

LamLoei UNOFOX SFM10R4

v1

14/12/2019

Item	Quantity	Reference	Part	Footprint	Mfg	Mfg P/N	Vendor	Vendor P/N	Notes
1	1	ANT1	RF Connectors/Coaxial Connectors	U.FL	Hirose	U.FL-R-SMT-1(10)	LCSC	C88373	
2	39	C1, C5, C6, C7, C9, C10, C11, C12, C13, C14, C17, C18, C21, C23, C25, C27, C30, C31, C33, C34, C36, C38, C40, C41, C42, C43, C44, C45, C46, C47, C48, C50, C51, C52, C53, C54, C55, C58, C59	CAP CER 100nF ±10% 50V X7R	0402	Murata	GRM155R71H104KE14D	LCSC	C77020	
3	2	C2, C3	NC	0402					Not installed
4	15	C4, C8, C15, C16, C22, C24, C26, C28, C29, C32, C35, C37, C39, C49, C56	CAP CER 4.7uF ±10% 25V X7R	0805	Murata	GRM21BR71E475KA73L	LCSC	C162427	
5	2	C19, C20	CAP CER 10pF ±5% 50V C0G	0402	Murata	GRM1555C1H100JA01D	LCSC	C76946	
6	1	C57	CAP TAN 470uF ±20% 6.3V	7343	PANASONIC	6TPE470MAZU	LCSC	C79114	
7	1	C60	CAP CER 100pF ±2% 50V C0G	0402	Murata	GRM1555C1H101GA01D	LCSC	C161522	
8	3	D1, D2, D3	Schottky Barrier Diodes (SBD) 40V 5A	SOD-128	Nexperia	PMEG4050EP,115	LCSC	C96235	
9	1	D4	Switching Diode 75V 150mA 1.25V	SOD-323	Diodes	1N4148WS-7-F	LCSC	C60580	
10	1	D5	Zener Diodes 12V 500mW	LL-34	ST(Semtech)	ZMM12	LCSC	C7172	
11	1	D6	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	L1	Inductors 47nH ±2% 380mA 290mΩ	0603	Murata	LQW18AN47NG00D	LCSC	C98076	
23	1	LED1	Light Emitting Diodes (LED) Blue 465~475nm	0603	Everlight	I9-217/BHC-ZL1M2RY/3T	LCSC	C72041	
24	1	LED2	Light Emitting Diodes (LED) Yellow 585.5~591.5nm	0603	Everlight	I9-213/Y2C-CQ2R2L/3T(CY)	LCSC	C72038	
25	1	Q1	N Channel 60V 115mA	SOT-23-3	Diodes	2N7002-7-F	LCSC	C85049	
26	3	Q2, Q3, Q4	MOSFET P Channel 20V 4.2A	SOT-23-3	Diodes	DMG2305UX-7	LCSC	C150470	
27	1	Q5	Digital Transistors NPN - Pre-Biased 100mA 50V	SOT-723	ROHM	DTC043ZMT2L	LCSC	C308683	
28	2	R1, R2	RES SMD 5.1K OHM 1% 1/16W	0402	Yageo	RC0402FR-075K1L	LCSC	C105872	
29	5	R3, R4, R19, R20, R22	RES SMD 0 OHM 1% 1/16W	0402	Yageo	RC0402FR-070RL	LCSC	C106231	
30	1	R5	RES SMD 24K OHM 1% 1/16W	0402	Yageo	RC0402FR-0724KL	LCSC	C138026	
31	1	R6	RES SMD 47K OHM 1% 1/16W	0402	Yageo	RC0402FR-0747KL	LCSC	C93943	
32	3	R7, R12, R21	RES SMD 12K OHM 1% 1/16W	0402	Yageo	RC0402FR-0712KL	LCSC	C114760	
33	3	R8, R9, R10	RES SMD 2.2K OHM 1% 1/16W	0402	Yageo	RC0402FR-072K2L	LCSC	C114762	
34	7	R11, R13, R14, R15, R16, R17, R18	RES SMD 100K OHM 1% 1/16W	0402	Yageo	RC0402FR-07100KL	LCSC	C60491	
35	1	U1	8-Bit FLASH AVR 20MHz	TQFP-32 7x7x08P	Microchip	ATMEGA328PB-AU	LCSC	C132230	
36	1	U2	Transceiver USB 1/1 2Mbps	QFN-24	SILICON LABS	CP2104-F03-GMR	LCSC	C47742	
37	1	U3	Fixed 15V 3.3V 800mA	SOT-223	Texas	LM1117MPX-3.3/NOPB	LCSC	C9662	
38	1	U4	Fixed 15V 5V 800mA	SOT-223	Texas	LM1117MPX-5.0/NOPB	LCSC	C9663	
39	1	U5	Unidirectional 3V 6.1V	SOT-323-5	STMicro	ESDA6V1W5	LCSC	C48677	
40	1	U6	Buffers	TSSOP-8 3x3x065P	NXP	PCA9517ADP,118	LCSC	C80799	
41	1	U7	Wisol Sigfox Module WSSFM10R4AT	31-SMD	WISOL	WSSFM10R4AT	glynstore		https://www.glynstore.com/wisol-sigfox-module-wssfm10r4at/
42	1	USB1	USB - Type C Receptacle	24-SMD	MOLEX	105450-0101	LCSC	C134092	
43	1	USB2	NC - USB - Type B Receptacle USB 2.4	4-PTH	MOLEX	67068-8000	LCSC	C114097	Not installed
44	1	X1	SMD Crystal 16MHz ±20ppm 10pF 80Ω	SMD-3225_4P	Seiko Epson	X1E0003410273	LCSC	C255906	