



EMAILED
9-10-12

**Ernest Orlando Lawrence
Berkeley National Laboratory**

*FINANCIAL SERVICES DIVISION
ONE CYCLOTRON ROAD
MAILSTOP 7 * ROOM 204
BERKELEY, CA 94720
TELEPHONE: (510) 495-2896
FAX: (510) 486-5148
Email: TMarquez@lbl.gov*

DATE: 09/10/2012_____

TO: MICHELLE GLATTS

COMPANY: HUGHES CIRCUITS INC.

FAX NO.: EMAILED

Subject: Faxing PO#7033010 to confirm order.

PAGE(S): 4_____
(INCLUDING THIS SHEET)

PLEASE PRE-PAY AND ADD SHIPPING COSTS TO INVOICE.

Thank You,
Tony Marquez

*Tony Marquez
FINANCIAL SERVICES DIVISION - DPU PROCUREMENT*



**University of California
Ernest Orlando Lawrence
Berkeley National Laboratory**

For Contract No. DE-AC02-05CH11231
with the Department of Energy

HUGHES CIRCUITS INC
540 SOUTH PACIFIC STREET
SAN MARCOS CA 92078

SUBCONTRACT

| | | | |
|-----------------------------------|---|----------------------|-----------|
| Subcontract/PO# 7033010 | Date 09/10/2012 | Revision | Page 1 |
| Payment Terms Net 15 | Freight Terms SHIP POINT LBNL PAYS FRT | Ship Via UPS GRND | |
| BUYER: Marquez,Anthony S | | 510/495-2896 | |

Ship To: UC LAWRENCE BERKELEY LAB
FOR THE US DEPT. OF ENERGY
ONE CYCLOTRON ROAD, BLDG. 69
BERKELEY CA 94720
PO# 7033010

Bill To: Lawrence Berkeley National Lab
Accounts Payable Dept.
1 Cyclotron Rd - MS 971-AP OR APInvoice@lbl.gov
Berkeley CA 94720

FOR RESALE: CA State sales tax shall not be charged for
purchases, per CA State Resale Permit SR CH 21-835970

Confirm Date: 10-SEP-2012 Confirmed To: MICHELLE GLATTS

| Line | Description | Quantity | UOM | Unit Price | Extended Amt | Ship Date |
|------|--|----------|-----|------------|--------------|------------|
| 1 | Build 15 pc bds, FR4 & kapton materials, 1 oz copper, ENIG plating, 4 cover-lays, 2 silkscreens. Boards to be shipped after component assembly. Line 1 Comments << Boards will be shipped after component assembly, new p.o. for assembly. >> Line 1 Comments "QUALITY ASSURANCE/INSPECTION: 1. THE ABOVE ITEM/ITEMS SHALL CONFORM TO ALL REQUIREMENTS LISTED ON THE SPECIFICATIONS/DRAWINGS. THE LAWRENCE BERKELEY NATIONAL LAB RESERVES THE RIGHT TO INSPECT ALL OF THE ITEMS FOR CONFORMANCE TO THE SPECIFICATIONS/DRAWINGS AND REJECT ANY ITEMS THAT DO NOT MEET THE REQUIREMENTS. 2. IN THE EVENT THE ITEM/ITEMS FURNISHED BY THE SUBCONTRACTOR ARE NOT IN CONFORMANCE WITH THE SUBCONTRACT, SPECIFICATION, OR DRAWINGS, THE SUBCONTRACTOR SHALL BE NOTIFIED TO PROMPTLY CORRECT ANY DEFICIENCY. IF UPON BEING NOTIFIED BY THE LAWRENCE BERKELEY NATIONAL LAB OF NON-CONFORMING OR DEFECTIVE WORK AND HAVING BEEN REQUESTED TO CORRECT THE DEFECTIVE WORK OR MATERIALS IN AN EXPEDITIOUS MANNER SUBCONTRACTOR STATES OR BY IT'S ACTIONS INDICATES IT'S INABILITY OR UNWILLINGNESS TO COMPLY, THE LAWRENCE BERKELEY NATIONAL LAB SHALL PROCEED TO ACCOMPLISH THE WORK BY THE MOST EXPEDITIOUS MEANS AVAILABLE TO IT AND TO BACKCHARGE SUBCONTRACTOR FOR THE COST OF THE REQUIRED WORK. THE COST OF SUCH BACKCHARGE WORK SHALL BE COMPUTED AS FOLLOWS: A. LABOR SHALL BE CHARGED AT ACTUAL COST PLUS AN EQUITABLE PERCENT FOR PAYROLL ADDITIVES (BURDEN RATES). B. MATERIAL SHALL BE CHARGED AT THE ACTUAL DELIVERY COST. COST FOR SUCH BACKCHARGE WORK SHALL BE DEDUCTED FROM SUBCONTRACTOR'S INVOICE FOR THE WORK. SUBCONTRACTOR RESERVES THE RIGHT TO CONTEST THE VALIDITY AND AMOUNT OF ANY BACKCHARGE WORK UNDERTAKEN BY THE LAWRENCE BERKELEY NATIONAL LAB PURSUANT HERETO. 3. THE LAWRENCE BERKELEY NATIONAL LAB RESERVES THE RIGHT TO VISIT THE SUBCONTRACTOR UPON REASONABLE PRIOR NOTICE, TO REVIEW THE FABRICATION PROGRESS AND INSPECT THE MANUFACTURING FACILITY. | 15.00 | EA | 313.75 | 4,706.25 | 09/26/2012 |



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Ernest Orlando Lawrence
Berkeley National Laboratory**

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Confirm Date: 10-SEP-2012 Confirmed To: MICHELLE GLATTS

| Line | Description | Quantity | UOM | Unit Price | Extended Amt | Ship Date |
|------|--|----------|-----|------------|--------------|-----------|
| 1 | Comments TERMS AND CONDITIONS: THE ATTACHED "GENERAL PROVISIONS FOR COMMERCIAL SUPPLIES AND SERVICES" DATED JANUARY 19, 2012 IS MADE A PART OF THIS SUBCONTRACT AND IS EQUALLY BINDING. Line 1 Comments See attached QUOTE#29722 FOR GOODS AND SERVICES ONLY. | | | | | |

TOTAL - 4,706.25

Line
University of California, Lawrence Berkeley National Laboratory

Authorized LBNL Signature

Quotation

Hughes

Circuits, Inc.

540 South Pacific Street San Marcos CA 92078
Tel: 760-744-0300 Fax: 760-744-6388
email: sales@hughescircuits.com

Quotation Number: 29722
Date: 9/5/2012
Good Through: 10/5/2012

Quoted To:

LAWRENCE BERKELEY LABS
PO BOX 528
BERKELEY CA 94701

Payment Terms: NET 30
Ship Via: UPS Ground
F.O.B: ORIGIN
Sales Person: MG
PO:

Attention: JUDY STIRKKINEN

Fax:

| Part Number | Rev | RFQ | Delivery | Quantity | Price Each | Extension |
|------------------------------|-----|-----|----------|----------|------------|------------|
| UCPD Inner Ladder Driver BD0 | | | 10 Days | 15 | \$313.75 | \$4,706.25 |

Non-Recurring and Test Charges:

PWB Specification:

| General Information | | Finishes | Technology |
|---------------------|-----------------|--------------------------|-------------------------|
| Material Type | : Kapton & FR4 | | |
| Layer Count | : 4 | Surface Finish : ENIG | |
| Class | : 2 | Soldermask Color : Green | Routing : INDIVIDUAL |
| Board Size | : 6.789 x 3.488 | Legend Color : White | Blind/Buried Vias: : NO |
| | | | Laser Drill/Rout: : NO |
| | | | Filled Holes: : NO |

Special Requirements/Comments

No data at time of quote

Terms & Conditions:

Quotation is based on the above PWB specifications manufactured in accordance with IPC-A-600 Class II or specifications provided by the customer if different. Any changes may require a new quotation. All quotations subject to change after full and complete review of manufacturing files. Quick Turn orders should provide an engineering contact to ensure quick error resolution.

All quotes are subject to manufacturing capacity at the time the order is placed.

All deliveries quoted are in business days, excluding weekends and legal holidays, and do not include material lead time unless otherwise specified.

Lead time does not start until all file and document discrepancies are resolved and if any artwork approval is required not until final approval is received. We are not responsible for any DXF file conversion errors.

Buyer's EXCLUSIVE REMEDY for non-conforming parts is repair or replacement and only if notified within 30 days from shipment and only if boards are stored and baked in accordance with IPC 1601.

NO WARRANTY on boards which prohibit supplier markings, unless a sole source supplier agreement is in place.

In the event of a new order where time is a factor we will require GERBER DATA, NCD FILES, FABRICATION DRAWINGS OR FILES and a PURCHASE ORDER by 11:30 AM in order for that day be considered DAY ZERO.

New customers that desire open credit terms should submit their Bank and three trade references before they place their Purchase Order. We also accept VISA, MASTERCARD and AMERICAN EXPRESS. Pricing reflects 5% cash discount. All credit card orders will be invoiced with a 5% credit card processing fee.

International shipments must be shipped to purchasers address, we do not offer drop shipments on international orders.
Thank You for selecting Hughes Circuits Inc.

Thank you for the opportunity to quote your printed circuit board requirements.

Michelle Glatts

(Customer Service Rep)