



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

February 9, 2016

Ms. Janis Ergle
TTM Technologies
4 Old Monson Rd.
P.O. Box 145
Stafford, CT 06075-0145

RE: Notification of Add-On Qualification, MIL-PRF-31032, FSC 5998, CAGE Code 5L706;
VQ(VQE-16-030095), CN49623

Dear Ms. Ergle:

Qualification of your products is granted under the current issue of the specification as a result of successful add-on qualification testing to Military Performance Specification MIL-PRF-31032, Printed Circuit Board/Printed Wiring Board, and associated specification MIL-PRF-31032/1, /2, /3, /4, and /Custom. These add-on qualifications are based on your technical review board (TRB) review and approval of the material and classification indicated below. Your add-on qualifications expanded the following capabilities.

CAPABILITIES BY TECHNOLOGY / PRINTED BOARD TYPE:		
MIL-PRF-31032/1, /2	FROM:	TO:
Min. Plated Through Hole Size (AF Base Materials)	0.032"	0.0138"
Aspect Ratio (AF Base Materials)	3:1 Through-Hole	5:1 Through-Hole

CAPABILITIES BY TECHNOLOGY / PRINTED BOARD TYPE:		
MIL-PRF-31032/1, /2	FROM:	TO:
Max. Number of Layers (BI Base Materials)	10	22
Max. Board Thickness (BI Base Materials)	0.100"	0.129"
Aspect Ratio (BI Base Materials)	6:1 Through-Hole	11:1 Through-Hole



CAPABILITIES BY TECHNOLOGY / PRINTED BOARD TYPE:		
MIL-PRF-31032/1, /2	FROM:	TO:
Max. Panel Size (GI Base Materials)	18" x 24"	24" x 36"
Min. Plated Through Hole Size (GI Base Materials)	0.0118"	0.0079"

CAPABILITIES BY TECHNOLOGY / PRINTED BOARD TYPE:		
MIL-PRF-31032/1, /2, /Custom	FROM:	TO:
Max. Panel Size (Hydrocarbon/Ceramic Base Materials)	18" x 24"	24" x 42"
Min. Plated Through Hole Size (Hydrocarbon/Ceramic Base Materials)	0.0177"	0.0098"

CAPABILITIES BY TECHNOLOGY / PRINTED BOARD TYPE:		
MIL-PRF-31032/Custom	FROM:	TO:
Max. Panel Size (PTFE/Ceramic Base Materials)	18" x 24"	24" x 30"
Max. Number of Layers (PTFE/Ceramic Base Materials)	12	16
Min. Plated Through Hole Size (PTFE/Ceramic Base Materials)	0.0197"	0.0098"
Aspect Ratio (PTFE/Ceramic Base Materials)	3.3:1 Through-Hole	7.6:1 Through-Hole

CAPABILITIES BY TECHNOLOGY / PRINTED BOARD TYPE:		
MIL-PRF-31032/3, /4	FROM:	TO:
Minimum Plated Through Hole Size (Adhesiveless Flex Base Materials)	0.0118"	0.0079"

Test report number 31032-4639-16 has been assigned to your test data. These qualifications are based on your MIL-PRF-31032 certification and are subject to the conditions stated below:

1. A listing on the Qualified Manufacturers List (QML) does not guarantee acceptance of the product(s) in any future purchase.
2. QML listing does not constitute a waiver of any requirements of the specification or of the provisions of any contract.
3. Advertising of qualification information is permitted. Permission to use such information for advertising or publicity purposes is granted provided that such publicity or advertising does not state or imply that the product(s) is the only product of that type qualified or that the Department of Defense in any way recommends or endorses the manufacturer's product.
4. The listing applies only to products produced in the plant(s) specified in this letter of notification of qualification and applies to future amendments or revisions of the specification, unless otherwise notified.
5. The listing applies only to materials and manufacturing construction techniques identical to or covered by that (those) qualified. The qualifying activity must be advised in advance of any change to the materials and manufacturing construction techniques. Failure to notify the qualifying activity of any change to the materials and manufacturing construction techniques is cause for removal from the QML.

Because we are held responsible for the accuracy and currency of this QML, please let us know if your company discontinues production utilizing these materials or processes. If you have any questions, please contact Mr. Lowell Sherman at vqe.ls@dla.mil or 614-692-0627.

Sincerely,

ALAN J. WILL
Acting Chief
Sourcing and Qualifications Division

Enclosure