



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

July 3, 2017

Mr. Ian Hanna  
ITL Circuits  
90 Don Park Road  
Markham, Ontario  
Canada L3R 1C4

Dear Mr. Hanna:

RE: Notification of Qualification, MIL-PRF-31032C, FSC 5998; CN057075, VQ (VQE-17-031540)

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 July 3, 2017.

<b>MANUFACTURER NAME &amp; ADDRESS</b>  ITL Circuits 90 Don Park Road Markham, Ontario Canada L3R 1C4	<b>PLANT LOCATION</b>  Same	<b>CAGE Code: 38747</b>  Phone: 905-475-6658 Fax: 905-475-5097 Email: sales@itlcircuits.com
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**CAPABILITIES BY TECHNOLOGY / ASSOCIATED SPECIFICATION:**

Specification: MIL-PRF-31032/1, MIL-PRF-31032/2  
Qualification Letters: VQE-17-031540  
Rigid Base Material: GF: Woven E-Glass, Epoxy Resin, Flame Resistant  
Max. Panel Size: 18" x 24"  
Max. Number of Layers: 14  
Max. Board Thickness: .080"  
Min. Hole Size: 0.0138" Drilled Plated-Through Hole Before Plating  
Aspect Ratio: 5.7:1 Through-Hole  
Min. Conductor Width/Space: .010"/.008"  
Hole Preparation: Plasma Etchback  
Hole Wall Conductive Coating: Electroless Copper  
Copper Plating: Pulse Plate (Reverse)  
Solder Resist: Liquid Photoimageable  
Finish System: HASL, ENIG  
Additional Fab Capabilities: Foil Lamination

Test report number 31032-4602-16 has been assigned to your test data for the GF material qualification. This qualification is 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, (614) 692-0627 or [vqe.ls@dla.mil](mailto:vqe.ls@dla.mil).

Sincerely,

for ALAN J. WILL  
Chief  
Sourcing and Qualifications Division