



Sierra Proto Express

1108, West Evelyn Ave., Sunnyvale, CA 94086
 Tel: 408-735-7137 Fax: 408-735-1408
 www.protoexpress.com

Quotation

Customer: Brookhaven National Laboratory	Quote Number: Q19864-1
	Quote Date: Nov 29 2006 Quote Valid Till: Dec 29 2006

Buyer: Andrey Sukhanov
 sukhanov@bnl.gov
 Tel: (631)344-7119 Fax:

Address: Bldg 555
 Upton, New York 11973
 United States

Payment Terms: NET 30
 PART NUMBER: **CAR7 REV: 4**

Layers 3	Indv Brd Dimensions 18.464 in x 2.46 in	Array No
ROHS compliant No	Minimum Space (Outer layer) 6 mils	Silk Screen Sides Not Applicable
Class 3 No	Minimum Trace (Inner layer) 3.9 mils	Carbon Ink No
Material FR4	Minimum Space (Inner layer) 6.8 mils	Counter Bore No
Finished Thickness 0.02 inches	Controlled Dielectric Yes	Counter Sink No
Thickness Tolerance Plus or Minus 10%#	Controlled Impedance No	Edge Plated Holes No
Minimum Hole Size 0.0079	Etchback No	Edge Plating No
Surface Finish Immersion Gold	Solder Mask Yes	Internal Cut outs/Slots No
Entek No	Solder Mask Type LPI	Extensive route No
Gold Fingers No	Solder Mask Color Green	Route and Retain No
Outer Layer Finish 1 Oz Copper	Solder Mask Sides Top and Bottom	Scoring No
Mixed Copper No	Solder Mask Finish Standard (Semi-Gloss)	Blind vias L1-L2
Inner Copper 1 oz Inners	Silk Screen No	Buried vias No
Minimum Trace (Outer layer) 3.9 mils	Silk Screen Color Not Applicable	Minimum Drill to Copper distance Not Applicable
Number of Holes Per Board 314	Number of Plots 5	

Not sure due to missing information

Internal Rep: Rosy Bagai
 Phone: 800-763-7503 Fax: 408-735-1408
 Email: rosyb@protoexpress.com

Announcing Sierra's 20th Anniversary Vacation Getaway contest. 6 drawings between Oct 1st thru Dec 31st, 2006.
 Place an order and you could win a trip for TWO for 3 days/2 nights.
 Every order gets entered in the contest.
 Visit www.protoexpress.com/contest for details.

Quote Line Item Number	Due Qty	Delivery Days	SubTotal	NRE	Netlist Test	Other	Total
Q19864-1A	10 Board(s)	4 Days	\$4197.50 Unit Price: \$419.75 (Tooling waived)	\$0.0	\$0.0	\$0.00	\$4197.50
Notes: (Testing will be done, but charges waived) 1. Need warpage deviation because of length of board unbalanced construction. 2.Please approve finish board thickness tolerances +/- 0.004".							
Q19864-1B	10 Board(s)	10 Days	\$3766.25 Unit Price: \$376.63 (Tooling waived)	\$0.0	\$0.0	\$0.00	\$3766.25
Notes: (Testing will be done, but charges waived) 1. Need warpage deviation because of length of board unbalanced construction. 2.Please approve finish board thickness tolerances +/- 0.004".							
Q19864-1C	400 Board(s)	10 Days	\$59972.50 Unit Price: \$149.93 (Tooling waived)	\$0.0	\$0.0	\$0.00	\$59972.50
Notes: (Testing will be done, but charges waived) 1. Need warpage deviation because of length of board unbalanced construction. 2.Please approve finish board thickness tolerances +/- 0.004".							

This quote is only valid for 30 days unless otherwise agreed upon in writing by our representatives. Sale subject to limited warranty. 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.

Sierra Proto Express Sales Team: Phone: (800) 763-7503. Files for quotes and orders should be sent directly to files@protoexpress.com; not to your account manager. Any communication or files for Milspec and IPC Class3 quotes and orders should be sent to dedicated email inbox; MilspecFiles@protoexpress.com.
Thank you for the opportunity to quote your PCB needs.

Disclaimer: If IPC Netlist is not provided in 356 format, Sierra Proto Express 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.