

Love Meter v2a Bill of Materials - Damon Printz			November 2018					
ID	Designation	Value	Footprint	Part No.	Description	Manufacturer	Provider	Comment
1	C1	0.1uF	2.5mm Thru Hole	BC1072TR-ND	CAP CER 1000PF 50V X7R RADIAL	Vishay BC Components	Digikey	Ceramic Capacitor
2	C2	1uF	5mm OD x 2mm pitch	ESK105M050AC3AA	CAP ALUM 1UF 20% 50V RADIAL	KEMET	Digikey	Electrolytic Polarized Capacitor
3	D1	Blue	5mm Thru Hole	WP7113QBC/D	LED BLUE CLEAR T-1 3/4 T/H	Kingbright	Digikey	5mm, Round dome top, clear casing, 15 - 45 deg field of view, 8.5 - 8.8 mm tall, 1000 - 8000 mcd, 0 - 30 mA, < 4V Vf
4	D2	Green	5mm Thru Hole	WP7113LZGCK	LED GREEN CLEAR T-1 3/4 T/H	Kingbright	Digikey	
5	D3	Yellow	5mm Thru Hole	WP7113SYC	LED YELLOW CLEAR T-1 3/4 T/H	Kingbright	Digikey	
6	D4	Orange	5mm Thru Hole	SSL-LX5093SOC	LED ORANGE CLEAR T-1 3/4 T/H	Lumex Opto/Components Inc	Digikey	
7	D5	Red	5mm Thru Hole	SSL-LX5093SRC/E	LED RED CLEAR T-1 3/4 T/H	Lumex Opto/Components Inc	Digikey	
8	D6	Purple/Violet	5mm Thru Hole	SSL-LX5093VC	LED PURPLE CLEAR T-1 3/4 T/H	Lumex Opto/Components Inc	Digikey	
9	D7	Pink	5mm Thru Hole	SSL-LX5093PC	LED PINK CLEAR T-1 3/4 T/H	Lumex Opto/Components Inc	Digikey	
10	D8	White	5mm Thru Hole	SLX-LX5093UWC/C	LED WHITE CLEAR T-1 3/4 T/H	Lumex Opto/Components Inc	Digikey	
11	J1		2x12.7mm Thru Hole	2468	BATTERY HOLDER AAA 2 CELL PC PIN	Keystone Electronics	Digikey	Note: May be exchanged for a AAA holder with actual wires instead of prongs
12	J2	DNP			DNP			Do Not Place
13	J3		3x2.54mm	61300311121	CONN HEADER 3 POS 2.54	Würth Electronics Inc	Digikey	Headers for U1
14	R4	DNP			DNP			Do Not Place
15	R1	1M	6.3mm Thru Hole	CF14JT1M00	RES 1M OHM 1/4W 5% AXIAL	Stackpole Electronics Inc	Digikey	5% Resistor
16	R2, R3, R5, R6	100k	6.3mm Thru Hole	CF14JT100K	RES 100K OHM 1/4W 5% AXIAL	Stackpole Electronics Inc	Digikey	5% Resistor
17	R7, R8, R17, R18	10k	6.3mm Thru Hole	CF14JT10K0	RES 10K OHM 1/4W 5% AXIAL	Stackpole Electronics Inc	Digikey	5% Resistor
18	R9, R10, R11, R12, R13, R14, R15, R16	1k	6.3mm Thru Hole	CF14JT1K00	RES 1K OHM 1/4W 5% AXIAL	Stackpole Electronics Inc	Digikey	5% Resistor
19	RV1	200k	5x5mm Thru Hole	3306F-1-204	TRIMMER 200K OHM 0.2W PC PIN TOP	Bourns Inc	Digikey	Trimpot Resistor
20	SW1		3x2.54mm	EG1218	SWITCH SLIDE SPDT 200MA 30V	E-Switch	Digikey	SPDT switch
21	U1		3x2.54mm				Alibaba	5V DC-DC Boost Regulator
22	U2		DIP-8	ATTINY85-20PU	IC MCU 8BIT 8KB FLASH 8DIP	Microchip Technology	Digikey	Microprocessor
23	U3		DIP-14	LM324N	IC OPAMP GP 1.2MHZ 14DIP	Texas Instruments	Digikey	Op Amps
24	U4		DIP-16	SN74HC595N	IC 8-BIT SHIFT REGISTER 16-DIP	Texas Instruments	Digikey	Shift Register
25	X1		DIP-8	A 08-LC-TT	CONN IC DIP SOCKET 8POS TIN	Assmann WSW Components	Digikey	IC Socket
26	X2		DIP-14	A 14-LC-TT	CONN IC DIP SOCKET 14POS TIN	Assmann WSW Components	Digikey	IC Socket
27	X3		DIP-16	A 16-LC-TT	CONN IC DIP SOCKET 16POS TIN	Assmann WSW Components	Digikey	IC Socket
28	F1			31201527	3M 4008 series, 1" wide, 1/8" thick Urethane Double-Sided Tape	3M	Grainger	Double sided foam tape
29	F2				2 layer, FR4, Red soldermask with ENIG finish			PCB Board