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Sierra Circuits, Inc.
 1108 W. Evelyn Avenue
 Sunnyvale, CA 94086, USA
 408-735-7137
 http://www.protoexpress.com

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Sales Order Confirmation

Order Date	Nov 29 2012	Part Number	Power Supply Panel
Order Type	CQ	Revision	
Work Order Number	261219	Order Number	256044-iQ-1
Tool Number	91982	Order Status	In process
Internal Sales Rep	Gabriel Chavarria	Line Item Type	PCB Fabrication

Buyer : Robert Stickney Email : rstickney@as.arizona.edu Phone: 520-626-9722 Fax :	Designer Contact Robert Stickney University of Arizona Email: rstickney@as.arizona.edu Phone: 520-256-6127	Purchase Order Number (if applicable) Name on Card UA Steward Observatory Card Number *****9584 (Last 4 digits) Card Type Visa Card Expiry JUN-2013
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Quantity	Quote Amount	NRE	Electrical Testing	Misc Charges	Other Charges	Sub-Total	Tax	Shipping And Handling (FedEx Standard Over Night)	Final Adjustments ()	TOTAL
18 Boards (1 Array(s))	\$374.94	\$0.00	\$0.00	\$0.00	\$0.00	\$374.94	\$0.00	\$35.00	\$0.00	\$409.94

- ▶ NRE done, with charges
- ▶ Electrical Testing done, with charges
- ▶ This document may be regarded as a formal Invoice if Order Status is shown as "Shipped".

Part Information	
Turn Time	5
Product Name	Custom Quote
Layers	2
Number of boards per array	18
Array Dimensions	9.3 inches x 15.5 inches
Board Dimensions	3.5 inches x 2.5 inches
Customer Notes	

Product Description			
Enable PCB Assembly Specs ?	No	Surface Finish	HASL
Scoring	No	Ground Plane on Outer Layer	Yes
Number of Holes Per Board	111 bd/1998 array	Micro Section Coupon	No
Silk Screen Sides	Both	Drill file provided?	Yes
Enable Component Pricing Details?	No	Gold Fingers	No
Smallest Inside Radius	N/A	Solder Mask	Yes
Minimum Hole Size	28 mils	Make Material	No
Silk Screen Color	White	Fab drawing provided?	No
Enable PCB Design Specs?	No	Starting Copper Outer	1 oz
Material	FR4- lead free	Solder Mask Sides	Top and Bottom
Internal Slots	None	Enforce Single Job Batch	No
Logo Allowed	In copper or silk	IPC Netlist Provided?	No
		Outer Layer Finish Copper	2 Oz
		Solder Mask Color	Green
		Preliminary STA check by	STA Check Pass

PCB Fabrication Spec	IPC-600 Class 2	Assembly BOM Available	No
UL Required	No	Inner Copper	Not Applicable
Internal Cutouts	None	Solder Mask Type	LPI
Photo plots	No	Rohs Marking	No
ITAR?	No	Array	Yes
ROHS compliant	No	Electrical Test	Yes
Minimum Trace (Outer layer)	15 mils	Solder Mask Finish	Standard (Semi-Gloss)
Check Plots for approval	No	Silk Screen method	Any
Multi part Gerbers	Not Applicable	Arrays need to be created by Sierra	No
Backer Board	No	Etchback	No
Minimum Space (Outer layer)	15 mils	Solder Mask Via Opens	Open on both sides
Plot Transfer Method to Customer	None	Aerospace Application	No
Gerbers provided?	Yes	Individual Route	Yes
Finished Thickness	0.062 inches	Controlled Impedance	None
Minimum Trace (Inner layer)	Not Applicable	SM Plugged Vias	No
Solderpaste Files for Customer	No	Medical Application	No
Layer order provided?	Yes	Route and Retain	No
Thickness Tolerance	Plus or Minus 10%	Controlled Dielectric	No
Minimum Space (Inner layer)	Not Applicable	Silk Screen	Yes
Cross Section certificate	No		
Board outline provided?	Yes		

Order File history			
File name	Upload date	Uploaded by	File Used

Contact Information	
Billing Contact Craig Kulesa () University of Arizona Steward Observatory 933 N Cherry Ave., Rm. 374b Tucson, Arizona 85721-0065 United States Phone:	Shipping Contact Robert Stickney(rsstickney@as.arizona.edu) University of Arizona Steward Observatory 933 N Cherry Ave. Tucson, Arizona 85721-0065 United States Phone: 520-256-6127

Shipping Information			
Tracking number		Ship Date	DEC-5-2012
Promo Code (if any)			
Notes for Customer			
Shipping Notes			

Generic Terms & Conditions:

- Prices are FOB Sunnyvale in US dollars; Taxes & Shipping Charges extra as applicable.
- This quote is only valid for 30 days unless otherwise agreed upon in writing by our representatives
- If you have provided a Fedex/UPS account number, then your shipping charges are \$0.00. However, if your Fedex/UPS account number is found to be invalid, we will charge our regular shipping charges.

PCB Fabrication Terms & Conditions

- Sale subject to limited warranty. If you are buying PCBs only, then warranty extends only to bare PCBs and does not apply after components are added by you or others. Our liability shall not exceed price paid by you for the ordered PCBs. No change or addition to these terms, or any additional or different terms on your purchase order, shall be binding on us unless executed in writing by one of our officers.
- If your design calls for green LPI soldermask, we may elect to use the Taiyo LDI green soldermask (PSR 9000 LDI), which is slightly different visually but otherwise has same functionality as regular soldermask.
- If IPC Netlist is not provided in 356 format, Sierra Circuits Inc will create a netlist from the incoming customer Gerber files to generate an electrical test program. In such cases, Sierra cannot guarantee, nor can it be liable for the electrical performance of the boards, since the test program itself is derived from the files submitted.

End of Sales Order Confirmation for order **256044-iQ-1** whose current status is **In process** as of **Dec 13 2012 7:33AM**.

[Back](#)



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