

ECO-Lite Controller PCA Bill of Materials: 600-000029-000						
Item #	EXI #	DESCRIPTION	QTY	SCHEMATIC REF	Alternate EXI #	MFR
1		ANTENNA, PCB Trace (Ref only)	Ref	A300		
2	340-000001-000	307 kHz Ferrite Core Antenna	1	A301		SG/Smallwood
3	110-000041-104	CAP, 100nF, SMD, 0805, X7R, 50V, 10%, -55 to +125C	8	C101, C103, C104, C256, C302, C401, C403, C404		Philips
4	110-002019-106	CAP, 10uF, SMD, Tantalum, 10V, 10%, -55 to +125C, B size	1	C102		Kemet
5	110-000039-180	CAP, 18pF, SMD, 0805, NPO, 50V, 5%, -55 to +125C	2	C105, C106		Philips
6	110-001006-337	CAP, 330uF, SMD, Aluminum Electrolytic, 35V, +/- 20%, -40C to 85C	4	C200, C211, C400, C405		SANYO
7	110-002055-106	CAP, 10uF, SMD, Tantalum, 35V, 10%, -55 to +125C, D size	4	C201, C203, C205, C406		Kemet
8	110-002004-105	CAP, 1uF, SMD, Tantalum, 16V, 10%, -55 to +125C, A size	4	C202, C204, C206, C207		Kemet
9	110-001003-337		0			
10	110-002062-226		0			
11	110-000041-472		0			
12	110-000041-473		0			
13	110-000039-101	CAP, 100pF, SMD, 0805, NPO, 50V, 5%, -55 to +125C	1	C300		Philips
14	110-002035-106	CAP, 10uF, SMD, Tantalum, 10V, 10%, -55 to +125C, C size	1	C301		Kemet
15	110-002007-105	CAP, 1uF, SMD, Tantalum, 35V, 10%, -55 to +125C, B size	2	C402		Kemet
16	110-000039-102	CAP, 1000pF, SMD, 0805, NPO, 50V, 5%, -55 to +125C	1	C407		Philips
17	110-000039-470	CAP, 47pF, SMD, 0805, NPO, 50V, 5%, -55 to +125C	2	C408, C409		Philips
18	110-003012-222	CAP, 2200pF, Straight. Ld., Met. Polyprop. Film, 1250VDC, 5%, -25 to +85C, 18/15	1	C410	110-003043-222, 110-003044-222, 110-003045-222	Panasonic
19	110-003029-683	CAP, 68nF, Straight. Ld., Met. Polyprop. Film, 250VDC, 5%, -25 to +85C, 18/15	1	C411		Panasonic
20	110-003012-472	CAP, 4700pF, Straight. Ld., Met. Polyprop. Film, 1250VDC, 5%, -25 to +85C, 18/15	1	C412		Panasonic
21	330-000001-000	LED, T-5(mm), Leaded, Green, Clear, 20mCD@20mA, 25 degrees	1	D101		Lumex
22	330-000003-000	LED, T-5(mm), Leaded, Yellow, Clear, 1500mCD@20mA, 30 degrees	1	D102		Lumex
23	330-000002-000	LED, T-5(mm), Leaded, Red, Clear, 1000mCD@20mA, 30 degrees	1	D103		Lumex
24	200-000007-500	Diode, Rectifier, 1A, 50V, MELF, -55 to +150C	4	D104, D200, D250, D400		Vishay-Liteon
25	200-000002-000	Diode, Fast Switching, SMD, 100V, 200mA, SOT-23	2	D105, D205		Motorola
26	200-000001-8V2		0			
27	200-000006-400		0			
28	200-000004-110	Diode, Zener, 11V, 500mW, MiniMELF, -65 to +175C	1	D251		Vishay-Liteon
29	200-000001-180	Diode, Zener, 18V, 500mW, SMD, SOD-123	1	D401		Motorola
30	200-000001-6V8	Diode, Zener, 6.8V, 500mW, SMD, SOD-123	1	D402		Motorola
31	300-000007-001	Connector, DC Jack, PCB Mount, Through Hole, 2.0mm diameter, CRSN Case	1	J150		PDI
32		Switch, DPST, SM DIP	1	JP1		CTS
33	300-000008-003	Connector, Mini DIN, 3-pin, Unshielded PCB Mount, 14x12.8x12.5mm	1	JP100		PDI
34	312-000001-000	Relay, DPDT, 12VDC, SMD, 0.5A@125VAC, 1A@30VDC	1	K100		Omron
35	120-000001-133	Not Used	0			
36	120-000002-680	Inductor, 68nH, SMD, Size 0603, High-Q, 5%, -40 to +85C	2	L300, L301		Coilcraft
37	120-000003-224	IND, 220uH, Leaded, Ferrite Core, 15%, -25 to +85C	1	L401		Mouser Elec.
38		Not Used	0			Mill Max
39	313-000001-001	Fuse, Resettable Polyswitch, SMD, 0.5A Hold, 1A Trip, 1.7W, -40 to +85C	1	PS200		Raychem

40	204-000001-000	Transistor, NPN, SOT-23, Vceo=40V, Ic=200mA	9	Q103, Q104, Q105, Q108, Q109, Q110, Q150, Q401, Q405		Motorola
41	204-000007-000		0			
42	204-000002-000	Transistor, PNP, SOT-23, Vceo=40V, Ic=200mA	1	Q403		Motorola
43	204-000003-000	Transistor, NPN, DPAK, Lead Formed, Vceo=100V, Ic=2A, 20W	1	Q400		Motorola
44	204-000005-000	Transistor, NPN, DPAK, Lead Formed, Vceo=100V, Ic=3A, 15W	1	Q402		Motorola
45	204-000006-000	Transistor, PNP, DPAK, Lead Formed, Vceo=100V, Ic=3A, 15W	1	Q404		Motorola
46	100-000013-681	RES, 680, SMD, 5%, 1/10W, 0805	3	R103, R104, R105		Panasonic
47	100-000013-102	RES, 1K, SMD, 5%, 1/10W, 0805	8	R108, R109, R129, R130, R131, R150, R404, R406		Panasonic
48	100-000013-821	RES, 820, SMD, 5%, 1/10W, 0805	2	R110,400		Panasonic
49	100-000013-100	RES, 10, SMD, 5%, 1/10W, 0805	5	R111, R201,R204,R209,R253		Panasonic
50	100-000013-223	RES, 22K, SMD, 5%, 1/10W, 0805	4	R112, R114, R116, R117		Panasonic
51	100-000013-103	RES, 10K, SMD, 5%, 1/10W, 0805	13	R113, R120, R124, R125, R126, R128, R152, R154, R208, R215, R216, R219, R409		Panasonic
52	100-000013-273	RES, 27K, SMD, 5%, 1/10W, 0805	1	R115		Panasonic
53	100-000013-220	RES, 22, SMD, 5%, 1/10W, 0805	2	R123, R407		Panasonic
54	100-000013-000	RES, 0, SMD, 5%, 1/10W, 0805	4	R127, R254, R255, R256		Panasonic
55	100-000013-391		0			
56	100-000013-101	RES, 100, SMD, 5%, 1/10W, 0805	1	R151		Panasonic
57	100-000013-244	RES, 240K, SMD, 5%, 1/10W, 0805	1	R153		Panasonic
58	100-000013-221	Not Used				Panasonic
59	100-000011-8872	RES, 88.7K, SMD, 1%, 1/10W, 0805	1	R205		Panasonic
60	100-000013-431	RES, 430, SMD, 5%, 1/10W, 0805	1	R206		Panasonic
61	100-000013-153	RES, 15K, SMD, 5%, 1/10W, 0805	1	R207		Panasonic
62	100-000011-1822	RES, 18.2K, SMD, 1%, 1/10W, 0805	1	R210		Panasonic
63	100-000013-245	RES, 2.4M, SMD, 5%, 1/10W, 0805	1	R211		Panasonic
64	100-000013-394	Not Used	0			Panasonic
65	100-000011-5362	Not Used	0			Panasonic
66	100-000013-622	Not Used	0			
67	100-000013-222	Not Used	0			
68	100-000013-473	RES, 47K, SMD, 5%, 1/10W, 0805	6	R220,R257, R301, R306, R309, R401,		Panasonic
69	100-000013-104	RES, 100K, SMD, 5%, 1/10W, 0805	5	R300,R305, R307, R310, R405		Panasonic
70	100-000013-274	RES, 270K, SMD, 5%, 1/10W, 0805	1	R302		Panasonic
71	100-000013-205	RES, 2M, SMD, 5%, 1/10W, 0805	1	R304		Panasonic
72	100-000013-472	RES, 4.7K, SMD, 5%, 1/10W, 0805	2	R308, R311		Panasonic
73	100-000013-432		0			
74	100-000013-222	RES, 2.2K, SMD, 5%, 1/10W, 0805	1	R402		Panasonic
75	102-000001-103	RES, Trimmer, 10k, SMD, Mech. Stop, f30%, -20 to +85C, X Reel Orientation	1	R403		BOURNS
76	100-000013-750	RES, 75, SMD, 5%, 1/4W, 1210	1	R408		Panasonic
77	100-000013-106	RES, 10M, SMD, 5%, 1/10W, 0805	1	R410		Panasonic
78	320-000001-000	Buzzer, 12V, 10mA, 2800Hz, 90dBA	1	SP1		Projects Unlimited
79	310-000001-000	Switch, Rotary, Octal (8-pos), SMD, Sealed	1	SW100		GRAYHILL
80	200-000003-010	Diode, Zener, Trans. Supp., 10V, SMA, 400W, 40A	2	TVS100, T101		Motorola

81	200-000003-036	Diode, Zener, Trans. Supp., 36V, SMA, 400W, 40A	1	TVS200		Motorola
82	601-000001-000	Programmed PIC for ECO Lite Controller	1	U101		
83	212-000001-001	IC, Serial EEPROM, I2C, SO-8, 1Kbits, 1.8V, 0 to 70C	1	U102		Microchip
84	230-000001-005	IC, 78Lxx regulator, 5V, Pos., 100mA., SO-8, 0 to +125C	4	U200, U201, U203, U205		National
85	230-000002-000	IC, Comparator, Ultra-low Pwr., 2-11V, 2.1uA, SO-8, 0 to +70C	1	U202		Linear Tech.
86	230-000003-000		0			
87	230-000004-3V0	IC, LDO Reg., 3.0V, 80mA, SOT-143, -40 to +125C	1	U206		Micrel
88	231-000001-000	IC, RF, 433.92MHz Hybrid Receiver, 3V, SM-20L (SMD), -40 to +85C	1	U300		RFM
89	205-000002-000	Transistor, PNP/NPN, SOT-363, Vceo=40V, Vcbo=60V/-40V, Ic=200mA	1	U301		Motorola
90	210-000002-000	IC, Octal Counter, CMOS, 4022, SO-16, -55 to +125C	1	U401		Fairchild
91	210-000001-000	IC, Hex Inverter, CMOS, 4069, SO-14, -55 to +125C	1	U402		Motorola
92	330-000008-001	LED Mount, Extruded, Self-Retaining, for 5mm LED, Black, 0.400" long	3	X1		BIVAR
93		XTAL, Shock Mnt, Double sided tape	2	X2		3M
94	300-000010-002	Connector, Premium 9V Batt. Strap, I Style, #26 AWG, Vinyl Cover, 6" Leads	1	X3		Keystone
95	122-000001-180	XTAL, 18pF, HC-49/U, Leaded, 20MHz, -20 to +70C, +/-50ppm	1	Y100		Raltron
96	122-000002-180	XTAL, 18pF, HC-49/U, Leaded, 2.4576MHz, -20 to +70C, +/-50ppm	1	Y400		Raltron
97	380-000011-000	ECO-Lite Controller PCB	1			
98	911-000011-000	Schematic, ECO-Lite Controller	0			
99	931-000013-000	ECO-Lite Controller PCA Test Procedure	0			
100	931-000014-000	ECO-Lite Controller 307 kHz Ferrite Antenna Tuning Procedure	0			
101	932-000074-000	ECO-Lite Controller PCA Assembly Instructions	0			

MFG PN
C159308
08052R104K9BB0
T491B106K010AS
0805CG220J9BB0
35CV330BS
T491D106K035AS
T491A105K016AS
0805CG101J9BB0
T491A106K006AS
T491B105K035AS
0805CG102J9BB0
0805CG470J9BB0
ECWH12222JV
ECWF2683JV
ECWH12472JV
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