



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

January 21, 2016

Mr. Dale Lubitz
Pro-Tech Interconnect Solutions
4300 Peavey Road
Chaska, MN 55318-2351

Dear Mr. Lubitz:

RE: Notification of Add-On Qualification, GF Material, MIL-PRF-31032, FSC 5998, CAGE Code 3CP65; CN049059, VQ(VQE-16-030058)

Add-on 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 specifications MIL-PRF-31032/1 and /2. 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 capabilities listed below.

CAPABILITIES BY TECHNOLOGY / PRINTED BOARD TYPE:		
MIL-PRF-31032/1, /2	FROM:	TO:
Max. Number of Layers	10	16
Min Drilled Hole Size	0.024" Drilled Hole Size Before Plating (in-house)	0.0059" Drilled Hole Size Before Plating (in-house)
Min Laser Ablated Hole Size	N/A	0.005" Laser Ablated Plated Hole Size Before Plating (in-house)
Aspect Ratio	4:1	15:1, 1:1 microvia
Min. Conductor Width	0.005"	0.003"
Min. Conductor Space	0.005"	0.002"
Hole Fill/Via Plug	N/A	Conductive/Non-Conductive



Final Finish	HASL	Electrolytic Ni/Hard Au, HASL, ENIG, ImmAg, OSP
Additional Fab Capabilities	N/A	Blind Vias, Buried Vias
Controlled Impedance	N/A	Differential, Single-Ended

Test report number 31032-4606-16 has been assigned to your test data for the changes to Pro-Tech Interconnect Solutions' capabilities listings as noted above. 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. Should you have questions, please contact Mr. Robert Puckett at vqe.rp@dla.mil or 614-692-0625.

Sincerely,

ALAN J. WILL
Acting Chief
Sourcing and Qualifications Division