

ECE Department Material Request

Course: ECE 492
Professor: Nadovich/Schmult

Req Number: 33

Requested By: TSI (Rachel)
Requested Date: 30-Mar-17
Ship By: Ground

Vendor: Digikey
Web Site: <http://www.digikey.com/>
Phone: 218-681-6674

#	Ref	Vendor PN	Manufacturer PN	Description	Quantity	Unit Price	Total Price	Rcvd
1	U13	102-3865-ND	PDO10-Q24-S5-D	DC/DC CONVERTER 5V 10W	2	\$25.8200	\$51.64	
2	U1	102-2728-ND	PDM2-S24-S12-S	CONVERT DC/DC 2W 12V 167MA OUT	2	\$5.7100	\$11.42	
3	SW1	1715-1676-1-ND	1.14100.5030000	SWITCH PUSH SPST-NO 0.1A 42V	3	\$2.4000	\$7.20	
4	SW2	296-39512-1-ND	TS5A3159QDBVRQ1	IC ANLG SW SPDT SOT23-6	3	\$0.9800	\$2.94	
5	U8	296-40259-1-ND	LM95071QIMFX/NOPB	IC GATE NAND 1CH 8-INP 14-SOIC	3	\$2.2800	\$6.84	
6	U4	296-4180-1-ND	74ACT11030DR	SENSOR TEMPERATURE SPI SOT23-5	3	\$2.9000	\$8.70	
7	R44	311-120CRCT-ND	RC0805FR-07120RL	RES SMD 120 OHM 1% 1/8W 0805	25	\$0.0136	\$0.34	
8	R70	311-47.0KCRCT-ND	RC0805FR-0747KL	RES SMD 47K OHM 1% 1/8W 0805	25	\$0.0136	\$0.34	
9	C5, C6	399-1108-1-ND	C0805C100J5GACTU	CAP CER 10PF 50V NPO 0805	25	\$0.0532	\$1.33	
10	SW3	401-2001-ND	JS202011CON	SWITCH SLIDE DPDT 300MA 6V	5	\$0.4100	\$2.05	
11	D3	475-1278-1-ND	LS R976-NR-1	LED RED DIFFUSED 0805 SMD	10	\$0.1900	\$1.90	
12	D1	475-1410-1-ND	LG R971-KN-1	LED GREEN DIFFUSED 0805 SMD	10	\$0.1800	\$1.80	
13	D2	475-2560-1-ND	LY R976-PS-36	LED YELLOW DIFFUSED 0805 SMD	10	\$0.2530	\$2.53	
14	C10, C11, C19	490-10515-1-ND	GRM21BR6YA106ME43L	CAP CER 10UF 35V X5R 0805	10	\$0.2510	\$2.51	
15	C24	490-3550-1-ND	GRM55DR72E105KW01L	CAP CER 1UF 250V X7R 2220	3	\$0.8500	\$2.55	
16	C4	490-6538-1-ND	GRM32ER61C476KE15K	CAP CER 47UF 16V X5R 1210	3	\$0.8600	\$2.58	
17	U6, U18	497-10252-1-ND	TS9121YDT	IC OPAMP GP 1.4MHZ RRO 8SO	6	\$1.5400	\$9.24	
18	U22	497-2271-1-ND	TS3721DT	IC COMP LP DUAL CMOS VOLT 8 SOIC	4	\$0.6200	\$2.48	
19	D4	516-1445-1-ND	HSMR-C170	LED BLUE DIFFUSED 0805 SMD	10	\$0.6930	\$6.93	
20	U19, U20	516-2578-5-ND	ACPL-C870-000E	IC OPAMP ISOLATION 100KHZ 8SO	4	\$5.3900	\$21.56	
21	C3	587-1293-1-ND	EMK212BJ225KG-T	CAP CER 2.2UF 16V X5R 0805	10	\$0.1140	\$1.14	
22	L1	587-2004-1-ND	NR8040T101M	FIXED IND 100UH 1A 377 MOHM SMD	3	\$0.6000	\$1.80	
23	CON1	609-4054-ND	20021521-00010T1LF	CONN HEADER 10POS DUAL SHRD SMD	2	\$1.1100	\$2.22	
24	Y1	887-1741-1-ND	7A-10.000MAAE-T	CRYSTAL 10.000MHZ 12PF SMD	3	\$0.6600	\$1.98	
25	P1	A113980-ND	556881-2	CONN RCPT 2POS 11.18MM PCB SLDR	2	\$7.1300	\$14.26	
26	U7	AT90CAN128-16AURCT-ND	AT90CAN128-16AUR	IC MCU 8BIT 128KB FLASH 64TQFP	3	\$7.6600	\$22.98	
27	U16	LTC3638EMSE#PBF-ND	LTC3638EMSE#PBF	IC REG BUCK ADJ 0.25A 16MSOP	3	\$7.7900	\$23.37	
28	U10	MCP2551-1/SN-ND	MCP2551-1/SN	IC TRANSCEIVER CAN HI-SPD 8-SOIC	3	\$1.0500	\$3.15	
29	U21	MCP6001T-I/OTCT-ND	MCP6001T-I/OT	IC OPAMP GP 1MHZ RRO SOT23-5	4	\$0.2500	\$1.00	
30	U2	MCP6002T-I/SNCT-ND	MCP6002T-I/SN	IC OPAMP GP 1MHZ RRO 8SOIC	4	\$0.3400	\$1.36	
31	U3, U17	MCP6004T-I/SLCT-ND	MCP6004T-I/SL	IC OPAMP GP RRO 1MHZ 14-SOIC	6	\$0.4500	\$2.70	
32	O2, O3	MMBF170CT-ND	MMBF170	MOSFET N-CH 60V 500MA SOT-23	10	\$0.2590	\$2.59	
33	R37	P1.00KCCT-ND	ERJ-6ENF1001V	RES SMD 1K OHM 1% 1/8W 0805	25	\$0.0264	\$0.66	
34		P10.0KCCT-ND	ERJ-6ENF1002V	RES SMD 10K OHM 1% 1/8W 0805	100	\$0.0148	\$1.48	
35	R24, R30	P100KCCT-ND	ERJ-6ENF1003V	RES SMD 100K OHM 1% 1/8W 0805	25	\$0.0264	\$0.66	
36	R10, R36	P137KCCT-ND	ERJ-6ENF1373V	RES SMD 137K OHM 1% 1/8W 0805	25	\$0.0264	\$0.66	
37	R77	P196KCCT-ND	ERJ-6ENF1960V	RES SMD 196 OHM 1% 1/8W 0805	25	\$0.0264	\$0.66	
38	R25, R26	P2.00KCCT-ND	ERJ-6ENF2001V	RES SMD 2K OHM 1% 1/8W 0805	25	\$0.0264	\$0.66	
39	R32, R34	P4.75KCCT-ND	ERJ-6ENF4751V	RES SMD 4.75K OHM 1% 1/8W 0805	25	\$0.0264	\$0.66	
40	R33, R79, R81, R82, R83	P499DACT-ND	ERA-6AEB4990V	RES SMD 499 OHM 0.1% 1/8W 0805	25	\$0.2096	\$5.24	
41	R1, R9	P665KCCT-ND	ERJ-6ENF6653V	RES SMD 665K OHM 1% 1/8W 0805	25	\$0.0264	\$0.66	
42	R76	P750KCCT-ND	ERJ-6ENF7503V	RES SMD 750K OHM 1% 1/8W 0805	25	\$0.0264	\$0.66	
43	R38, R80	P9.31KCCT-ND	ERJ-6ENF9311V	RES SMD 9.31K OHM 1% 1/8W 0805	25	\$0.0264	\$0.66	
44	D5	SK310A-LTPMSCT-ND	SK310A-LTP	DIODE SCHOTTKY 100V 3A DO214AC	4	\$0.6000	\$2.40	
45	U11, U12, U23, U24, U27, U9	TLP293(GB-TPLECT-ND	TLP293(GB-TPL,E	OPTOISOLATOR 3.75KV TRANS 4-SO	25	\$0.3080	\$7.70	
46	P2	WM14741-ND	906631201	QF50 SRD HDR VT .1AU 20POS	2	\$2.3100	\$4.62	
47	J5	WM3789CT-ND	855135002	CONN MOD JACK 6P6C VERT UNSHLD	2	\$1.1600	\$2.32	
48	J1	WM4128-ND	705430112	CONN HEADER 8POS .100 VERT 30AU	2	\$1.8800	\$3.76	
49	J4	WM4802-ND	705430003	CONN HEADER 4POS .100 VERT GOLD	2	\$0.9400	\$1.88	
50	P3	WM8632-ND	905711141	CONN HEADER 14POS 2.54MM VERT	2	\$2.4000	\$4.80	
51	JP1	Z5375-ND	XG8V-0331	JUMPER PLUG 3POS SING ROW	4	\$0.2600	\$1.04	
52	Q1	ZVP4525GCT-ND	ZVP4525GTA	MOSFET P-CH 250V 0.265A SOT223	4	\$0.7100	\$2.84	
53	U5	LM7810ACT-ND	LM7810ACT	IC REG LDO 10V 1A TO220-3	4	\$0.6400	\$2.56	
54	R12, R15, R27	311-150CRCT-ND	RC0805FR-07150RL	RES SMD 150 OHM 1% 1/8W 0805	50	\$0.0104	\$0.52	
55	C28, C29, C30, C41, C46, C47	399-1122-1-ND	C0805C101J5GACTU	CAP CER 100PF 50V NPO 0805	25	\$0.0368	\$0.92	
56	R61, R65, R67, R68	P150KCCT-ND	ERJ-6ENF1503V	RES SMD 150K OHM 1% 1/8W 0805	50	\$0.0200	\$1.00	
57	R45, R47, R49, R53	P16KACT-ND	ERJ-6GEYJ163V	RES SMD 16K OHM 5% 1/8W 0805	50	\$0.0136	\$0.68	
58	R54, R55, R58, R64, R66	P24.9KCCT-ND	ERJ-6ENF2492V	RES SMD 24.9K OHM 1% 1/8W 0805	50	\$0.0200	\$1.00	
59	R16, R19, R2, R20, R51	P249KCCT-ND	ERJ-6ENF2493V	RES SMD 249K OHM 1% 1/8W 0805	50	\$0.0200	\$1.00	
60	R71, R72, R73, R74	P330CCT-ND	ERJ-6ENF3300V	RES SMD 330 OHM 1% 1/8W 0805	25	\$0.0264	\$0.66	
61		350-4050-ND	6823135141F	LED PANEL INDICATOR RED 24V	3	\$6.9700	\$20.91	
62		350-4053-ND	6823235142F	LED PANEL INDICATOR GREEN 24V	3	\$8.9400	\$26.82	

Subtotal:	\$325.52
Shipping/Tax:	
Grand Total:	

Instructor Approval: _____

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