

MIL-PRF-31032

PRINTED BOARD CERTIFICATION

IS HEREBY AWARDED TO

GORILLA CIRCUITS 1445 Old Oakland Road San Jose, CA 95112

THIS CERTIFICATION IS VALID UNTIL TERMINATED BY WRITTEN NOTIFICATION FROM DLA LAND AND MARITIME. REFERENCE DLA LAND AND MARITIME LETTER VQ(VQE-10-020866) FOR DETAILS PERTAINING TO THIS CERTIFICATION. / SAMUEL E. MERRITT
Director, Operations Support Directorate
DLA Land and Maritime



DEFENSE LOGISTICS AGENCY

POST OFFICE BOX 3990 COLUMBUS, OH 43218-3990

April 14, 2011

Mr. David Williams Gorilla Circuits 1445 Old Oakland Rd San Jose CA 95112

Dear Mr. Williams:

Re: Notification of Qualification, MIL-PRF-31032; FSC 5998; CAGE Code 3C7D2; VQE-11-022314

Qualification of products is granted as a result of successful qualification testing to Military Performance Specification MIL-PRF-31032, Printed Circuit Board/Printed Wiring Board, and associated specification sheets MIL-PRF-31032/1 and /2. The capabilities qualified for each base material and specification sheet indicated below shall be listed on Qualified Manufacturers List QML-31032. The effective date of this qualification is April 8, 2011.

MANUFACTURER		
INFORMATION	BASIC PLANT LOCATION	PHONE: (408) 294-9897
		FAX: (408) 297-1540
Gorilla Circuits		EMAIL: info@gorillacircuits.com
1445 Old Oakland Rd	Same	CAGE CODE: 3C7D2
San Jose CA 95112		

CAPABILITIES BY TECHNOLOGY / PRINTED BOARD TYPE:

MIL-PRF-31032 /1, /2

Base Materials GF (Woven E-Glass, Epoxy Resin)

Qualification Letters VQE-11-022314

Max. Panel Size 18" X 24"

Number of Layers 18

Max. Board Thickness 0.180"

Min. Plated Thru Hole (before plating) 0.010"

Aspect Ratio (plated through hole) 18:1
Min. Conductor Width 0.004"

Min. Conductor Spacing 0.005"

Hole Preparation Permanganate Desmear, Plasma Desmear

Hole Wall Conductive Coating Electroless Copper
Copper Plating Method Periodic Reverse Plate

Solder Resist LPI

Finish System HASL, ENIG, Electrolytic Nickel/Hard Gold

Controlled Impedance Single-Ended, Differential

MANUFACTURER **INFORMATION** BASIC PLANT LOCATION PHONE: (408) 294-9897 FAX: (408) 297-1540 EMAIL: info@gorillacircuits.com Gorilla Circuits 1445 Old Oakland Rd CAGE CODE: 3C7D2 Same San Jose CA 95112 CAPABILITIES BY TECHNOLOGY / PRINTED BOARD TYPE: MIL-PRF-31032 /1, /2 Base Materials GI (Woven E-Glass, Polyimide Resin) Qualification Letters VQE-11-022314 18" X 24" Max. Panel Size Number of Lavers 18 Max. Board Thickness 0.093" 0.010" Min. Plated Thru Hole (before plating) Aspect Ratio (plated through hole) 9.3:1 Aspect Ratio (microvia) 1.25:1 Min. Conductor Width 0.004" Min. Conductor Spacing 0.005" Hole Preparation Plasma Etchback, Permanganate Desmear Hole Wall Conductive Coating Electroless Copper Copper Plating Method Periodic Reverse Plate Hole Fill / Via Plug Conductive, Non-conductive Solder Resist IPI

Test report number 31032-3217-11 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:

HASL, ENIG, Electrolytic Nickel/Hard Gold

Single-Ended, Differential

Sequential Lamination, Blind Vias, Buried Vias

Finish System

Controlled Impedance

Additional Fabrication Capabilities

- 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.

Manufacturers are required to inform this Office immediately if a failure occurs during PCI testing, if production of this qualification is discontinued, or prior to issuance of a GIDEP Alert and/or Problem Advisory on their QML products. If you have any questions, please contact Mr. Jonathan Stone, (614) 692-0625 or vqe.js@dla.mil.

Sincerely,

JOSEPH GEMPERLINE

Chief

Sourcing and Qualification Division

Visit us on the web at www.dscc.dla.mil/offices/sourcing_and_qualification