18	/144	
** 1N4150-1, UR-1, 1N3600 ** 1N4153-1, UR-1	3A 3A	CHRC CHRC	19500-5121-18 19500-5121-18	/231 /337	Plant 5: MACOM Lowell 100 Chelmsford Rd Lowell, MA 01851 (Wafer fabrication)

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

This qualification approval is based upon test report number 19500-5121-18 for your die and package and your letter dated March 11, 2018. 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. In addition, 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 concerning this letter, please contact Mr. Karadsheh at (614) 692-0611.

Sincerely,

for **ALAN J. WILL**  
 Chief  
 Sourcing and Qualifications Division