

SLEEPY_REV_1_0_0

ID	Quantity	Reference	MANUFACTURER	MANUFACTURER PART	DESCRIPTION	STATUS	PACKAGE	SUBSTITUTE	DISTRIBUTOR	PRICE	EXT PRICE
3	99	C1,C2,C3,C4,C10,C11,C12,C13,C14,C15,C16,C17,C18,C21,C24,C25,C27,C28,C30,C31,C32,C33,C37,C38,C39,C40,C41,C42,C43,C44,C45,C46,C47,C48,C49,C50,C51,C52,C53,C54,C55,C56,C57,C58,C59,C60,C61,C62,C63,C64,C65,C66,C67,C68,C69,C70,C71,C72,C73,C74,C75,C76,C77,C78,C79,C80,C81,C82,C83,C84,C85,C86,C90,C91,C93,C95,C96,C100,C101,C102,C105,C107,C108,C109,C110,C111,C112,C113,C114,C115,C116,C117,C118,C119,C120,C121,C123,C124,C125	equivalent	equivalent	Ceramic 0805 X7R 10%	AVAILABLE	0805	GENERIC	DIGI-KEY	\$0.09	\$9.01
4	8	C87,C88,C92,C97,C98,C103,C104,C106	Equivalent	Equivalent	0.33uF, 50V, 10%, X7R, C1210	AVAILABLE	1210	GENERIC	DIGI-KEY	\$1.21	\$9.68
7	4	C6,C35,C89,C94	Kemet	T494B107M006AS	100uF, 20%, 6V, Tant	AVAILABLE	3528	GENERIC	DIGI-KEY	\$1.39	\$5.56
8	2	C7,C36	Equivalent	Equivalent	10pF, 20%, 10V, 0603	AVAILABLE	0603	GENERIC	DIGI-KEY	\$0.03	\$0.06
10	2	C26,C29	Kemet	T494C106K025AS	10uF,25V,10%,Tant	AVAILABLE	6032	GENERIC	DIGI-KEY	\$1.43	\$2.86
11	6	C8,C9,C19,C20,C22,C23	Kemet	C0805C150J5GACTU	15pF, 50V, 5%, Ceramic NPO	AVAILABLE	0805	GENERIC	DIGI-KEY	\$0.08	\$0.47
12	2	C5,C34	Kemet	C2225C105K5RAC	1.0uF, 10%, 50V, X7R	AVAILABLE	2225	GENERIC	DIGI-KEY	\$6.65	\$13.30
17	1	C99	AVX	TAJE686K025R	68uF, 10%, 25V, Tant	AVAILABLE	7343	GENERIC	DIGI-KEY	\$8.25	\$8.25
20	8	J7,J14,J21,J24,J25,J26,J27,J28	Molex	70543-0001	CONN HEADER 2POS .100 VERT GOLD	AVAILABLE	0.100" LS Through		DIGI-KEY	\$1.06	\$8.48
25	3	J6,J8,J10	Amp	104313-2	14 dual row, Vrt header, latch	AVAIL /LEAD			MOUSER	\$7.48	\$22.44
27	1	J9	Molex	87332-1420	14 dual row SMT vert. header	AVAILABLE			MOUSER	\$2.19	\$2.19
28	2	J1,J2	Molex	43160-2102	2 Pin Vert. Pwr Connector	AVAILABLE			DIGI-KEY	\$2.03	\$4.06
30	1	J23	NorComp	172-025-111-001	DB25, PC mount, Vertical	AVAILABLE		172-025-112R001	DIGI-KEY	\$4.67	\$4.67
31	3	J3,J4,J5	Molex	39-30-2047	4pin rt., 5569	AVAILABLE			DIGI-KEY	\$2.81	\$8.43
34	1	JP1	Samtec	ESQ-132-39-G-D	PC104 J/P1 Stackthrough	MADE TO ORDER			SAMTEC	\$8.65	\$8.65
37	7	J15,J16,J17,J18,J19,J20,J22	Molex	70543-0005	6 pin, Vertical, Shrouded, Header	AVAILABLE			DIGI-KEY	\$1.32	\$9.24
38	1	J29	Amp	205734-7	D-Sub 9S Receptacle	AVAILABLE			DIGI-KEY	\$6.54	\$6.54
45	8	D15,D16,D19,D21,D23,D25,D26,D29	Diodes Inc	1N4148WT	SMT Fast Switching Diode	SUBSTITUTE	SOD-523	1N4148WT-7	DIGI-KEY	\$0.38	\$3.04
46	1	D43	Chicago Miniature	5350T1LC	Red Rt. LED	AVAILABLE			DIGI-KEY	\$1.10	\$1.10
47	12	D30,D37,D38,D39,D40,D41,D44,D45,D46,D47,D48,D49	Chicago Miniature	5350T5LC	Green Rt. LED	AVAILABLE			DIGI-KEY	\$1.10	\$13.20
48	1	D42	Chicago Miniature	5350T7LC	Yellow Rt. LED	AVAILABLE			DIGI-KEY	\$1.10	\$1.10

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51	5	D8,D10,D11,D12,D13	Diodes Inc	BAV23C	Dual CC diode	SUBSTITUTE	SOT-23	BAV23C-7-F	DIGI-KEY	\$0.43	\$2.15
52	8	D17,D18,D20,D22,D24,D27,D28,D51	Diodes Inc	BZT52C15S	Zener diode, 15V, 200mW	SUBSTITUTE	SOD-323	BZT52C15S-7-S	DIGI-KEY	\$0.47	\$3.76
53	5	D2,D3,D4,D6,D7	OnSemi	MBR0540	0.5A, 40V, Schottky Barrier	SUBSTITUTE	SOD-123	MBR0540T1G	DIGI-KEY	\$0.26	\$1.30
54	6	D31,D32,D33,D34,D35,D36	Vishay/Siliconix	SST508	Ireg Diode, 45V, 2.4ma	SUBSTITUTE	SOT-23	SST508-E3	MOUSER	\$1.83	\$10.98
59	1	U36	IRF	IPS5551T	High side power switch 100A	AVAIL /LEAD	TO-220		FUTURE ELECT	\$3.22	\$3.22
61	4	Q1,Q2,Q3,Q4	IRF	IRF4905	HEXFET, Pch, -55V, -74A	SUBSTITUTE	TO-220AB	IRF4905PBF	DIGI-KEY	\$3.30	\$13.20
64	5	Q22,Q23,Q24,Q25,Q26	IRF	IRF7501	Dual N-Ch. MOSFET, 20V, 2.4A	SUBSTITUTE	MICRO-8	IRF7501PBF	NEWARK	\$1.71	\$8.55
65	5	Q5,Q7,Q9,Q10,Q12	IRF	IRF7530	N-ch MOSFET, 20V, 0.03	SUBSTITUTE	MICRO-8	IRF7530PBF	NEWARK	\$0.87	\$4.33
67	1	Q15	IRF	IRF7750	Dual P-Channel MOSFET, 20V	SUBSTITUTE	TSSOP-8	IRF7750TRPBF	NEWARK	\$3.06	\$3.06
68	8	Q13,Q14,Q16,Q17,Q18,Q19,Q20,Q21	IRF	IRFL4105	MOSFET,55V,SOT-223	SUBSTITUTE	SOT-223	IRF4105PBF	NEWARK	\$0.82	\$6.54
72	1	Q8	IRF	IRLML2402	N-ch-MOSFET, 20V, SOT-23	SUBSTITUTE	SOT23	IRLML2402TRPBF	DIGI-KEY	\$1.13	\$1.13
78	1	U27	Astrodyne	FDC05-12S33	12v to 3.3V DC-DC	MADE TO ORDER			ASTRODYNE	\$38.00	\$38.00
79	1	U24	Astrodyne	FDC10-12S05	12V to 5V DC-DC	MADE TO ORDER			ASTRODYNE	\$49.00	\$49.00
81	2	U4,U11	Linear	LT1934ES6-1	uPower Step-Down Sw Reg	SUBSTITUTE		LT1934ES6-1#TRMPBF	LINEAR	\$2.68	\$5.36
82	8	U21,U22,U25,U28,U29,U31,U32,U33	Linear	LTC1154CS8	High-side MOSFET Driver	SUBSTITUTE		LTC1154CS8#PBF	DIGI-KEY	\$3.50	\$28.00
83	1	U7	Linear	LTC1694CS5	I2C bus accelerator	SUBSTITUTE	SOT-23-5 DBV	LTC1694CS5#TRMPBF	DIGI-KEY	\$3.16	\$3.16
84	10	U12,U13,U14,U15,U16,U17,U18,U19,U20,U35	TI	MAX3222IPWR	MultiChannel RS-232 Line Driver/Receiver	AVAILABLE	TSSOP-20		DIGI-KEY	\$2.00	\$20.00
85	1	U1	Maxim	MAX4372TESA	High Side Current Sense amp	SUBSTITUTE	SOIC-8	MAX4372TESA+	MAXIM-IC	\$1.34	\$1.34
88	1	U6	Texas Instrument	MSP430F169IPM	MSP430 Microprocessor	AVAILABLE	LQFP-64		MOUSER	\$13.24	\$13.24
92	1	U26	TI	SN74AHCT1G04DBV	Single inverter	AVAILABLE	SOT-23-5 DBV	SN74AHCT1G04DBVR	DIGI-KEY	\$0.40	\$0.40
94	1	U23	TI	SN74LVC1G04DBV	Single inverter gate	AVAILABLE	SOT-23-5 DBV	SN74LVC1G04DBVR	DIGI-KEY	\$0.40	\$0.40
97	1	U5	Texas Instrument	TPS3825-33DBV	Processor Surpervisor Circuit	AVAILABLE	SOT-23-5-DBV	TPS3825-33DBVR	MOUSER	\$1.38	\$1.38
99	1	U3	Xilinx	XCR3384XL-10TQG144C	384 Macrocell CPLD	AVAILABLE			NU HORIZONS	\$68.95	\$68.95
100	1	U2	Exar	XR16L788CQ	Octal UART	SUBSTITUTE		XR16L788CQ-F	FUTURE ELECT	\$21.25	\$21.25
101	1	D5	National	LM385M-2.5	2.5V reference	SUBSTITUTE		LM385M-2.5/NOPB	DIGI-KEY	\$1.02	\$1.02
102	2	D1,D9	OnSemi	1.5KE20A	20V, 1.5KW Tranzorb	SUBSTITUTE		1.5KE20AG	DIGI-KEY	\$0.75	\$1.50
103	1	U34	Linear	LTC1540CMS8	IC COMP NANOWPOWER W/REF 8-MSOP	SUBSTITUTE		LTC1540CMS8#PBF	DIGI-KEY	\$3.38	\$3.38
108	3	FB1,FB2,FB3	Murata	BNX002-01	EMI Filter Block	AVAILABLE			MOUSER	\$8.70	\$26.10

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110	1	L2	sumida	CDRH125-101MC	100uH, 1A	LIMITED			HKCOMPONENT	\$2.33	\$2.33
111	1	L1	sumida	CDRH125-151MC	150uH, 1A	AVAILABLE			DIGI-KEY	\$2.13	\$2.13
112	6	LC1,LC2,LC3,LC4,LC5,LC6	Murata	NFE31PT222Z1E9	EMI filter	AVAILABLE		NFE31PT222Z1E9L	DIGI-KEY	\$0.54	\$3.24
114	35	TP1,TP2,TP3,TP4,TP5,TP6,TP7,TP8,TP9,TP10,TP11,TP12,TP13,TP14,TP15,TP16,TP17,TP18,TP19,TP20,TP21,TP22,TP23,TP24,TP25,TP26,TP27,TP28,TP29,TP30,TP31,TP32,TP33,TP34,TP35	generic	N/A	0.1 Center, 0.025sq post						
117	1	Y1	Citizen	CSA309-14.7456MABJ	CRYSTAL 14.7456 MHZ CYL TYPE	SUBSTITUTE		CSA309-147456MABJ-UB	DIGI-KEY	\$0.81	\$0.81
118	1	Y2	Citizen	CFS308-32.768KDZF	32768Hz crystal	SUBSTITUTE		CFS308-32.768KDZF-UB	NEWARK	\$0.26	\$0.26
119	1	Y3	Citizen	CSA310-4.000MABJ	4.0MHz crystal	SUBSTITUTE		CSA310-4.000MABJ-UB	DIGI-KEY	\$0.81	\$0.81
120	7	FC1,FC2,FC3,FC4,FC5,FC6,FC7	LittelFuse	122083	Fuse Clip, Beryllium Copper, 3AG, 2x Quan	AVAILABLE			MOUSER	\$0.86	\$6.02
122	6	F2,F3,F4,F5,F6,F7	Equivalent	Equivalent	10amp, SloBlo, 1.25" 3AG fuse						
124	1	F1	Equivalent	Equivalent	20amp, SloBlo, 1.25" 3AG fuse						
128	1	R2	Ohmite	15FR005	0.005, 1%, 5W	SUBSTITUTE		15FR005E	DIGI-KEY	\$2.05	\$2.05
129	8	R23,R26,R33,R38,R41,R48,R49,R58	Ohmite	12FR050	0.05, 1%, 2 Watt	SUBSTITUTE		12FR050E	DIGI-KEY	\$1.64	\$13.12
132	2	R4,R18	Equivalent	Equivalent		AVAILABLE	0805	GENERIC	GARRETT	\$0.08	\$0.17
137	5	R63,R64,R65,R66,R68	Dale	CRCW0603-621JRT1	620, 5%, 0.1W, 200ppm	AVAILABLE	0603	GENERIC	GARRETT	\$0.05	\$0.23
140	3	R61,R62,R73	Dale	CRCW0603-1501FRT1	1.5K, 1%, 0.1W, 100ppm	AVAILABLE	0603	GENERIC	GARRETT	\$0.04	\$0.12
142	25	R1,R3,R76,R10,R13,R14,R17,R20,R21,R29,R30,R31,R32,R36,R37,R42,R43,R46,R47,R54,R55,R56,R57,R69,R70	Phycomp	9C06031A1003FKRFT	100K, 1%, 0.1W, 100ppm	AVAILABLE	0603	GENERIC	GARRETT	\$0.08	\$1.90
144	6	R7,R75,R11,R16,R77,R78	Dale	CRCW0603-1002FRT1	10K, 1%, 0.1W, 100ppm	AVAILABLE	0603	GENERIC	GARRETT	\$0.08	\$0.46
147	1	R15	Dale	CRCW06031273F100	127K, 1%, 0.1W, 100ppm	AVAILABLE	0603	GENERIC	GARRETT	\$0.08	\$0.08
148	2	R8,R9	Equivalent	Equivalent	15K, 1%, 1/10W, 0603	AVAILABLE	0603	GENERIC	GARRETT	\$0.08	\$0.15
151	4	R5,R19,R35.R71	Equivalent	Equivalent	1M, 1%, 1/10W, 0603	AVAILABLE	0603	GENERIC	DIGI-KEY	\$0.08	\$0.31
153	1	R74	Yageo/Phycomp	CRCW06038873F100	2.43M, 1%, 0.1W, 100ppm	AVAILABLE	0603	GENERIC	GARRETT	\$0.06	\$0.06
155	8	R25,R27,R34,R40,R45,R51,R53,R60	Equivalent	Equivalent	200K, 1%, 1/10W, 0603	AVAILABLE	0603	GENERIC	DIGI-KEY	\$0.09	\$0.72
157	1	R22	Equivalnet	Equivalnet	332K, 1%, 1/10W, 0603	AVAILABLE	0603	GENERIC	DIGI-KEY	\$0.08	\$0.08
159	1	R72	Dale	CRCW0603-4992FRT1	49.9K, 1%, 0.1W, 100ppm	AVAILABLE	0603	GENERIC	GARRETT	\$0.08	\$0.08
160	7	R24,R28,R39,R44,R50,R52,R59	Equivalent	Equivalent	51K, 1%, 1/10W, 0603	AVAILABLE	0603	GENERIC	DIGI-KEY	\$0.08	\$0.54
161	1	R67	Equivalent	Equivalent	5K, 1%, 1/10W, 0603	AVAILABLE	0603	GENERIC	DIGI-KEY	\$0.09	\$0.09

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162	1	R6	Equivalnet	Equivalnet	604K, 1%, 1/10W, 0603	AVAILABLE	0603	GENERIC	DIGI-KEY	\$0.09	\$0.09
165	1	R12	Dale	CRCW06038873F100	887K, 1%, 0.1W, 100ppm	AVAILABLE	0603	GENERIC	GARRETT	\$0.08	\$0.08
166	1	U10	Invesys	ASDX030A24R	30psia sensor	AVAILABLE			DIGI-KEY	\$23.95	\$23.95
167	1	U8	Honeywell	HHH-3610	Humdity Sensor	REPLACED	TO-92/.100"	HHH-4000-003	NEWARK	\$33.98	\$33.98
168	1	D50	Photonic Detectors	PDB-C158	Light Detector	AVAILABLE			DIGI-KEY	\$3.37	\$3.37
169	1	U9	National Semi	LM50BIM3/NOPB	Temperature Sensor, Celcius, SOT23	AVAILABLE	SOT-23		DIGI-KEY	\$1.61	\$1.61
172	2	K19,K26	NAiS	DSP2A-L2-DC12V	DPDT Latching Relay	AVAILABLE			DIGI-KEY	\$7.67	\$15.34
173	1	SW1	ITT Cannon	KSC641G	SM tactile Switch, NO	SUBSTITUTE		KSC641GLFS	DIGI-KEY	\$0.52	\$0.52
176	17	K2,K4,K6,K8,K10,K12,K13,K14,K15,K16,K17,K18,K21,K23,K24,K27,K28	NAiS	TQ2-L2-12V	2 Form C, 12V, Lathcing Relay	AVAILABLE			DIGI-KEY	\$3.31	\$56.27
TOTAL PRICE FOR COMPONENTS											\$653.98