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 Fax 218-681-3380

Invoice # 45250298
 U.S. \$

701 Brooks Ave. South, P.O. Box 677, Thief River Falls, MN 56701-0677 USA

Sold To:
 DAN TOMPKINS
 UNIV OF AZ/PHYSICS
 1118 E 4TH ST
 PO BOX 210081
 TUCSON AZ 85721-0001

CUSTOMER 1490252

Bill To:
 DANIEL TOMPKINS
 UNIVERSITY OF ARIZONA
 PHYSICS DEPARTMENT
 1118 E 4TH ST
 TUCSON AZ 85721-0001

Terms Visa	Invoice Date 4-APR-2014	Page 1
Customer Purchase Order		Sales Order 39210343
Back Orders Accepts to 4-MAY-2014		Account 193472
Entered By / Date ZUNI/ 4-APR-2014	Shipped Via UGT	Ship Date 4-APR-2014
Easy to Remember: 1-800-DIGI-KEY		

For Office Use Only	Received INTERNET	VAT/Tax ID	Billing BILL SHIP	Pack List No. 1	Printing Date 4-APR-2014	Currency Type: U.S. \$	MSC # 0
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Idx	Box	Ordered	Cancelled	Shipped	Item Number/Description	Back Order	Unit Price US \$	Amount US \$
1	1	10	0	10	WM8021-ND CONN HOUSING 6POS .100" CRIMP CUST REF #: E VARNES HTSUS: 8536.69.4050 ECCN: EAR99 LEAD: LEAD FREE ROHS: ROHS COMP REACH: REACH UNAFFECTED DEC-2009 COUNTRY/ORIGIN: SINGAPORE CAGE: 27264		.40700	4.07 T
2	1	100	0	100	WM2558-ND CONN SOCKET 22-24AWG .100" TIN CUST REF #: E VARNES HTSUS: 8538.90.8040 ECCN: EAR99 LEAD: LEAD FREE ROHS: ROHS COMP REACH: REACH UNAFFECTED DEC-2009 COUNTRY/ORIGIN: IRELAND CAGE: 1UX99		.04990	4.99 T
3	1	10	0	10	3M10725-ND CABLE TWINAX MINISAS 68POS 1M CUST REF #: MMFE HTSUS: 8544.42.2000 ECCN: EAR99 LEAD: LEAD FREE ROHS: ROHS COMP COUNTRY/ORIGIN: CHINA		24.06500	240.65 T
					BOX 1 SHIPPED UGT WEIGHT 2 LBS 15 OZS (1.33 KG) BOX ID 1Z5674320335111768			
					TOTAL INVOICED			249.71
					SHIPPING CHARGES APPLIED			10.70
					** CHARGES SUBTOTAL **			260.41
					SALES TAX			13.98
					(T INDICATES TAXABLE AMOUNTS)			
					TOTAL CHARGED TO CREDIT CARD			274.39
								U.S. \$\$
					YOUR CREDIT CARD HAS BEEN CHARGED THE ABOVE INDICATED AMOUNT THE ORDER IS COMPLETE			
					REF #: SA # 39210343			

Claims for pricing errors, shortages, and defective product must be reported within 30 days of invoice date.

Contact Customer Service at 1-800-858-3616

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www.digikey.com
 Orders 1-800-344-4539
 Fax 218-681-3380


Invoice # 45250298
 U.S. \$

701 Brooks Ave. South, P.O. Box 677, Thief River Falls, MN 56701-0677 USA

Sold To:

DAN TOMPKINS UNIV OF AZ/PHYSICS 1118 E 4TH ST PO BOX 210081 TUCSON AZ 85721-0001	CUSTOMER	1490252
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Terms Visa	Invoice Date 4-APR-2014	Page 2
Customer Purchase Order		Shipped Via UGT
Easy to Remember: 1-800-DIGI-KEY		

Idx	Box	Ordered	Cancelled	Shipped	Item Number/Description	Back Order	Unit Price US \$	Amount US \$
				Ship To:	DAN TOMPKINS UNIV OF AZ/PHYSICS DEPT 1118 E 4TH ST TUCSON AZ 85721-0000			
				Ship From:	DIGI-KEY CORPORATION 701 BROOKS AVE. SOUTH P.O. BOX 677 THIEF RIVER FALLS MN 56701-0677			
				General	WEB ORDER ID: 103486336			
					These commodities, technology or software were exported from the United States in accordance with the Export Administration regulations. Diversion contrary to U.S. law prohibited.			
				CERTIFICATE OF COMPLIANCE:	The Digi-Key components included in the above shipment are genuine components and were provided by the applicable manufacturer to Digi-Key. Test reports (chemical, physical, electrical, etc., together with results of any tests performed by the manufacturer) are on file (either here or in the plant of the manufacturer) and will be made available upon request. These components have been handled in accordance with the requirements of applicable quality standards. This certification is valid only to the original customer and is not transferable. Contact Customer Service at 800-858-3616 if you have any questions.			
					 Kim Gilbert, Customer Service Manager			
					 Scott Fricke, Director Corporate Quality			

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Contact Customer Service at 1-800-858-3616

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Details for Order #107-7127272-2928207

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Order Placed: September 25, 2013
Amazon.com order number: 107-7127272-2928207
Order Total: \$206.70

Shipping Now

Items Ordered	Price
6 of: 3M High Routability Internal miniSAS Cable Assembly, 8F68-AAG105- 1.00, 1 meter Condition: New Sold by: 3McablesDirect (seller profile)	\$31.87

Shipping Address:

William Hart
 University of Arizona - Physics
 1118 E 4th st
 Tucson, Arizona 85721
 United States

Item(s) Subtotal: \$191.22
 Shipping & Handling: \$351.49
 Super Saver Discount: -\$351.49

 Total before tax: \$191.22
 Sales Tax: \$14.52

Shipping Speed:

FREE Super Saver Shipping

Total for This Shipment: \$205.74

Payment information

Payment Method:

Visa | Last digits: 8461

Item(s) Subtotal: \$191.22
 Shipping & Handling: \$351.49
 Super Saver Discount: -\$351.49

Billing address

William Hart
 University of Arizona - Physics
 1118 E 4th st
 Tucson, Arizona 85721
 United States

Total before tax: \$191.22
 Estimated tax to be collected: \$15.48

Grand Total: \$206.70

To view the status of your order, return to [Order Summary](#).

Please note: This is not a VAT invoice.

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Item	Qty	Part Number	Description	Unit Cost
1	1	AXK5SA3277YG	CONN SOCKET BRD/BRD .5MM 130POS	\$5.97
2	1	ACM9070-701-2PL-TL01	CHOKER COMMON MODE 700 OHM 5A SMD	\$2.06
3	2	734151471	CONN JACK MMCX STR PCB	\$3.10
4	1	757830332	CONN RCPT IPASS R/A 68POS SMD	\$12.62
5	16	ECJ-ZEB0J104K	CAP CER .10UF 50V X7R 20% 040	\$0.30
6	18	ECJ-0EB1A105M	CAP CERAMIC 1UF X5R 0402	\$0.20
7	20	ECJ-0EB1A475M	CAP CERAMIC 4.7UF X5R 0402	\$0.29
8	18	C0402C103K4RACTU	0402 Ceramic Cap X7R	\$0.06
9	23	C1005X7R1H104M	CAP CER .10UF 50V X7R 20% 040	\$0.30
10	2	C2012X7R1E475K	CAP CER 4.7UF 25V 10% X7R 0805	\$0.56
11	9	C1210C476M9RACTU	CAP CER 47UF 6.3V 20% X7R 1210	\$2.42
12	4	ECH-U1C104JX5	CAP PPS FILM 0.1UF 16VDC 1210	\$1.04
13	5	BLM21PG221SN1D	Surface Mount Ferrite Bead	\$0.06
14	1	0154001.DR	Fust	\$2.37
15	1	LTST-C170GKT	LED GREEN CLEAR 0805 SMD	\$0.11
16	3	EPA.00.250.NTN	CONN JACK STR 50 OHM PCB	\$15.93
17	16	NUP4114UPXV6T1G	TVS DIODE 5.5VWM 10VC SOT563	\$0.37
18	1	PJ-002A	CONN POWER JACK 2.1MM	\$0.04
19	1	MCP1826S-2502E/DB	IC LDO REG 1A 2.5V SOT223-3	\$0.74
20	4	LT3080EMS8E#TRPBF	IC REG LDO ADJ 1.1A 8MSOP	\$4.50
21	128	CRCW020110R0FNED	RES 10.0 OHM 1/20W 1% 0201 SMD	\$0.05
22	11	ERJ-2RKF1000X	RES 100 OHM 1/10W 1% 0402 SMD	\$0.09
23	3	RC0402JR-070RL	RES 0.0 OHM 1/16W 5% 0402 SMD	\$0.07
24	4	ERJ-2RKF1213X	Resistor 0402 Thick Film	\$0.10
25	7	DNS	Resistor 0402 Thick Film	\$0.09
26	1	ERJ-6ENF1000V	0805 Resistor 1/8W Thick Film	\$0.08
27	12		0805 Resistor 1/8W Thick Film	\$0.08
28	4	ERJ-6GEY0R00V	0805 Resistor 1/8W Thick Film	\$0.08
29	4	PT1206FR-070R1L	RES 0.1 OHM 0.25W 1% 1206 SMD	\$0.54
30	1	SY54016ARMG TR	RCVR/LINE DVR CML Low Voltage	\$6.88
31	1	VMM2_V6	VMM2	
32	1	530FB40M0790DG	OSC XO 40.0790 MHZ 2.5V LVDS SMD	\$10.44

Totals

Ext Cost	Build Cost
\$5.97	\$59.70
\$2.06	\$20.60
\$6.20	\$62.00
\$12.62	\$126.20
\$4.80	\$48.00
\$3.60	\$36.00
\$5.80	\$58.00
\$0.99	\$9.90
\$6.90	\$69.00
\$1.12	\$11.20
\$21.78	\$217.80
\$4.16	\$41.60
\$0.30	\$3.00
\$2.37	\$23.70
\$0.11	\$1.10
\$47.79	\$477.90
\$5.92	\$59.20
\$0.04	\$0.38
\$0.74	\$7.40
\$18.00	\$180.00
\$6.40	\$64.00
\$0.99	\$9.90
\$0.20	\$1.98
\$0.40	\$4.00
\$0.63	\$6.30
\$0.08	\$0.80
\$0.96	\$9.60
\$0.32	\$3.20
\$2.16	\$21.60
\$6.88	\$68.80
\$0.00	\$0.00
\$10.44	\$104.40
180.726	\$1,807.26



Advanced Assembly
 20100 East 32nd Parkway
 Suite 225
 Aurora, CO 80011

Invoice

Date	Invoice #
8/30/2012	18431

PAID
08/30/2012

Bill To	Ship To
University of Arizona Dept of Physics 1118 E 4th St Tucson, AZ 85721 Attn: Joel Steinberg	University of Arizona Dept of Physics 1118 E 4th St Tucson, AZ 85721 Attn: Joel Steinberg

S.O. No.	P.O. No.	Terms	Due Date	Rep	Ship Date	Ship Via
31319-14733	Job # 31319	Due on receipt	8/30/2012	ES	8/30/2012	UPS
Item	Description	Ordered	Prev. Inv...	Invoiced	Rate	Amount
PCB Board Assembly	Surface Mount and/or Through-Hole Component Placement onto printed circuit board	20	0	20	134.75	2,695.00
Steel Stencil	Steel Solder Paste Stencil, 5 mil foil; Framed case	1	0	1	400.00	400.00
Set Up Charge	Set up For Job Assembly	1	0	1	150.00	150.00
Order Handling Fee	Packaging and Handling Fee	1	0	1	50.00	50.00
Shipping	Shipping Charges for completed board(s)--Prepay and Add to Invoice--FEDEX				68.75	68.75

Subtotal		\$3,363.75
Sales Tax (0.0%)		\$0.00
Total		\$3,363.75
Payments/Credits		\$-3,363.75
Balance Due		\$0.00



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Part #: Budgetary_MMFE	Revision: 1B	Date: 3/20/2014	Quote #: 3793631
University Of Arizona			

CUSTOM SPEC Price Matrix: (Qty = Pieces, Not Arrays)

- The Custom Spec Matrix reflects pricing for the **EXACT SPECS** you **QUOTED**.
- All files receive full CAM review and inspection to IPC-A-600, Class 2 or 3 standards based on customer request and quote.
- INCLUDES UL markings and date codes. 94V-0 is added if requested at time of order entry or if noted in files. Finished hole tolerance +/- .003" (if requested). Unit price does not include shipping and handling. AC Terms and Conditions apply.

Qty	SameDay	1-day	2-day	3-day	4-day	1-week	2-week	3-week	4-week
5	N/A	N/A	N/A	N/A	N/A	\$576.67	\$494.72	\$412.76	\$330.81
10	N/A	N/A	N/A	N/A	N/A	\$288.34	\$247.36	\$206.39	\$165.41
50	N/A	N/A	N/A	N/A	N/A	\$86.77	\$74.42	\$62.07	\$49.71
150	N/A	N/A	N/A	N/A	N/A	\$59.28	\$50.83	\$42.37	\$33.92
Tooling NRE = \$325.00 (Tooling waived when re-ordered)						Testing = \$175.00			

* ET charges shown above do not include Hi-Pot test charges.

Rogers 4003 subject to material availability

Immersion Gold orders placed as 1-day turns must be processed per the following schedule to ensure timely shipment and to avoid additional charges:
 0 - 2 layers: NLT 3:00 pm MT.
 3 - 10 layers: NLT 12:00 noon MT

Part #	Budgetary_MMFE	Revision #	1B	Layer Count	6
X Dimension	2	Y Dimension	4	Array	<input type="checkbox"/>
Tab-Rout?	<input type="checkbox"/>	Scoring?	<input type="checkbox"/>		
Material Type	Rogers 4003	Finish Thickness	0.062	Finish Plating	Immersion Gold
Gold Fingers?	None	Copper Wt. (Outer)	1	Copper Wt. (Inner)	1
SolderMaskType	LPI	Soldermask	Both Sides	Soldermask Color	Green
Min. Trace/Space	0.006				
SmallestHoleSize	0.01	Silkscreen	Both Sides	Silkscreen Color	White
Top SMD Pads	2000	Bottom SMD Pads	1000	Min. Pitch	0.025
Certification &	IPC Class 2	(Pricing Subject To File Review)		<input type="checkbox"/> CAM Review (C3)	Qualification:
	<input type="checkbox"/> AS9100?	(AS9102 FAI \$250.00 if applicable)			
Additional Attributes:	<input type="checkbox"/> Controlled Dielectric?	<input type="checkbox"/> Controlled Impedance?	(Pricing Subject To File Review)		<input type="checkbox"/> CAM Review (Impedance)
	<input type="checkbox"/> Plated Slots?	<input type="checkbox"/> Plated Edges?	(Pricing Subject To File Review)		<input type="checkbox"/> CAM Review (Edges)
	<input type="checkbox"/> Counterbores?				
	<input type="checkbox"/> Countersinks?				
	<input type="checkbox"/> Castellated Holes?				
Advanced Technologies:	Blind/Buried Vias?	None	Microvias?	None	(Finished hole size <= .006)
	<input type="checkbox"/> Soldermask Plugged Vias?		Via-In-Pad?	Non-Conductive	
Optional Specs:	<input type="checkbox"/> Holes Plated .0015?	# Holes Per Board	0		
	<input type="checkbox"/> Cores < .004?	# Pem Nuts	0		
	<input type="checkbox"/> Etchback?	LPI Legend	None		
	<input type="checkbox"/> Cover Coat?	<input type="checkbox"/> Edge Mill?			
	<input type="checkbox"/> Cavity Process?	<input type="checkbox"/> Laser Rout?			
	<input type="checkbox"/> Controlled Depth Drilling?	<input type="checkbox"/> Unique Serialization?			
	<input type="checkbox"/> Back Drilling?	<input type="checkbox"/> Tetra Etch?			

Quantities:	<input type="text" value="5"/>	<input type="text" value="10"/>	<input type="text" value="50"/>	<input type="text" value="150"/>	ITAR <input type="radio"/> Yes <input checked="" type="radio"/> No
Comments:	<div style="border: 1px solid black; padding: 5px; min-height: 100px;">Budgetary</div>				

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Your saved quote# is SQN-2313.

[You may print this page for reference.]

This quote SQN-2313 for No Touch product was created for Daniel Tompkins (memberID: tompkins) on May 14 2014 at 11:56 AM .

Part Number / Revision	Mini-SAS_Adapter / Budgetary	Layers	4 Layers	Dimensions	2.5" x 2.5"
Turn Time	4 Days	Quantity	15	Unit Price	\$60.95
				Total Price	\$914.25

Email Notes: Notouch

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Build Qty **10**

Item	Qty	Part Number	Description	Cost	Ext Cost	Build Cost
1	1	875520807	CONN RECEPT RT ANG 80POS 1.27MM	8.58	8.58	85.8
2	1	757830332	CONN RCPT IPASS R/A 68POS SMD	12.62	12.62	126.2
3	12	DNS	Exposed pad on PCB	0	0	0
Totals					21.2	212