



Bill of Materials

TI DESIGNS

TIDM-1004

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part	PCB Footprint	Note
1	1	C1	100n	CAP CER 0.1UF 10V 20% X5R 0402,Digikey 445-4984-1-ND	Standard		445-4984-1-ND	402	
2	1	C2	100n	CAP CER 0.1UF 10V 20% X5R 0402,Digikey 445-4984-1-ND	Standard		445-4984-1-ND	402	
3	1	C3	10u	CAP TANT 10UF 10V 20% 1206,Digikey 493-2351-1-ND	Standard		493-2351-1-ND	TANT_3216	
4	1	C4	100n	CAP CER 0.1UF 10V 20% X5R 0402,Digikey 445-4984-1-ND	Standard		445-4984-1-ND	402	
5	1	C5	12p	CAP CER 12PF 50V 5% NP0 0402,Digikey 445-1236-1-ND	Standard		445-1236-1-ND	402	
6	1	C6	12p	CAP CER 12PF 50V 5% NP0 0402,Digikey 445-1236-1-ND	Standard		445-1236-1-ND	402	
7	1	C7	100n	CAP CER 0.1UF 10V 20% X5R 0402,Digikey 445-4984-1-ND	Standard		445-4984-1-ND	402	
8	1	C8	100n	CAP CER 0.1UF 10V 20% X5R 0402,Digikey 445-4984-1-ND	Standard		445-4984-1-ND	402	
9	1	C9	100n	CAP CER 0.1UF 10V 20% X5R 0402,Digikey 445-4984-1-ND	Standard		445-4984-1-ND	402	
10	1	C10	4.7u	CAP CER 4.7UF 10V Y5V 0805, Digikey 445-1370-1-ND	Standard		445-1370-1-ND	805	
11	1	C11	22p	CAP CER 22PF 50V 5% NP0 0402, Digikey 445-1239-1-ND	Standard		445-1239-1-ND	402	
12	1	C12	22p	CAP CER 22PF 50V 5% NP0 0402, Digikey 445-1239-1-ND	Standard		445-1239-1-ND	402	
13	1	C13	1n	CAP CER 1000PF 50V 10% X7R 0402,Digikey 445-1256-1-ND	Standard		445-1256-1-ND	402	
14	1	C14	100n	CAP CER 0.1UF 10V 20% X5R 0402,Digikey 445-4984-1-ND	Standard		445-4984-1-ND	402	
15	1	C101	12p	CAP CER 12PF 50V 5% NP0 0402,Digikey 445-1236-1-ND	Standard		445-1236-1-ND	402	
16	1	C102	12p	CAP CER 12PF 50V 5% NP0 0402,Digikey 445-1236-1-ND	Standard		445-1236-1-ND	402	
17	1	C103	100n	CAP CER 0.1UF 10V 20% X5R 0402,Digikey 445-4984-1-ND	Standard		445-4984-1-ND	402	
18	1	C104	10n	CAP CER 10000PF 10V 10% X7R 0402, Digikey 478-7890-1-ND	Standard		478-7890-1-ND	402	
19	1	C105	2.2u	CAP CER 2.2UF 10V 10% X5R 0603, Digikey 587-1253-1-ND	Standard		587-1253-1-ND	603	
20	1	C106	4.7u	CAP TANT 4.7UF 10V 10% 1206,Digikey 478-8221-1-ND	Standard		478-8221-1-ND	TANT_3216	
21	1	C107	1u	CAP CER 1UF 10V 10% X5R 0603, Digikey 445-1321-1-ND	Standard		445-1321-1-ND	603	
22	0	C108	dnp		Standard			402	
23	1	C109	10n	CAP CER 10000PF 10V 10% X7R 0402, Digikey 478-7890-1-ND	Standard		478-7890-1-ND	402	
24	1	C110	10n	CAP CER 10000PF 10V 10% X7R 0402, Digikey 478-7890-1-ND	Standard		478-7890-1-ND	402	
25	1	C111	100n	CAP CER 0.1UF 10V 20% X5R 0402,Digikey 445-4984-1-ND	Standard		445-4984-1-ND	402	
26	1	C112	10n	CAP CER 10000PF 10V 10% X7R 0402, Digikey 478-7890-1-ND	Standard		478-7890-1-ND	402	
27	1	C113	100n	CAP CER 0.1UF 10V 20% X5R 0402,Digikey 445-4984-1-ND	Standard		445-4984-1-ND	402	
28	1	C114	10n	CAP CER 10000PF 10V 10% X7R 0402, Digikey 478-7890-1-ND	Standard		478-7890-1-ND	402	
29	1	C115	33p	CAP CER 33PF 50V 5% NP0 0402,Digikey 445-1241-1-ND	Standard		445-1241-1-ND	402	
30	1	C116	33p	CAP CER 33PF 50V 5% NP0 0402,Digikey 445-1241-1-ND	Standard		445-1241-1-ND	402	
31	1	C117	4.7u	CAP CER 4.7UF 10V 10% X5R 0603,Digikey 445-5170-1-ND	Standard		445-5170-1-ND	603	
32	1	C118	100n	CAP CER 0.1UF 10V 20% X5R 0402,Digikey 445-4984-1-ND	Standard		445-4984-1-ND	402	
33	1	C119	4.7u	CAP CER 4.7UF 10V 10% X5R 0603, Digikey 445-5170-1-ND	TDK	C1608X5R1A475K080AC	445-5170-1-ND	603	
34	1	C120	100n	CAP CER 0.1UF 10V 20% X5R 0402,Digikey 445-4984-1-ND	Standard		445-4984-1-ND	402	
35	1	C121	100n	CAP CER 0.1UF 10V 20% X5R 0402,Digikey 445-4984-1-ND	Standard		445-4984-1-ND	402	
36	1	C122	10n	CAP CER 10000PF 10V 10% X7R 0402, Digikey 478-7890-1-ND	Standard		478-7890-1-ND	402	
37	1	C123	10n	CAP CER 10000PF 10V 10% X7R 0402, Digikey 478-7890-1-ND	Standard		478-7890-1-ND	402	
38	1	C124	100n	CAP CER 0.1UF 10V 20% X5R 0402,Digikey 445-4984-1-ND	Standard		445-4984-1-ND	402	
39	1	C125	10n	CAP CER 10000PF 10V 10% X7R 0402, Digikey 478-7890-1-ND	Standard		478-7890-1-ND	402	
40	1	C126	220n	CAP CER 0.22UF 16V 10% X5R 0402,Digikey 445-4972-1-ND	Standard		445-4972-1-ND	402	
41	1	C127	220n	CAP CER 0.22UF 16V 10% X5R 0402,Digikey 445-4972-1-ND	Standard		445-4972-1-ND	402	
42	1	C128	47u	CAP CER 47UF 10V 20% X5R 1206, Digikey 445-6006-1-ND	Standard		445-6006-1-ND	TANT_3216	
43	1	C129	100n	CAP CER 0.1UF 10V 20% X5R 0402,Digikey 445-4984-1-ND	Standard		445-4984-1-ND	402	
44	1	C130	1u	CAP CER 1UF 10V 10% X5R 0603, Digikey 445-1321-1-ND	Standard		445-1321-1-ND	603	
45	1	C131	100n	CAP CER 0.1UF 10V 20% X5R 0402,Digikey 445-4984-1-ND	Standard		445-4984-1-ND	402	
46	1	C132	1u	CAP CER 1UF 10V 10% X5R 0603, Digikey 445-1321-1-ND	Standard		445-1321-1-ND	603	
47	1	C133	2.2u	CAP CER 2.2UF 10V 10% X5R 0603, Digikey 587-1253-1-ND	Standard		587-1253-1-ND	603	
48	1	C134	100n	CAP CER 0.1UF 10V 20% X5R 0402,Digikey 445-4984-1-ND	Standard		445-4984-1-ND	402	
49	1	C135	100n	CAP CER 0.1UF 10V 20% X5R 0402,Digikey 445-4984-1-ND	Standard		445-4984-1-ND	402	

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part	PCB Footprint	Note
50	1	C136	100n	CAP CER 0.1UF 10V 20% X5R 0402,Digikey 445-4984-1-ND	Standard		445-4984-1-ND	402	
51	1	C137	2.2u	CAP CER 2.2UF 10V 10% X5R 0603, Digikey 587-1253-1-ND	Standard		587-1253-1-ND	603	
52	1	C138	100n	CAP CER 0.1UF 10V 20% X5R 0402,Digikey 445-4984-1-ND	Standard		445-4984-1-ND	402	
53	1	C139	2.2u	CAP CER 2.2UF 10V 10% X5R 0603, Digikey 587-1253-1-ND	Standard		587-1253-1-ND	603	
54	1	C140	4.7u	CAP TANT 4.7UF 10V 10% 1206,Digikey 478-8221-1-ND	Standard		478-8221-1-ND	TANT_3216	
55	1	C141	1u	CAP CER 1UF 10V 10% X5R 0603, Digikey 445-1321-1-ND	Standard		445-1321-1-ND	603	
56	1	C142	100n	CAP CER 0.1UF 10V 20% X5R 0402,Digikey 445-4984-1-ND	Standard		445-4984-1-ND	402	
57	1	C143	100n	CAP CER 0.1UF 10V 20% X5R 0402,Digikey 445-4984-1-ND	Standard		445-4984-1-ND	402	
58	1	C144	2.2u	CAP CER 2.2UF 10V 10% X5R 0603, Digikey 587-1253-1-ND	Standard		587-1253-1-ND	603	
59	1	C145	10n	CAP CER 10000PF 10V 10% X7R 0402, Digikey 478-7890-1-ND	Standard		478-7890-1-ND	402	
60	1	C146	10n	CAP CER 10000PF 10V 10% X7R 0402, Digikey 478-7890-1-ND	Standard		478-7890-1-ND	402	
61	1	C147	10n	CAP CER 10000PF 10V 10% X7R 0402, Digikey 478-7890-1-ND	Standard		478-7890-1-ND	402	
62	1	C148	10n	CAP CER 10000PF 10V 10% X7R 0402, Digikey 478-7890-1-ND	Standard		478-7890-1-ND	402	
63	1	C149	100n	CAP CER 0.1UF 10V 20% X5R 0402,Digikey 445-4984-1-ND	Standard		445-4984-1-ND	402	
64	1	D101	BAS40-05	DIODE SCHOTTKY 40V 120MA TO236AB,Digikey 568-4862-1-ND	NXP	BAS40-05 215	568-4862-1-ND	SOT-23	
65	1	D102	BAS40-05	DIODE SCHOTTKY 40V 120MA TO236AB,Digikey 568-4862-1-ND	NXP	BAS40-05 215	568-4862-1-ND	SOT-23	
66	1	IC101	TPS73533DRB	IC REG LDO 3.3V 0.5A 8SON,Digikey 296-24854-1-ND	TI	TPS73533DRB	296-24854-1-ND		
67	1	IC102	TPD4E004DRY	IC 4CH ESD-PROT ARRAY 6-SON,Digikey 296-23618-1-ND	TI	TPD4E004DRY	296-23618-1-ND	USON	
68	1	IC103	TPS2012DBV	IC OR CTRLR SRC SELECT SOT23-5, Digikey 296-10880-1-ND	TI	TPS2012DBV	296-10880-1-ND	SOT23-5	
69	1	IC104	TPS73533DRB	IC REG LDO 1.8V 0.2A 6WSON, Digikey 296-25213-1-ND	TI	TLV70018DSE	296-25213-1-ND	WSO6N6	
70	1	IC105	TPD4E004DRY	IC TXRX USB 2.0 ULPI 32QFN, Digikey 296-28545-1-ND	TI	TUSB1210RHB	296-28545-1-ND	USON	
71	1	IC106	TM4C1294NCPDT	IC MCU 32BIT	TI	TM4C1294NCPDT	296-38028-ND		
72	1	IC107	LM4040B25DCK	IC VREF SHUNT PREC 2.5V SC-70-5, Digikey 296-20873-1-ND	TI	LM4040B25DCK	296-20873-1-ND	SC70-5	
73	1	IC108	SN74AVCAT245RSV	IC BUS TRANSCVR 4BIT 16-UQFN, Digikey 296-24366-1-ND	TI	SN74AVCAT245RSV	296-24366-1-ND	UQFN-16	
74	1	IC109	SN74AVCAT245RSV	IC BUS TRANSCVR 4BIT 16-UQFN, Digikey 296-24366-1-ND	TI	SN74AVCAT245RSV	296-24366-1-ND	UQFN-16	
75	1	IC110	SN74AVCAT245RSV	IC BUS TRANSCVR 4BIT 16-UQFN, Digikey 296-24366-1-ND	TI	SN74AVCAT245RSV	296-24366-1-ND	UQFN-16	
76	1	IC111	SN74C8TLV3257	IC 4BIT 1-4 FET MUX/DEMUX 16UQFN, Digikey 296-35586-1-ND	TI	SN74C8TLV3257	296-35586-1-ND	UQFN-16	
77	1	J1/J3		CONN HEADER 20POS .100" DUAL, FEMALE with long male leads	CM	CNT-F254-2*10-GS-850-9	to be provided by CM	2X10	
78	1	J2/J4		CONN HEADER 20POS .100" DUAL, FEMALE with long male leads	CM	CNT-F254-2*10-GS-850-9	to be provided by CM	2X10	
79	0	J5	dnp	CONN HEADER .100 DUAL STR 40POS,Digikey S2012E-20-ND	Standard		S2012E-20-ND	0.100 inch x 2 x 20	
80	1	J6		CONN HEADER .100 SINGL STR 3POS,Digikey S1012E-03-ND	Standard		S1012E-03-ND	0.100 inch x 3	
81	1	J7		CONN HEADER .100 SINGL STR 3POS,Digikey S1012E-03-ND	Standard		S1012E-03-ND	0.100 inch x 3	
82	0	JP1	GND	CONN HEADER 2POS .100" SINGL TIN,Digikey SAM1075-02-ND	Standard		SAM1075-02-ND	JP1M	
83	1	JP2	Place Jumper (+5V)	CONN HEADER 2POS .100" SINGL TIN,Digikey SAM1075-02-ND	Standard		SAM1075-02-ND	JP1M	
84	1	JP3	Place Jumper (+3V3)	CONN HEADER 2POS .100" SINGL TIN,Digikey SAM1075-02-ND	Standard		SAM1075-02-ND	JP1M	
85	1	JP4.1	Place Jumper (RTS)	CONN HEADER 2POS .100" SINGL TIN,Digikey SAM1075-02-ND	Standard		SAM1075-02-ND	JP1M	
86	1	JP4.2	Place Jumper (CTS)	CONN HEADER 2POS .100" SINGL TIN,Digikey SAM1075-02-ND	Standard		SAM1075-02-ND	JP1M	
87	1	JP4.3	Place Jumper (RXD)	CONN HEADER 2POS .100" SINGL TIN,Digikey SAM1075-02-ND	Standard		SAM1075-02-ND	JP1M	
88	1	JP4.4	Place Jumper (TXD)	CONN HEADER 2POS .100" SINGL TIN,Digikey SAM1075-02-ND	Standard		SAM1075-02-ND	JP1M	
89	0	JP5.1	SWCLK	CONN HEADER 2POS .100" SINGL TIN,Digikey SAM1075-02-ND	Standard		SAM1075-02-ND	JP1M	
90	0	JP5.2	SWTDIO	CONN HEADER 2POS .100" SINGL TIN,Digikey SAM1075-02-ND	Standard		SAM1075-02-ND	JP1M	
91	0	JP5.3	SWO	CONN HEADER 2POS .100" SINGL TIN,Digikey SAM1075-02-ND	Standard		SAM1075-02-ND	JP1M	
92	0	JP5.4	RST	CONN HEADER 2POS .100" SINGL TIN,Digikey SAM1075-02-ND	Standard		SAM1075-02-ND	JP1M	
93	1	JP8	Place Jumper	CONN HEADER .100 SINGL STR 2POS,Digikey S1012E-02-ND	Standard		S1012E-02-ND	0.100 inch x 2	
94	1	JP9	Place Jumper	CONN HEADER .100 SINGL STR 2POS,Digikey S1012E-02-ND	Standard		S1012E-02-ND	0.100 inch x 2	
95	1	JP10	Place Jumper	CONN HEADER .100 SINGL STR 2POS,Digikey S1012E-02-ND	Standard		S1012E-02-ND	0.100 inch x 2	
96	1	JP11	Place Jumper	CONN HEADER .100 SINGL STR 2POS,Digikey S1012E-02-ND	Standard		S1012E-02-ND	0.100 inch x 2	
97	1	J101	ZX62R-B-5P	CONN RCPT MICRO USB B SMD R/A, Digikey H11574CT-ND	Hirose Electrical Co	ZX62R-B-5P	H11574CT-ND	6x8 mm	
98	1	J102		CONN HEADER 10POS DUAL VERT, Digikey FTSH-105-01-F-D-K-ND	Standard	FTSH-105-01-F-D-K	FTSH-105-01-F-D-K-ND		
99	0	J103	dnp		Standard			0.050 inch x 7	
100	1	L1	4.7uH	INDUCTOR 4.7UH 300MA 0806, Digikey 490-4044-1-ND	Murata	LQH2MCN4R7M02L	490-4044-1-ND	806	
101	1	L101	2.2uH	2.2uH, Tayo Yuden CBC2518T2R2M, Digikey 587-1618-1-ND	Taiyo Yuden	CBC2518T2R2M	587-1618-1-ND	1007	
102	1	LED1	Low Current Red	LED RED CLEAR 0603 SMD,Digikey 160-1181-1-ND	Standard		160-1181-1-ND	603	
103	1	LED2	19-337	LED RGB CLEAR SMD, Everlight 19-337/R6GHBHC-A01/2T	Everlight	19-337/R6GHBHC-A01/2T	19-337/R6GHBHC-A01/2T		
104	1	LED101	Low Current Red	LED RED CLEAR 0603 SMD,Digikey 160-1181-1-ND	Standard		160-1181-1-ND	603	
105	1	LED102	Low Current Green	LED GREEN CLEAR 0603 SMD,Digikey 160-1183-1-ND	Standard		160-1183-1-ND	603	
106	1	MSP1		IC MCU 32BIT	TI	MSP432P401RIPZ	#VALUE!		
107	1	MSP101	MSP430G2452RSA	IC MCU 16BIT 8KB FLASH 16QFN,Digikey 296-28129-1-ND	TI	MSP430G2452RSA	296-28129-1-ND	QFN 16	
108	1	Q1	32.7638 kHz, 7.0pF	MICRO CRYSTAL - MS3V-T1R 32.768KHZ 7.0PF +/-20PPM	Micro Crystal AG	MS3V-T1R	MS3V-T1R 7pF	6.7 x 1.40 mm	
109	1	Q2	48MHz, 12pF	Crystal KX-7T 48MHz 12pF 30/30/50ppm	Standard	Geyer Electronic - 12.88710			

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110	1	Q101	16MHz, 8pF	CRYSTAL 16MHZ 8PF SMD, Digikey 644-1174-1-ND	Standard	NX3225GA-16.000M-STD	644-1174-1-ND		
111	1	R1		RES 0.0 OHM 1/16W 0402 SMD,Digikey 311-0.0JRTR-ND	Standard		311-0.0JRTR-ND	402	
112	1	R2		RES 110 OHM 1/16W 1% 0402 SMD,Digikey 311-110LRCT-ND	Standard		311-110LRCT-ND	402	
113	1	R3		RES 16 OHM 1/10W 5% 0402 SMD, Digikey P16JCT-ND	Standard		P16JCT-ND	402	
114	1	R4		RES 24 OHM 1/16W 5% 0402 SMD, Digikey 311-24JRCT-ND	Standard		311-24JRCT-ND	402	
115	1	R5	91kOhm, 0.1%, 25ppm	RES 91K OHM 1/8W 0.1% 0805 SMD, Digikey P91KDACT-ND	Panasonic	ERA-6AEB913V	P91KDACT-ND	805	
116	1	R6	47k	RES 47.0K OHM 1/16W 1% 0402 SMD,Digikey 311-47.0KLRCT-ND	Standard		311-47.0KLRCT-ND	402	
117	1	R7	470	RES 470 OHM 1/16W 1% 0402 SMD,Digikey 311-470LRCT-ND	Standard		311-470LRCT-ND	402	
118	1	R8	1k	RES 1.0K OHM 1/16W 5% 0402 SMD, Digikey 311-1.0KJRCT-ND	Standard		311-1.0KJRCT-ND	402	
119	0	R101	dnp	RES 220K OHM 1/16W 1% 0402 SMD,Digikey 311-220KLRCT-ND	Standard		311-220KLRCT-ND	402	
120	1	R102		RES 100 OHM 1/16W 1% 0402 SMD, Digikey 311-100LRCT-ND	Standard		311-100LRCT-ND	402	
121	1	R103	10k	RES 10.0K OHM 1/16W 1% 0402 SMD,Digikey 311-10.0KLRCT-ND	Standard		311-10.0KLRCT-ND	402	
122	1	R104		RES 51 OHM 1/16W 5% 0402 SMD, Digikey 311-51JRCT-ND	Standard		311-51JRCT-ND	402	
123	1	R105	1k	RES 1.00K OHM 1/16W 1% 0402 SMD, Digikey 311-1.00KLRCT-ND	Standard		311-1.00KLRCT-ND	402	
124	1	R106		RES 2.0 OHM 1/16W 5% 0402 SMD, Digikey 311-2.0JRCT-ND	Standard		311-2.0JRCT-ND	402	
125	1	R107	47k	RES 47.0K OHM 1/16W 1% 0402 SMD,Digikey 311-47.0KLRCT-ND	Standard		311-47.0KLRCT-ND	402	
126	1	R108	1k	RES 1.0K OHM 1/16W 5% 0402 SMD, Digikey 311-1.0KJRCT-ND	Standard		311-1.0KJRCT-ND	402	
127	1	R109	1k	RES 1.0K OHM 1/16W 5% 0402 SMD, Digikey 311-1.0KJRCT-ND	Standard		311-1.0KJRCT-ND	402	
128	1	R110	1k	RES 1.0K OHM 1/16W 5% 0402 SMD, Digikey 311-1.0KJRCT-ND	Standard		311-1.0KJRCT-ND	402	
129	1	R111	470	RES 470 OHM 1/16W 1% 0402 SMD,Digikey 311-470LRCT-ND	Standard		311-470LRCT-ND	402	
130	1	R112	220k	RES 220K OHM 1/16W 1% 0402 SMD,Digikey 311-220KLRCT-ND	Standard		311-220KLRCT-ND	402	
131	1	R113	220k	RES 220K OHM 1/16W 1% 0402 SMD,Digikey 311-220KLRCT-ND	Standard		311-220KLRCT-ND	402	
132	1	R114	220k	RES 220K OHM 1/16W 1% 0402 SMD,Digikey 311-220KLRCT-ND	Standard		311-220KLRCT-ND	402	
133	1	R115	220k	RES 220K OHM 1/16W 1% 0402 SMD,Digikey 311-220KLRCT-ND	Standard		311-220KLRCT-ND	402	
134	1	R116	4k7	RES 4.7K OHM 1/16W 5% 0402 SMD,Digikey 311-4.7KJRCT-ND	Standard		311-4.7KJRCT-ND	402	
135	1	R117	4k7	RES 4.7K OHM 1/16W 5% 0402 SMD,Digikey 311-4.7KJRCT-ND	Standard		311-4.7KJRCT-ND	402	
136	1	R118	820	RES 820 OHM 1/16W 1% 0402 SMD,Digikey 311-820LRCT-ND	Standard		311-820LRCT-ND	402	
137	1	R119		RES 0.0 OHM 1/16W 0402 SMD,Digikey 311-0.0JRTR-ND	Standard		311-0.0JRTR-ND	402	
138	1	R120	470	RES 470 OHM 1/16W 1% 0402 SMD,Digikey 311-470LRCT-ND	Standard		311-470LRCT-ND	402	
139	0	R121		RES 0.0 OHM 1/16W 0402 SMD,Digikey 311-0.0JRTR-ND	Standard		311-0.0JRTR-ND	402	
140	0	R122		RES 0.0 OHM 1/16W 0402 SMD,Digikey 311-0.0JRTR-ND	Standard		311-0.0JRTR-ND	402	
141	1	R123		RES 33 OHM 1/16W 5% 0402 SMD,Digikey 311-33JRCT-ND	Standard		311-33JRCT-ND	402	
142	1	R124	470	RES 470 OHM 1/16W 1% 0402 SMD,Digikey 311-470LRCT-ND	Standard		311-470LRCT-ND	402	
143	1	R125	10k	RES 10.0K OHM 1/16W 1% 0402 SMD,Digikey 311-10.0KLRCT-ND	Standard		311-10.0KLRCT-ND	402	
144	1	R126	2k2	RES 2.20K OHM 1/16W 1% 0402 SMD,Digikey 311-2.20KLRCT-ND	Standard		311-2.20KLRCT-ND	402	
145	1	R127	3k3	RES 3.30K OHM 1/16W 1% 0402 SMD,Digikey 311-3.30KLRCT-ND	Standard		311-3.30KLRCT-ND	402	
146	1	R128	6k8	RES 6.80K OHM 1/16W 1% 0402 SMD,Digikey 311-6.80KLRCT-ND	Standard		311-6.80KLRCT-ND	402	
147	1	R129	10k	RES 10.0K OHM 1/16W 1% 0402 SMD,Digikey 311-10.0KLRCT-ND	Standard		311-10.0KLRCT-ND	402	
148	0	R130		RES 0.0 OHM 1/16W 0402 SMD,Digikey 311-0.0JRTR-ND	Standard		311-0.0JRTR-ND	402	
149	1	R131		RES 0.0 OHM 1/16W 0402 SMD,Digikey 311-0.0JRTR-ND	Standard		311-0.0JRTR-ND	402	
150	1	R132	330k	RES 330K OHM 1/16W 1% 0402 SMD, Digikey 311-330KLRCT-ND	Standard		311-330KLRCT-ND	402	
151	1	R133	220k	RES 220K OHM 1/16W 1% 0402 SMD,Digikey 311-220KLRCT-ND	Standard		311-220KLRCT-ND	402	
152	0	R134	dnp	RES 220K OHM 1/16W 1% 0402 SMD,Digikey 311-220KLRCT-ND	Standard		311-220KLRCT-ND	402	
153	1	R135	220k	RES 220K OHM 1/16W 1% 0402 SMD,Digikey 311-220KLRCT-ND	Standard		311-220KLRCT-ND	402	
154	1	R136	220k	RES 220K OHM 1/16W 1% 0402 SMD,Digikey 311-220KLRCT-ND	Standard		311-220KLRCT-ND	402	
155	1	R137		RES 0.0 OHM 1/16W 0402 SMD,Digikey 311-0.0JRTR-ND	Standard		311-0.0JRTR-ND	402	
156	1	R138		RES 0.0 OHM 1/16W 0402 SMD,Digikey 311-0.0JRTR-ND	Standard		311-0.0JRTR-ND	402	
157	0	R139	4k87	RES 4.87K OHM 1/16W 1% 0402 SMD, Digikey 541-4.87KLCT-ND	Standard		541-4.87KLCT-ND	402	
158	1	S1	EVQ221304M	SWITCH TACTILE SPST-NO 0.02A 15V,Digikey P12216SCT-ND	Standard		P12216SCT-ND	0.236 x 0.236 inch	
159	1	S2	EVQ221304M	SWITCH TACTILE SPST-NO 0.02A 15V,Digikey P12216SCT-ND	Standard		P12216SCT-ND	0.236 x 0.236 inch	
160	1	S3	EVQ221304M	SWITCH TACTILE SPST-NO 0.02A 15V,Digikey P12216SCT-ND	Standard		P12216SCT-ND	0.236 x 0.236 inch	
161	1	S101		SW SLIDE DPDT 2POS	CM	M096V	to be provided by CM		
162	1	T101	DMG1013UW-7	MOSFET P-CH 20V 820MA SOT323,Digikey DMG1013UW-7DICT-ND	Diodes	DMG1013UW-7	DMG1013UW-7DICT-ND	SOT-323	
163	1	T102	8C850CW-115	TRANSISTOR NPN 45V 100MA SOT323,Digikey 568-6076-1-ND	NXP	8C850CW-115	568-6076-1-ND	SOT-323	
164	1	TP101	TPD4E004DRY	Test Point,Hole, Digikey nothing-to-purchase	Standard		nothing-to-purchase	TP	
165	1	TP102	STD	Test Point,Hole, Digikey nothing-to-purchase	Standard		nothing-to-purchase		
166	1	TP103	STD	Test Point,Hole, Digikey nothing-to-purchase	Standard		nothing-to-purchase		
167	1	TP104	STD	Test Point,Hole, Digikey nothing-to-purchase	Standard		nothing-to-purchase		
168	1	TP105	STD	Test Point,Hole, Digikey nothing-to-purchase	Standard		nothing-to-purchase		
169	1	TP106	STD	Test Point,Hole, Digikey nothing-to-purchase	Standard		nothing-to-purchase		

[illegible]