



701 Brooks Ave South,
PO Box 677
Thief River Falls, MN 56701-0677
USA

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

Invoice # 77524394
USD \$

Bill To:
MBARI
MONTEREY BAY AQUARIUM RESEARCH INSTITUTE
ACCOUNTS PAYABLE
7700 SANDHOLDT RD
MOSS LANDING CA 95039-0628

Ship To:
DUANE R THOMPSON
MONTEREY BAY AQUARIUM RESEARCH INSTITUTE
7700 SANDHOLDT RD BLDG A
MOSS LANDING CA 95039-0000

Salesorder / Packlist: 67064011 / PL1
Customer: 2168099
Payment Terms: VISA / 0657
Ref #: SA # 67064011
Shipping Method: XECO
Tracking #: 945776491076

Buyer:
DUANE R THOMPSON
MONTEREY BAY AQUARIUM RESEARCH INSTITUTE
7700 SANDHOLDT RD
MOSS LANDING CA 95039-0000

Ship From:
DIGI-KEY ELECTRONICS
701 BROOKS AVE. SOUTH
P.O. BOX 677
THIEF RIVER FALLS MN 56701-0677

Order Source:	Order Date:	Invoice Date:	Ship Date:	Document Date:
INTERNET	07-Dec-2020	07-Dec-2020	07-Dec-2020	07-Dec-2020/AUTO

Line Item	Ordered	Cancelled	Shipped	Item Number/ Description	Unit Price USD \$	Amount USD \$
1	150	0	150	PART: 490-3285-1-ND DESC: CAP CER 0.1UF 100V X7R 0603 CUST: 38 MFG : Murata Electronics (VA) / GRM188R72A104KA35D COO : JAPAN ECCN: EAR99 HTSUS: 8532.24.0020 ROHS3 COMP	0.09740	14.61 T
2	50	0	50	PART: 587-5956-1-ND DESC: CAP CER 1UF 50V X7R 0603 CUST: 13 MFG : Taiyo Yuden (VA) / UMK107AB7105MA-T COO : MALAYSIA ECCN: EAR99 HTSUS: 8532.24.0020 ROHS3 COMP	0.13500	6.75 T
3	10	0	10	PART: 490-5402-1-ND DESC: CAP CER 0.22UF 50V X7R 0603 CUST: 1 MFG : Murata Electronics (VA) / GCM188R71H224KA64D COO : JAPAN ECCN: EAR99 HTSUS: 8532.24.0020 ROHS3 COMP	0.12800	1.28 T
4	50	0	50	PART: 587-3167-1-ND DESC: CAP CER 10UF 50V X7R 1210 CUST: 12 MFG : Taiyo Yuden (VA) / UMK325AB7106KM-T COO : SOUTH KOREA ECCN: EAR99 HTSUS: 8532.24.0020 ROHS3 COMP	0.46200	23.10 T
5	50	0	50	PART: 490-3285-1-ND DESC: CAP CER 0.1UF 100V X7R 0603 CUST: 12 MFG : Murata Electronics (VA) / GRM188R72A104KA35D COO : JAPAN ECCN: EAR99 HTSUS: 8532.24.0020 ROHS3 COMP	0.11540	5.77 T



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6	25	0	25	PART: 641-1088-1-ND DESC: TVS DIODE 5V 15V 0603/S0D523F CUST: 6 MFG : Comchip Technology (VA) / CPDU5V0 COO : TAIWAN ECCN: EAR99 HTSUS: 8541.10.0080 ROHS3 COMP REACH UNAFFECTED Jan-2017	0.33600	8.40 T
7	25	0	25	PART: 641-1635-1-ND DESC: TVS DIODE 3.3V 9.8V 0402C CUST: 6 MFG : Comchip Technology (VA) / ACPDQC3V3T-HF COO : TAIWAN ECCN: EAR99 HTSUS: 8541.10.0080 ROHS3 COMP REACH UNAFFECTED Jan-2017	0.25600	6.40 T
8	10	0	10	PART: CDSOD323-T12SCCT-ND DESC: TVS DIODE 12V 29.5V S0D323 CUST: 2 MFG : Bourns Inc. (VA) / CDSOD323-T12SC COO : PHILIPPINES ECCN: EAR99 HTSUS: 8541.10.0080 ROHS3 COMP REACH UNAFFECTED Jan-2017	0.49500	4.95 T
9	10	0	10	PART: VBUS05L1-DD1-G-08CT-ND DESC: TVS DIODE 5.5V 17V LLP1006-2M CUST: 1 MFG : Vishay Semiconductor Diodes Division (VA) / VBUS05L1-DD1-G-08 COO : CHINA ECCN: EAR99 HTSUS: 8541.10.0080 ROHS3 COMP REACH UNAFFECTED Jan-2017 Section 301 Tariff	0.27500	2.75 T 0.28
10	15	0	15	PART: 641-1680-1-ND DESC: TVS DIODE 5V 17V 0603 CUST: 3 MFG : Comchip Technology (VA) / CPDU5V0C-HF COO : TAIWAN ECCN: EAR99 HTSUS: 8541.10.0080 ROHS3 COMP REACH UNAFFECTED Jan-2017	0.25000	3.75 T
11	15	0	15	PART: 296-25281-1-ND DESC: TVS DIODE 13V SC70-3 CUST: 3 MFG : Texas Instruments (VA) / TPD2E007DCKR COO : THAILAND ECCN: EAR99 HTSUS: 8541.10.0080 ROHS3 COMP REACH UNAFFECTED Jan-2019	0.58100	8.72 T
12	10	0	10	PART: CUS10S30H3FCT-ND DESC: DIODE SCHOTTKY 30V 1A USC CUST: 1 MFG : Toshiba Semiconductor and Storage (VA) / CUS10S30,H3F COO : THAILAND ECCN: EAR99 HTSUS: 8541.10.0080 ROHS COMP	0.25600	2.56 T



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13	10	0	10	PART: 732-4984-1-ND CUST: 1 MFG : Würth Elektronik (VA) / 150080RS75000 COO : CHINA ECCN: EAR99 HTSUS: 8541.40.2000 ROHS3 COMP REACH UNAFFECTED Jan-2017 Section 301 Tariff	0.18000	1.80 T
14	5	0	5	PART: H2851-ND CUST: 1 MFG : Hirose Electric Co Ltd / DF11-6DP-2DSA(01) COO : JAPAN ECCN: EAR99 HTSUS: 8536.69.4040 ROHS COMP Mercury: Cert on File. For more information contact Environmental@DigiKey.com	0.78000	3.90 T
15	15	0	15	PART: 952-1024-5-ND CUST: 3 MFG : Harwin Inc. / M80-5400642 COO : UNITED KINGDOM ECCN: EAR99 HTSUS: 8536.69.4040 ROHS3 COMP REACH UNAFFECTED Jun-2020	16.83800	252.57 T
16	25	0	25	PART: 490-16524-6-ND CUST: 5 MFG : Murata Electronics (VA) / BLM31KN121SN1L COO : JAPAN ECCN: EAR99 HTSUS: 8548.90.0100 ROHS3 COMP	0.47440	11.86 T
17	20	0	20	PART: 952-3391-ND CUST: 5 MFG : Harwin Inc. / M80-4801405 COO : UNITED KINGDOM ECCN: EAR99 HTSUS: 8536.69.8000 ROHS3 COMP REACH UNAFFECTED Jun-2020	16.60600	332.12 T
18	15	0	15	PART: 952-2042-ND CUST: 3 MFG : Harwin Inc. / M80-4600642 COO : UNITED KINGDOM ECCN: EAR99 HTSUS: 8536.69.8000 ROHS3 COMP REACH UNAFFECTED Jun-2020	12.30800	184.62 T
19	5	0	5	PART: H2021-ND CUST: 1 MFG : Hirose Electric Co Ltd / DF11-6DS-2C COO : JAPAN ECCN: EAR99 HTSUS: 8536.69.8000 ROHS COMP Mercury: Cert on File. For more information contact Environmental@DigiKey.com	0.19000	0.95 T



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20	10	0	10	PART: P160BYCT-ND DESC: RES SMD 160 OHM 1% 1/4W 0603 CUST: 1 MFG : PANASONIC ELECTRONIC COMPONENTS (VA) / ERJ-PA3F1600V COO : JAPAN ECCN: EAR99 HTSUS: 8533.21.0030 ROHS3 COMP REACH UNAFFECTED Jan-2017	0.11300	1.13 T
21	20	0	20	PART: P909KHCT-ND DESC: RES SMD 909K OHM 1% 1/10W 0603 CUST: 4 MFG : PANASONIC ELECTRONIC COMPONENTS (VA) / ERJ-3EKF9093V COO : CHINA ECCN: EAR99 HTSUS: 8533.21.0030 ROHS3 COMP REACH UNAFFECTED Jan-2017 Section 301 Tariff	0.03200	0.64 T 0.06
22	10	0	10	PART: 541-1.07MHCT-ND DESC: RES SMD 1.07M OHM 1% 1/10W 0603 CUST: 1 MFG : Vishay Dale (VA) / CRCW06031M07FKEA COO : ISRAEL ECCN: EAR99 HTSUS: 8533.21.0030 ROHS3 COMP	0.03100	0.31 T
23	10	0	10	PART: P301KHCT-ND DESC: RES SMD 301K OHM 1% 1/10W 0603 CUST: 2 MFG : PANASONIC ELECTRONIC COMPONENTS (VA) / ERJ-3EKF3013V COO : CHINA ECCN: EAR99 HTSUS: 8533.21.0030 ROHS3 COMP REACH UNAFFECTED Jan-2017 Section 301 Tariff	0.03200	0.32 T 0.03
24	10	0	10	PART: P909KHCT-ND DESC: RES SMD 909K OHM 1% 1/10W 0603 CUST: 4 MFG : PANASONIC ELECTRONIC COMPONENTS (VA) / ERJ-3EKF9093V COO : CHINA ECCN: EAR99 HTSUS: 8533.21.0030 ROHS3 COMP REACH UNAFFECTED Jan-2017 Section 301 Tariff	0.03200	0.32 T 0.03
25	20	0	20	PART: P100KHCT-ND DESC: RES SMD 100K OHM 1% 1/10W 0603 CUST: 4 MFG : PANASONIC ELECTRONIC COMPONENTS (VA) / ERJ-3EKF1003V COO : CHINA ECCN: EAR99 HTSUS: 8533.21.0030 ROHS3 COMP REACH UNAFFECTED Jan-2017 Section 301 Tariff	0.03200	0.64 T 0.06
26	10	0	10	PART: 541-8.87MHCT-ND DESC: RES SMD 8.87M OHM 1% 1/10W 0603 CUST: 1 MFG : Vishay Dale (VA) / CRCW06038M87FKEA COO : ISRAEL ECCN: EAR99 HTSUS: 8533.21.0030 ROHS3 COMP	0.03100	0.31 T



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27	25	0	25	PART: A140034CT-ND DESC: RES 30.9 KOHMS 0.1% 1/5W 0805 CUST: 6 MFG : TE Connectivity Passive Product (VA) / RQ73C2A30K98TD COO : TAIWAN ECCN: EAR99 HTSUS: 8533.21.0030 ROHS COMP	0.60900	15.23 T
28	25	0	25	PART: P120DBCT-ND DESC: RES SMD 120 OHM 0.1% 1/10W 0603 CUST: 6 MFG : PANASONIC ELECTRONIC COMPONENTS (VA) / ERA-3AEB121V COO : JAPAN ECCN: EAR99 HTSUS: 8533.21.0030 ROHS3 COMP REACH UNAFFECTED Jan-2017	0.26000	6.50 T
29	25	0	25	PART: 541-4407-1-ND DESC: RES 10K OHM 0.1% 1/8W 0603 CUST: 6 MFG : Vishay Dale (VA) / TNPW060310K0BYEN COO : GERMANY ECCN: EAR99 HTSUS: 8533.21.0030 ROHS3 COMP	0.66000	16.50 T
30	10	0	10	PART: 4816P-1-104LFCT-ND DESC: RES ARRAY 8 RES 100K OHM 16SOIC CUST: 2 MFG : Bourns Inc. (VA) / 4816P-1-104LF COO : COSTA RICA ECCN: EAR99 HTSUS: 8533.21.0010 ROHS3 COMP REACH UNAFFECTED Jan-2017	1.05400	10.54 T
31	200	0	200	PART: 36-5002-ND DESC: PC TEST POINT MINIATURE WHITE CUST: 62 MFG : Keystone Electronics / 5002 COO : CHINA ECCN: EAR99 HTSUS: 8536.69.4040 ROHS3 COMP REACH UNAFFECTED Jun-2020 Mercury: Cert on File. For more information contact Environmental@DigiKey.com Section 301 Tariff	0.30150	60.30 T 6.03
32	10	0	10	PART: 24AA512T-I/STCT-ND DESC: IC EEPROM 512K I2C 8TSSOP CUST: 1 MFG : Microchip Technology (VA) / 24AA512T-I/ST COO : THAILAND ECCN: EAR99 HTSUS: 8542.32.0051 ROHS3 COMP REACH UNAFFECTED	1.32000	13.20 T
33	10	0	10	PART: 223-1199-1-ND DESC: SENSOR 17.4PSIA I2C 24B 4-QFN CUST: 1 MFG : TE Connectivity Measurement Specialties (VA) / MS563702BA03-50 COO : MALAYSIA ECCN: EAR99 HTSUS: 9026.20.4000 ROHS COMP	2.65000	26.50 T



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34	50	0	50	PART: 296-11933-1-ND DESC: IC BUF NON-INVERT 5.5V SOT23-5 CUST: 7 MFG: Texas Instruments (VA) / SN74LVC1G17DBVR COO: CHINA ECCN: EAR99 HTSUS: 8542.39.0001 ROHS3 COMP REACH UNAFFECTED Jan-2019 Section 301 Tariff	0.19800	9.90 T
35	20	0	20	PART: ADUM5210CRSZ-ND DESC: DGTL ISO 2500VRMS 2CH GP 20SSOP CUST: 3 MFG: Analog Devices Inc. / ADUM5210CRSZ COO: MALAYSIA ECCN: EAR99 HTSUS: 8542.39.0001 ROHS3 COMP REACH UNAFFECTED Jan-2019	6.94500	138.90 T
36	20	0	0	PART: 1016-1977-ND DESC: IC TRANSCEIVER FULL 2/2 24TSSOP CUST: 3 MFG: MaxLinear, Inc. / SP330EEY-L COO: CHINA ECCN: EAR99 HTSUS: 8542.39.0001 ROHS COMP	3.48200	0.00 T
37	10	0	10	PART: PIC16F18325-I/SL-ND DESC: IC MCU 8BIT 14KB FLASH 14S0IC CUST: 1 MFG: Microchip Technology / PIC16F18325-I/SL COO: THAILAND ECCN: 3A991A2 HTSUS: 8542.31.0001 ROHS3 COMP REACH UNAFFECTED Jan-2017	0.98000	9.80 T
38	10	0	10	PART: 296-24827-1-ND DESC: IC I/O EXPANDER I2C 16B 24TSSOP CUST: 1 MFG: Texas Instruments (VA) / TCA9555PWR COO: MALAYSIA ECCN: EAR99 HTSUS: 8542.39.0001 ROHS3 COMP REACH UNAFFECTED Jan-2019	1.38700	13.87 T
39	10	0	10	PART: LM4120AIM5X-3.0/NOPBCT-ND DESC: IC VREF SERIES 0.2% SOT23-5 CUST: 1 MFG: Texas Instruments (VA) / LM4120AIM5X-3.0/NOPB COO: MALAYSIA ECCN: EAR99 HTSUS: 8542.39.0001 ROHS3 COMP REACH UNAFFECTED Jan-2019	1.90800	19.08 T
40	10	0	10	PART: 296-41182-1-ND DESC: IC ADC 12BIT SIGMA-DELTA 16TSSOP CUST: 1 MFG: Texas Instruments (VA) / ADC128D818CIMTX/NOPB COO: MALAYSIA ECCN: EAR99 HTSUS: 8542.39.0001 ROHS3 COMP REACH UNAFFECTED Jan-2019	4.76000	47.60 T



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41	50	0	50	PART: 478-12671-1-ND DESC: CAP CER 100PF 100V X7R 0603 CUST: 6 MFG : AVX Corporation (VA) / 06031C101JAT2A COO : TAIWAN ECCN: EAR99 HTSUS: 8532.24.0020 ROHS3 COMP	0.02900	1.45 T
42	100	0	100	PART: P10.0KHCT-ND DESC: RES SMD 10K OHM 1% 1/10W 0603 CUST: 12 MFG : PANASONIC ELECTRONIC COMPONENTS (VA) / ERJ-3EKF1002V COO : CHINA ECCN: EAR99 HTSUS: 8533.21.0030 ROHS3 COMP REACH UNAFFECTED Jan-2017 Section 301 Tariff	0.01300	1.30 T
43	25	0	25	PART: P0.0ACT-ND DESC: RES SMD 0 OHM JUMPER 1/8W 0805 CUST: 3 MFG : PANASONIC ELECTRONIC COMPONENTS (VA) / ERJ-6GEY0R00V COO : CHINA ECCN: EAR99 HTSUS: 8533.21.0030 ROHS3 COMP REACH UNAFFECTED Jan-2017	0.03560	0.89 T
44	100	0	0	PART: 541-10SACT-ND DESC: RES SMD 10 OHM 5% 1/3W 0603 CUST: 6 MFG : Vishay Dale (VA) / CRCW060310R0JNEAHP COO : ISRAEL ECCN: EAR99 HTSUS: 8533.21.0030 ROHS3 COMP	0.04600	0.00 T

Sales Amount	1272.09
Tariff Amount	7.79
Total Sales and Tariff	1279.88
Shipping charges applied	10.99
** Charges subtotal **	1290.87
Sales Tax	99.19
Total charged to credit card	1390.06
USD \$	
T indicates taxable amounts	

*** One or more items on this order are controlled for export.**

* These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

Box	Ship Method	Tracking	Weight	Line Item	Part	Quantity
1	XECO	945776491076	0.85 kgs / 1 lbs 14 oz	1	490-3285-1-ND	150
				2	587-5956-1-ND	50



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				3	490-5402-1-ND	10
				4	587-3167-1-ND	50
				5	490-3285-1-ND	50
				6	641-1088-1-ND	25
				7	641-1635-1-ND	25
				8	CDS0D323-T12SCCT-ND	10
				9	VBUS05L1-DD1-G-08CT-ND	10
				10	641-1680-1-ND	15
				11	296-25281-1-ND	15
				12	CUS10S30H3FCT-ND	10
				13	732-4984-1-ND	10
				14	H2851-ND	5
				15	952-1024-5-ND	15
				16	490-16524-6-ND	25
				17	952-3391-ND	20
				18	952-2042-ND	15
				19	H2021-ND	5
				20	P160BYCT-ND	10
				21	P909KHCT-ND	20
				22	541-1.07MHCT-ND	10
				23	P301KHCT-ND	10
				24	P909KHCT-ND	10
				25	P100KHCT-ND	20
				26	541-8.87MHCT-ND	10
				27	A140034CT-ND	25
				28	P120DBCT-ND	25
				29	541-4407-1-ND	25
				30	4816P-1-104LFCT-ND	10
				31	36-5002-ND	200
				32	24AA512T-I/STCT-ND	10
				33	223-1199-1-ND	10
				34	296-11933-1-ND	50
				35	ADUM5210CRSZ-ND	20
				37	PIC16F18325-I/SL-ND	10
				38	296-24827-1-ND	10



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				39	LM4120AIM5X-3.0/NOPBCT-ND	10
				40	296-41182-1-ND	10
				41	478-12671-1-ND	50
				42	P10.0KHCT-ND	100
				43	P0.0ACT-ND	25

General - WEB ORDER ID: 315057130

CERTIFICATE OF COMPLIANCE:

The Digi-Key or supplier direct ship products included in the above shipment were purchased from the original manufacturer or through the manufacturer's authorized distribution. The original manufacturer warrants and certifies that the products they produce meet their specifications. Test reports (chemical, physical, electrical, etc.) supporting their certification are on file (either at Digi-Key, the supplier or in the plant of the manufacturer) and will be made available upon request. This document is evidence of Conformity that this shipment meets the requirements of Digi-Key's Quality Management System and/or Purchase Order requirements agreed on between the customer and Digi-Key. This certification is valid only to the original customer and is not transferable.

Marie Sander, Manager, Customer Service

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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