

ID	Quantity	Value	Additional	Designator	Footprint	Type	Manufacturer Part	Manufacturer
1	1	1.2M	1/4W, 1%	R1	0805	Resistor	RK73H2ATTD1204F	KOA Speer
2	1	510k	1/4W	R2	0805	Resistor	RK73H2ATTD5103F	KOA Speer
3	1	15k	1/4W, 1%	R3	0805	Resistor	RK73H2ATTD1502F	KOA Speer
4	1	1k	1/4W	R4	0805	Resistor	RK73H2ATDD1001F	KOA Speer
5	1	47k	1/4W, 1%	R5	0805	Resistor	RK73H2ATTD4702F	KOA Speer
6	2	10	1/4W	R6,R7	0805	Resistor	RK73H2ATTD10R0F	KOA Speer
7	2	330	1/4W	R8,R12	0805	Resistor	RK73H2ATTD3300F	KOA Speer
8	7	4.7k	1/4W	R10,R11,R14,R17,R21,R23,R29	0805	Resistor	RK73H2ATTD4701F	KOA Speer
9	3	10k	1/4W	R9,R24,R25	0805	Resistor	RK73H2ATTD1002F	KOA Speer
10	4	150	1/4W	R13,R15,R16,R28	0805	Resistor	RK73H2ATTD1500F	KOA Speer
11	1	see schematic	1/4W	R18	0805	Resistor		
12	1	see schematic	1/4W	R19	0805	Resistor		
13	4	3.9k	1/4W	R20,R22,R26,R27	0805	Resistor	RK73H2ATTD3901F	KOA Speer
14	1	220u	25V	C1	8mm dia	Capacitor	GYB1E221MCQ1GS	Nichicon
15	9	100n	50V	C2,C6,C10,C12-C17	0805	Capacitor	C0805C104M5RACTU	KEMET
16	2	10u	25V	C3,C7	1206	Capacitor	TMK316BJ106MLHT	Taiyo Yuden
17	4	22u	25V	C4,C5,C8,C9	1206	Capacitor	TMK316BBJ226ML-T	Taiyo Yuden
18	1	10u	16V	C11	0805	Capacitor	GRM21BR61C106KE15K	Murata Electronics
19	1	B340A-13-F		D1	SMA	Diode	B340A-13-F	Diodes Incorporated
20	1	LED yellow		LED1	1206	LED	599-0240-007F	Dialight
21	1	LED red		LED2	1206	LED	599-0210-007F	Dialight
22	1	LED blue		LED3	1206	LED	599-0291-007F	Dialight
23	1	3.9uH inductor		L1	8043	Inductor	SRU8043-3R9Y	Bourns
24	1	4.7uH inductor		L2	8043	Inductor	SRU8043-4R7Y	Bourns
25	1	LTC4365		U1	SOT-8	IC	LTC4365ITS8-1#TRMPBF	Analog Devices
26	1	AP63203WU-7		U2	TSOT-26-6	IC	AP63203WU-7	Diodes Incorporated
27	1	AP63205WU-7		U3	TSOT-26-6	IC	AP63205WU-7	Diodes Incorporated
28	1	ESP-WROOM-32E	16MB	U4		MC module	ESP32-WROOM-32E-N16	Espressif Systems
29	1	CD40109B		U5	SO-16	IC	CD40109BNSR	Texas Instruments
30	1	DS3231MZ+		U6	SOIC-8	IC	DS3231MZ+TRL	Maxim Integrated
31	1	CSD88537ND Dual N		Q1	SOIC-8	Mosfet	CSD88537ND	Texas Instruments
32	4	BSS138		Q2,Q3,Q4,Q5	SOT-23	Mosfet	BSS138N H6327	Infineon Technologies
33	1	DC power connector		DCIN		DC power connector	PJ-057AH	CUI Devices
34	1	Fuse 1.25A Fast		F1		Fuse	0034.6015	Schurter
35	1	Fuse holder				Fuse holder	0031.7601	Schurter
36	2	Tactile Switch		SW1,SW2		Switch	TL1105AF160Q	E-Switch
37	1	Tactile Switch	right angle	BUTTON1		Switch	TL1105SF160Q	E-Switch
38	1	CR2032 battery holder				Battery holder	SMTU2032-LF	Renata
39	1	CR2032 battery		B1		Battery		
40	1	1x2 header/2.54mm	male	SWITCH		Locking header		
41	1	1x3 header/2.54mm	male	LED		Locking header		
42	1	1x5 header/2.54mm	male	KEYBOARD		Locking header		
43	1	1x6 header/2.54mm	male	DRIVER		Locking header		
44	*3	1x3 header/2.54mm	male	J1,J2,IOEX		Header		
45	*1	1x4 header/2.54mm	male	SERIAL		Header		
46	1	1x6 header/2.54mm	male	FLASH		Header		
47	1	3 poles terminal block		TOHVPSU		Fixed Terminal Block	TB006-508-03BE	CUI Devices
48	1	RJ45 Jack	female	PERIPHERALS	see datasheet	RJ45 jack	615008142621	Würth Elektronik

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