



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

October 14, 2011

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

RE: Notification of Add-On Qualification, Printed Board Panel Size (BI Base Materials),  
 Copper Core Construction (GF, GI, Adhesiveless Flex Base Materials), MIL-PRF-31032,  
 FSC 5998, CAGE Code 5L706; VQ(VQE-12-023366), CN34643

Dear Ms. Herbert:

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, and /4. This add-on qualification is based on your technical review board (TRB) review and approval of the material and classification indicated below. Your add-on qualification expanded the following capabilities.

CAPABILITIES BY TECHNOLOGY / PRINTED BOARD TYPE:		
MIL-PRF-31032/1, /2	FROM:	TO:
Max. Panel Size (BI Base Materials)	12" x 18"	18" x 24"

CAPABILITIES BY TECHNOLOGY / PRINTED BOARD TYPE:		
MIL-PRF-31032/1, /2, /4	FROM:	TO:
Additional Fab Capabilities (GF, GI, Base Materials)	Blind Vias, Buried Vias, Copper Invar Copper, Embedded Resistors, Press Fit Mounting, Sequential Lamination	Blind Vias, Buried Vias, Copper Core, Copper Invar Copper, Embedded Resistors, Press Fit Mounting, Sequential Lamination
Additional Fab Capabilities (Adhesiveless Flex Base Materials)	Blind Vias, Buried Vias, Sequential Lamination	Blind Vias, Buried Vias, Copper Core, Sequential Lamination

Test report number 31032-3380-12 has been assigned to your test data. This qualification is based on your MIL-PRF-31032 certification and is 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](mailto:vqe.ls@dla.mil) or 614-692-0627.

Sincerely,

/SIGNED/

JOSEPH GEMPERLINE  
Chief  
Sourcing and Qualifications Division