



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

January 22, 2013

Mr. Randall Kammrad  
 Midwest Printed Circuit Services  
 1741 Circuit Drive  
 Round Lake Beach, IL 60073

Dear Mr. Kammrad:

RE: Notification of Qualification, MIL-PRF-31032B, FSC 5998; CN038283, VQ (VQE-13-025705)

Qualification of your products is granted under the current issue of the specification as a result of successful qualification testing to Department of Defense Performance Specification MIL-PRF-31032, Printed Circuit Board/Printed Wiring Board, and associated specifications MIL-PRF-31032/1 and MIL-PRF-31032/2. The capabilities indicated below shall be listed on Qualified Manufacturers List QML-31032. The effective date of this qualification is January 22, 2013.

<b>MANUFACTURER NAME &amp; ADDRESS</b>	<b>PLANT LOCATION</b>	<b>CAGE CODE: 0YYS4</b>
Midwest Printed Circuit Services 1741 Circuit Drive Round Lake Beach, IL 60073	Same	<b>PHONE #: 847-740-4120</b> <b>FAX #: 847-740-4187</b>
<b>CAPABILITIES BY TECHNOLOGY / ASSOCIATED SPECIFICATION:</b>		
Specification: MIL-PRF-31032/1, MIL-PRF-31032/2 Qualification Letters: VQE-13-025705 Rigid Base Material: GI: Glass Base, Woven, Polyimide Resin, Heat Resistant Max. Panel Size: 12" x 18" Max. Number of Layers: 10 Max. Board Thickness: .100" Min. Hole Size: 0.023" Drilled Plated-Through Hole Before Plating Aspect Ratio: 4:1 Plated Through-Hole Min. Conductor Width/Space: .010"/.010" Hole Preparation: Permanganate Desmear, Plasma Desmear, Plasma Etchback Hole Wall Conductive Coating: Electroless Copper Copper Plating: Direct Current Plate Solder Resist: Liquid Photoimageable Finish System: HASL, ENIG (extended from 31032-3553-12)		

Test report number 31032-3651-12 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. Since a portion of this qualification is based on test data from 2011, Midwest Printed Circuit Services' first biennial CVI report shall cover the period from the date of qualification through December 31, 2013, and is due into this office by February 28, 2014. If you have any questions, please contact Mr. Lowell Sherman, (614) 692-0627 or [vqe.ls@dla.mil](mailto:vqe.ls@dla.mil).

Sincerely,

/SIGNED/

JOSEPH GEMPERLINE  
Chief  
Sourcing and Qualifications Division