

Comment	Description	Designator	Footprint	LibRef	Quantity
3V		BT1	CR_SMD	Battery CR2032	
0.1	1	C1	0805 CAP	C	+
1.0	-	C2, C13, C17	C0805	С	+
0.1		C3, C6, C7, C8, C9, C10, C11, C18, C19,	C0805	С	
v. i		C26, C28, C31, C32	00000	-	1
10,0	1	C4	C0805	С	1
4.7	1	C5	C0805	C	
10n		C12	C0805	c	1
10.0		C14, C15, C20, C30	C0805	С	1
100		C16, C44	C0805	C	
22		C21, C22, C23, C24	C0805	С	
470		C25, C34	C0805	С	
220.0x35v		C27	CP_F_8,3X8,3X10,2	CP	
470.0x16		C29, C35	CP_F_8,3X8,3X10,2	CP	
470.0x6.3V		C33	CP_D8_6,6X6,6X7,7	CP	
1n		C36, C37, C38, C39,	C0805	С	
		C40, C41, C42, C43 D1, D4, D5, D14, D16,			
1N4148		D18, D21	SOD-323	1N4148	
		D2, D3, D6, D7, D8,			1
SS310		D9, D11, D12, D15	SMA	1N5822	
BZV55		D10, D20, D23	SOD-80	BZV55	
BZV55-15		D13	SOD-80	BZV55	
		ISO1, ISO2, ISO3,			
PC817		ISO4, ISO6, ISO7,	SOP-4 - PC817	OPTO_PC817	1
		ISO8			
PLS-2_2.54		J1, J3	PLS-2_2.54	CON_PLS-2_2.54	
Button		J2	7x7_12mm	Button_1	
PLS-2	1	J4	PLS-2_2.54	CON_PLS-2_2.54	
MICRO SD_HOLDER	1	J5	MICRO SD_HOLDER	MICRO SD_HOLDER	1
CON-1		J6, J7, J8, J9, J10, J11,	HOLE-2mm	CON-1	1
	1	J12			+
PLS-3_2.54	1	J13	PLS-3_2.54	CON_PLS-3_2.54	1
Jumper 10u	+	Jm1, Jm2	Jumper 0.25mm	Jumper	+
10u	+	L1	0805 IND	L.	1
1.5u 220uH	+	L2 L3	CD54 CD54	L	+
150uH		L4	1812 IND	ı	+
RGB		LED1	LED-RED 1	LED-RGB	
WI-FI ESP32		M1	ESP32S	WI-FI ESP32	+
Header 2	Header, 2-Pin	P1	HDR1X2	Header 2	+
Header 4	Header, 4-Pin	P2	HDR1X4	Header 4	
MOSFET_n	ricader, 4-1 III	Q1, Q2	DPAC	MOSFET_n	+
				IVIO3FE1_II	+
Q		Q3, Q5, Q7, Q10, Q13	SOT89	npn	
MJD44		Q4	DPAC	npn	+
MMBT5551		Q6, Q14, Q16	SOT23-3	npn	
FDD86567-F085		Q8	DPAC	MOSFET_n	
SS8050		Q9, Q15	SOT23-3	npn	
BSP170		Q11, Q12	SOT223	MOSFET_p	
		R1, R7, R17, R20,			
300		R28, R33, R39, R40,	R0805	R	
300		R41, R42, R48, R53,	KU8U5	К	
		R60, R87			
		R2, R8, R14, R15,			
		R16, R22, R35, R37,			
4.7k		R70, R71, R73, R78,	R0805	R	
	1	R85, R86, R88, R89,	1	1	1
					1
0.02		R90			
		R3, R4, R5, R6, R9,	2512 RES	R	
		R3, R4, R5, R6, R9, R10, R12, R13		**	
1		R3, R4, R5, R6, R9, R10, R12, R13 R18, R30, R83, R84	R0805	R	
1		R3, R4, R5, R6, R9, R10, R12, R13 R18, R30, R83, R84 R19, R52	R0805 R_5W_ROYAL153	R R	
1 30 3k		R3, R4, R5, R6, R9, R10, R12, R13 R18, R30, R83, R84 R19, R52 R21	R0805 R_5W_ROYAL153 R0805	R R R	
1 30 3k 130		R3, R4, R5, R6, R9, R10, R12, R13 R18, R30, R83, R84 R19, R52 R21 R23	R0805 R_5W_ROYAL153 R0805 R_5W_ROYAL153	R R R	
1 30 3k 130 18k		R3, R4, R5, R6, R9, R10, R12, R13 R18, R30, R83, R84 R19, R52 R21 R23 R24	R0805 R_5W_ROYAL153 R0805 R_5W_ROYAL153 R0805	R R R R	
1 30 3k 130 18k 10k		R3, R4, R5, R6, R9, R10, R12, R13 R18, R30, R83, R84 R19, R52 R21 R23 R24 R25, R36, R38	R0805 R_5W_ROYAL153 R0805 R_5W_ROYAL153 R0805 R0805	R R R R R	
1 30 3k 130 18k 10k		R3, R4, R5, R6, R9, R10, R12, R13 R18, R30, R83, R84 R19, R52 R21 R23 R24 R25, R36, R38 R26	R0805 R_5W_ROYAL153 R0805 R_5W_ROYAL153 R0805 R0805	R R R R R	
1 30 3k 130 18k 10k 11k		R3, R4, R5, R6, R9, R10, R12, R13 R18, R30, R83, R84 R19, R52 R21 R23 R24 R25, R36, R38 R26 R27	R0805 R 5W_R0YAL153 R0805 R_5W_R0YAL153 R0805 R0805 R0805 R0805 2512 RES	R R R R R R	
1 30 3k 130 18k 10k 11k		R3, R4, R5, R6, R9, R10, R12, R13 R18, R30, R83, R84 R19, R52 R21 R23 R24 R25, R36, R38 R26 R27 R27	R0805 R_5W_ROYAL153 R0805 R_5W_ROYAL153 R0805 R0805	R R R R R	
1 30 3k 130 18k 10k 11k 11k		R3, R4, R5, R6, R9, R10, R12, R13 R18, R30, R83, R84 R19, R52 R21 R23 R24 R25, R36, R38 R26 R27 R27 R29 R31, R49, R55, R59,	R0805 R_5W_ROYAL153 R0805 R_5W_ROYAL153 R0805 R0805 R0805 R0805 Z512 RES Z512 RES	R R R R R R R	
11 30 3k 130 18k 10k 11k 20		R3, R4, R5, R6, R9, R10, R12, R13 R18, R30, R83, R84 R19, R52 R21 R23 R24 R25, R36, R38 R26 R27 R27 R29 R31, R49, R55, R59, R65, R67, R72, R74,	R0805 R 5W_R0YAL153 R0805 R_5W_R0YAL153 R0805 R0805 R0805 R0805 2512 RES	R R R R R R	
1 30 3k 130 18k 10k 11k 11k		R3, R4, R5, R6, R9, R10, R12, R13 R18, R30, R83, R84 R19, R52 R21 R23 R24 R25, R36, R38 R26 R27 R27 R31, R49, R55, R59, R65, R67, R72, R74, R75, R77, R79, R80	R0805 R_5W_ROYAL153 R0805 R_5W_ROYAL153 R0805 R0805 R0805 R0805 R0805 R0805 2512 RES 2512 RES	R R R R R R R R	
1 30 3k 3k 1330 3k 1330 188 10k 111 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1		R3 R4, R5, R6, R9, R10, R12, R13 R18, R30, R63, R84 R19, R52 R21 R23 R24 R25, R36, R38 R26 R27 R27 R29 R55, R67, R72, R74, R75, R77, R79, R80 R32	R0805 R_5W_ROYAL153 R0805 R_5W_ROYAL153 R0805 R0805 R0805 R0805 2512 RES 2512 RES R0805 R0805	R R R R R R R	
1 30 3k 37 3k 37 3k 37 3k 37 3k 37 3k		R3, R4, R5, R6, R9, R10, R12, R13, R18, R30, R83, R84, R19, R52, R21, R23, R24, R25, R36, R38, R26, R27, R26, R31, R49, R55, R59, R65, R67, R72, R74, R75, R77, R79, R80, R32, R34, R34, R34	R0805 R, 5W, ROYAL153 R0805 R_5W_ROYAL153 R0805 R0805 R0805 2512 RES R0805 R0805 R0805	R R R R R R R R R	
1 30 38 38 38 39 39 39 39 39 39 39 39 39 39 39 39 39		R3, R4, R5, R6, R9, R10, R12, R13, R18, R30, R83, R84, R19, R52, R21, R23, R24, R25, R36, R38, R36, R38, R36, R37, R37, R37, R37, R37, R37, R37, R37	R0805 R, SW, ROYAL153 R0805 R, SW, ROYAL153 R0805 R0805 R0805 S12 RES S12 RES R0805 R0805 R0805 R0805 R0805 R0805	R R R R R R R R R R	
1 30 38 31 31 30 18k 10k 10k 11k 20 12k 5.1k		R3 R4, R5, R6, R9, R10, R12, R13, R18, R30, R83, R84, R19, R52, R21, R22, R24, R25, R36, R38, R26, R27, R29, R31, R49, R55, R59, R56, R67, R72, R74, R75, R77, R79, R80, R32, R34, R43, R41, R61, R68	R0805 R, SW, ROYAL153 R0805 R, SW_ROYAL153 R0805 R, SW_ROYAL153 R0805 R0805 R0805 2512 RES R0805 R0805 R0805 1200 RES R0805	R R R R R R R R R R	
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1 30 38 130 130 138 130 130 130 130 130 130 130 130 130 130		R3, R4, R5, R6, R9, R10, R12, R13 R18, R30, R83, R84 R19, R52 R21 R23 R24 R25, R36, R38 R26 R27 R27 R29 R31, R49, R55, R59, R65, R67, R72, R74, R75, R77, R79, R80 R32 R34 R44, R61, R68	R0805 R, SW, ROYAL153 R0805 R, SW, ROYAL153 R0805 R, SW, ROYAL153 R0805 R0805 S2512 RES S2512 RES R0805 R0805 R0805 R0805 R0805 R0805 R0805 R0805 R08065 R08065 R08005 R08	R R R R R R R R R R R R R R R R R R R	
1 30 33 k		R3 R4 R5 R6 R9 R10, R12, R13 R18, R30, R83, R84 R19, R52 R21 R23 R24 R25, R36, R38 R26 R27 R27 R29 R31, R49, R55, R59, R65, R67, R72, R74, R75, R77, R79, R80 R32 R34 R44, R61, R68 R45 R44, R61, R68	R0805 R, SW, ROYAL153 R08005 R, SW, ROYAL153 R08005 R, SW, ROYAL153 R08005	R R R R R R R R R R R R R R R R R R R	
1 30 38 38 38 38 39 39 39 39 39 39 39 39 39 39 39 39 39		R3, R4, R5, R6, R9, R10, R12, R13, R18, R30, R83, R84, R19, R52, R21, R23, R24, R25, R36, R38, R34, R27, R29, R31, R49, R55, R59, R65, R67, R72, R74, R31, R49, R55, R59, R65, R67, R72, R74, R31, R41, R61, R68, R61, R64, R69, R65, R61, R76, R77, R77, R79, R80, R32, R34, R34, R41, R61, R68, R65, R65, R65, R67, R76, R76, R76, R65, R65, R67, R76, R76, R65, R65, R65, R67, R76, R62, R65, R61, R67, R76, R62, R65, R61, R67, R76, R82, R65, R61, R67, R76, R82, R65, R61, R67, R76, R82, R654, R63, R61, R61, R62, R65, R61, R67, R76, R82, R64, R62, R65, R61, R67, R76, R82, R654, R63, R65, R65, R65, R65, R65, R65, R65, R65	R0805 R, SW, ROYAL153 R08065 R, SW, ROYAL153 R08065 ROSUS R0805 ROSUS RO	R R R R R R R R R R R R R R R R R R R	
1 30 30 31		R3, R4, R5, R6, R9, R10, R12, R13, R18, R30, R83, R84, R19, R52, R21, R23, R24, R25, R36, R38, R36, R38, R36, R37, R37, R37, R37, R37, R37, R37, R37	R0805 R, SW, ROYAL153 R0805 R, SW, ROYAL153 R0805 R, SW, ROYAL153 R0805	R R R R R R R R R R R R R R R R R R R	
1 30 38 38 3130 1186 1190 1190 1190 1190 1190 1190 1190 119		R3, R4, R5, R6, R9, R10, R12, R13 R18, R30, R83, R84 R19, R52 R21 R23 R24 R25, R36, R38 R26 R27 R27 R29 R31, R49, R55, R59, R65, R67, R72, R74, R75, R77, R79, R80 R32 R34 R44, R61, R68 R45 R46, R64, R69 R50 R51, R57, R76, R82 R54 R65, R67, R76, R82 R65, R64, R69 R650 R51, R57, R76, R82 R65, R66, R64, R69	R0805 R, SW, ROYAL153 R0805 R, SW, ROYAL153 R0805	R R R R R R R R R R R R R R R R R R R	
1 30 30 31 31 31 31 31 31 31 31 31 31 31 31 31		R3, R4, R5, R6, R9, R10, R12, R13, R18, R30, R83, R84, R19, R52, R21, R23, R24, R25, R36, R38, R34, R27, R29, R31, R49, R55, R59, R65, R67, R72, R74, R31, R49, R55, R59, R65, R67, R72, R74, R31, R41, R61, R68, R61, R64, R69, R65, R61, R76, R77, R77, R79, R80, R32, R34, R34, R41, R61, R68, R65, R65, R65, R67, R76, R76, R76, R65, R65, R67, R76, R76, R65, R65, R65, R67, R76, R62, R65, R61, R67, R76, R62, R65, R61, R67, R76, R82, R65, R61, R67, R76, R82, R65, R61, R67, R76, R82, R654, R63, R61, R61, R62, R65, R61, R67, R76, R82, R64, R62, R65, R61, R67, R76, R82, R654, R63, R65, R65, R65, R65, R65, R65, R65, R65	R0805 R, SW, ROYAL153 R0805 R, SW, ROYAL153 R0805 R, SW, ROYAL153 R0805 R0805 R0805 S2512 RES S2512 RES S2512 RES 1202 RES R0805	R R R R R R R R R R R R R R R R R R R	
1 30 38 38 38 38 38 39 38 39 39 39 39 39 39 39 39 39 39 39 39 39		R3 R4 R5, R6, R9, R10 R12, R13 R18, R30, R83, R84 R19, R52 R21 R23 R24 R25, R36, R38 R26 R27	R0805 R, SW, ROYAL153 R0805 R, SW, ROYAL153 R0805 R, SW, ROYAL153 R0805	R R R R R R R R R R R R R R R R R R R	
1 30 38 130 130 138 130 130 138 130 130 130 130 130 130 130 130 130 130		R3, R4, R5, R6, R9, R10, R12, R13, R18, R30, R83, R84, R19, R52, R21, R23, R24, R25, R36, R38, R38, R26, R27, R29, R31, R49, R55, R59, R65, R67, R72, R74, R75, R77, R79, R80, R32, R34, R41, R61, R68, R45, R45, R64, R64, R69, R65, R66, R64, R63, R66, R66, R66, R66, R66, R66, R61, R61	R0805 R, SW, ROYAL153 R0805 R, SW, ROYAL153 R0805 R, SW, ROYAL153 R0805	R R R R R R R R R R R R R R R R R R R	
1 30 30 31 31 31 32 31 32 31 32 31 32 31 32 31 32 31 32 31 32 31 32 32 32 32 32 33 32 32 32 33 32 32 32		R3, R4, R5, R6, R9, R10, R12, R13, R18, R30, R83, R84, R19, R52, R21, R22, R23, R24, R25, R36, R38, R26, R27, R27, R27, R31, R49, R55, R59, R51, R72, R74, R75, R77, R79, R80, R32, R34, R43, R47, R44, R61, R68, R45, R65, R67, R72, R74, R75, R77, R79, R80, R52, R51, R57, R76, R82, R52, R65, R65, R65, R65, R65, R65, R65, R65	R0805 R, SW, ROYAL153 R08005 R, SW, ROYAL153 R08005	R R R R R R R R R R R R R R R R R R R	
1 30 38 38 38 38 39 39 39 39 39 39 39 39 39 39 39 39 39		R3 R4 R5 R6 R9, R10 R12 R13 R18 R30 R83 R84 R19 R52 R21 R22 R23 R24 R25 R36 R38 R48 R29 R26 R27 R27 R29 R31 R49 R55 R59 R30 R32 R32 R32 R34 R43 R41 R45	R0805 R, SW, ROYAL153 R0805 R, SW, ROYAL153 R0805	R R R R R R R R R R R R R R R R R R R	
1 30 30 31 31 31 31 31 31 31 31 31 31 31 31 31		R3, R4, R5, R6, R9, R10, R12, R13, R18, R30, R83, R84, R19, R52, R21, R23, R24, R25, R36, R38, R38, R34, R27, R27, R29, R31, R49, R55, R59, R65, R67, R72, R74, R75, R77, R79, R80, R31, R41, R61, R68, R45, R64, R69, R65, R65, R65, R66, R64, R69, R65, R66, R65, R66, R65, R66, R66, R66	R0805 R, SW, ROYAL153 R08065 R, SW, ROYAL153 R08065 R, SW, ROYAL153 R0805 R080	R R R R R R R R R R R R R R R R R R R	
1 30 38 38 38 38 39 39 39 39 39 39 39 39 39 39 39 39 39		R3, R4, R5, R6, R9, R10, R12, R13, R18, R30, R83, R84, R19, R52, R21, R22, R24, R25, R36, R38, R36, R36, R36, R36, R36, R36, R377, R79, R30, R31, R49, R55, R59, R65, R67, R72, R74, R75, R77, R79, R80, R31, R41, R61, R68, R45, R61, R64, R69, R65, R61, R77, R76, R76, R76, R76, R76, R76, R76	R0805 R, SW, ROYAL153 R0806 R, SW, ROYAL153 R0806 R, SW, ROYAL153 R0806 R0805 R0805 R0805 R0805 R0805 R0805 R0805 R0806	R R R R R R R R R R R R R R R R R R R	
1 30 30 31 31 31 31 31 31 31 31 31 31 31 31 31		R3 R4 R5 R6 R9, R10 R12 R13 R18 R30 R83 R84 R19 R52 R21 R22 R23 R24 R25 R36 R38 R45 R26 R27 R27 R27 R27 R29 R31 R49 R55 R59 R31 R49 R55 R59 R55 R67 R72 R74 R75 R77, R79 R80 R32 R34 R43 R41 R61 R68 R45 R45 R45 R64 R64 R64 R64 R69 R60 R61 R65 R62 R81 R4 L0AD L10 R10 R10 R10 R10 R10 R10 R10 R10 R10 R	R0805 R, SW, ROYAL153 R0805 R, SW, ROYAL153 R0805 R0806 R0805 R0806 R0805	R R R R R R R R R R R R R R R R R R R	
1 30 30 31		R3, R4, R5, R6, R9, R10, R12, R13, R18, R30, R83, R84, R19, R52, R21, R23, R24, R25, R36, R38, R36, R36, R36, R36, R37, R37, R37, R37, R37, R37, R37, R37	R0805 R, SW, ROYAL153 R0806 R, SW, ROYAL153 R0806 R, SW, ROYAL153 R0806 R0806 R0806 R0806 S2512 RES 2512 RES 25	R R R R R R R R R R R R R R R R R R R	