

LamLoei UMO32C

v2.1

12/12/2019

Item	Quantity	Reference	Part	Footprint	Mfg	Mfg P/N	Vendor	Vendor P/N	Notes
1	21	C1, C5, C6, C7, C9, C10, C11, C12, C15, C17, C19, C20, C22, C24, C26, C28, C29, C30, C31, C32, C33	CAP CER 100nF ±10% 50V X7R	0402	Murata	GRM155R71H104KE14D	LCSC	C77020	
2	2	C2, C3	NC	0402					Not installed
3	11	C4, C8, C13, C14, C16, C18, C21, C23, C25, C27, C34	CAP CER 4.7uF ±10% 25V X7R	0805	Murata	GRM21BR71E475KA73L	LCSC	C162427	
4	1	C35	CAP TAN 470uF ±20% 6.3V	7343	PANASONIC	6TPE470MAZU	LCSC	C79114	
5	1	C36	CAP CER 10nF ±10% 25V X7R	0402	Murata	GRM155R71E103KA01D	LCSC	C77013	
6	1	C37	CAP CER 1nF ±10% 50V X7R	0402	Murata	GRM155R71H102JA01D	LCSC	C397298	
7	1	C38	CAP CER 470pF ±5% 50V X7R	0402	Murata	GRM155R71H471JA01D	LCSC	C415539	
8	1	C39	CAP CER 220pF ±10% 50V X7R	0402	Murata	GRM155R71H221KA01D	LCSC	C97872	
9	3	D1, D2, D3	Schottky Barrier Diodes (SBD) 40V 5A	SOD-128	Nexperia	PMEG4050EP,115	LCSC	C96235	
10	1	D4	Zener Diodes 12V 500mW	LL-34	ST(Semtech)	ZMM12	LCSC	C7172	
11	1	D5	Zener Diodes 3.6V 500mW	LL-34	ST(Semtech)	ZMM3V6	LCSC	C8057	
12	1	F1	PTC Resettable Fuses 6V 1.5A	1206	BOURNS	MF-NSMF075-2	LCSC	C89653	
13	1	J1	Female Header 8 1 P=2.54mm	8-PTH	CJT	A2541HWV-8P	LCSC	C225505	
14	1	J2	Female Header 10 1 P=2.54mm	10-PTH	CJT	A2541HWV-10P	LCSC	C225507	
15	1	J3	Female Header 6 1 P=2.54mm	6-PTH	CJT	A2541HWV-6P	LCSC	C225503	
16	1	J4	Female Header 12 1 P=2.54mm	12-PTH	CJT	A2541HWV-12P	LCSC	C225509	
17	1	J5	Female Header 6 2 P=2.54mm	6-PTH	CJT	A2541WV-2x3P	LCSC	C225518	
18	1	J6	HY Header Male Pin 0.079"(2.00mm)	4-SMD	BOOMELE	C146060	LCSC	C146060	
19	1	J7	NC	4-PTH					Not installed
20	1	K1	SPST-NO 50mA @ 12VDC	5-SMD	ALPS	SKHMQME010	LCSC	C115345	
21	1	K2	SPST-NO 50mA @ 12VDC	2-SMD	ALPS	SKRKAEE020	LCSC	C115357	
22	1	LED1	Light Emitting Diodes (LED) Blue 465~475nm	0603	Everlight	19-217/BHC-ZL1M2RY/3T	LCSC	C72041	
23	1	LED2	Light Emitting Diodes (LED) Yellow 585.5~591.5nm	0603	Everlight	19-213/Y2C-CQ2R2L/3T(CY)	LCSC	C72038	
24	2	Q1, Q2	NPN 100mA 45V 250mW	SOT-23-3	Nexperia	BC847B,215	LCSC	C57668	
25	3	Q3, Q4, Q5	MOSFET P Channel 20V 4.2A	SOT-23-3	Diodes	DMG2305UX-7	LCSC	C150470	
26	2	R1, R2	RES SMD 5.1K OHM 1% 1/16W	0402	Yageo	RC0402FR-075K1L	LCSC	C105872	
27	2	R3, R4	RES SMD 0 OHM 1% 1/16W	0402	Yageo	RC0402FR-070RL	LCSC	C106231	
28	1	R5	RES SMD 24K OHM 1% 1/16W	0402	Yageo	RC0402FR-0724KL	LCSC	C138026	
29	1	R6	RES SMD 47K OHM 1% 1/16W	0402	Yageo	RC0402FR-0747KL	LCSC	C93943	
30	6	R7, R8, R9, R10, R15, R16	RES SMD 12K OHM 1% 1/16W	0402	Yageo	RC0402FR-0712KL	LCSC	C114760	
31	2	R11, R12	RES SMD 2.2K OHM 1% 1/16W	0402	Yageo	RC0402FR-072K2L	LCSC	C114762	
32	3	R13, R14, R17	RES SMD 100K OHM 1% 1/16W	0402	Yageo	RC0402FR-07100KL	LCSC	C60491	
33	1	U1	Module WIFI	38-SMD	Espressif	ESP32-WROOM-32	LCSC	C95209	
34	1	U2	Transceiver USB 1/1 2Mbps	QFN-24	SILICON LABS	CP2104-F03-GMR	LCSC	C47742	
35	1	U3	Fixed 15V 3.3V 800mA	SOT-223	Texas	LM1117MPX-3.3/NOPB	LCSC	C9662	
36	1	U4	Fixed 15V 5V 800mA	SOT-223	Texas	LM1117MPX-5.0/NOPB	LCSC	C9663	
37	1	U5	Unidirectional 3V 6.1V	SOT-323-5	STMicro	ESDA6V1W5	LCSC	C48677	
38	1	USB1	USB - Type C Receptacle	24-SMD	MOLEX	105450-0101	LCSC	C134092	
39	1	USB2	NC - USB - Type B Receptacle USB 2.4	4-PTH	MOLEX	67068-8000	LCSC	C114097	Not installed