

1

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A

A

B

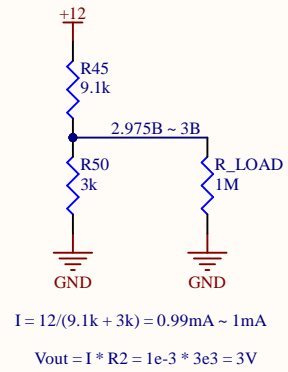
B

C

C

D

D



Title		
Size	Number	Revision
A4		
Date:	5.11.2023	Sheet of
File:	Sheet1.SchDoc	Drawn By:

1

2

3

4

Comment	Description	Designator	Footprint	LibRef	Quantity
3V		B11	CR_SMD	Battery CR2032	1
0.1		C1	0805 CAP	C	1
1.0		C2, C13, C17	C0805	C	3
0.1		C3, C6, C7, C8, C9, C10, C11, C18, C19, C26, C28, C31, C32	C0805	C	13
10.0		C4	C0805	C	1
4.7		C5	C0805	C	1
10n		C12	C0805	C	1
10.0		C14, C15, C20, C30	C0805	C	4
100		C16, C44	C0805	C	2
22		C21, C22, C23, C24	C0805	C	4
470		C25, C34	C0805	C	2
220.0x35v		C27	CP_F_8,3X8.3X10.2	CP	1
470.0x16		C29, C35	CP_F_8,3X8.3X10.2	CP	2
470.0x6.3V		C33	CP_D8_6,6X6.6X7.7	CP	1
1n		C36, C37, C38, C39, C40, C41, C42, C43	C0805	C	8
1N4148		D1, D4, D5, D14, D16, D18, D21	SOD-323	1N4148	7
SS310		D2, D3, D6, D7, D8, D9, D11, D12, D15	SMA	1N5822	9
BZV55		D10, D20, D23	SOD-80	BZV55	3
BZV55-15		D13	SOD-80	BZV55	1
PCB17		ISO1, ISO2, ISO3, ISO4, ISO6, ISO7, ISO8	SOP-4 - PCB17	OPTO_PCB17	7
PLS-2_2.54		J1, J3	PLS-2_2.54	CON_PLS-2_2.54	2
Button		J2	7x7_12mm	Button_1	1
PLS-2		J4	PLS-2_2.54	CON_PLS-2_2.54	1
MICRO SD HOLDER		J5	MICRO SD HOLDER	MICRO SD HOLDER	1
CON-1		J6, J7, J8, J9, J10, J11, J12	HOLE-2mm	CON-1	7
PLS-3_2.54		J13	PLS-3_2.54	CON_PLS-3_2.54	1
Jumper		Jm1, Jm2	Jumper 0.25mm	Jumper	2
10u		L1	0805 IND	L	1
1.5u		L2	CD54	L	1
220uH		L3	CD54	L	1
150uH		L4	1812 IND	L	1
RGB		LED1	LED-RED_1	LED-RGB	1
Wi-Fi ESP32		M1	ESP32S	Wi-Fi ESP32	1
Header 2	Header, 2-Pin	P1	HDR1X2	Header 2	1
Header 4	Header, 4-Pin	P2	HDR1X4	Header 4	1
MOSFET_n		Q1, Q2	DPAC	MOSFET_n	2
Q		Q3, Q5, Q7, Q10, Q13	SOT89	npn	5
MJD44		Q4	DPAC	npn	1
MMBT5551		Q6, Q14, Q16	SOT23-3	npn	3
FDD86567-F0B5		Q8	DPAC	MOSFET_n	1
SS8050		Q9, Q15	SOT23-3	npn	2
BSP170		Q11, Q12	SOT223	MOSFET_p	2
300		R1, R7, R17, R20, R28, R33, R39, R40, R41, R42, R48, R53, R60, R87	R0805	R	14
4.7k		R2, R8, R14, R15, R16, R22, R35, R37, R70, R71, R73, R78, R85, R86, R88, R89, R90	R0805	R	17
0.02		R3, R4, R5, R6, R9, R10, R12, R13	2512 RES	R	8
1		R18, R30, R83, R84	R0805	R	4
30		R19, R52	R_5W_ROYAL153	R	2
3k		R21	R0805	R	1
130		R23	R_5W_ROYAL153	R	1
18k		R24	R0805	R	1
10k		R25, R36, R38	R0805	R	3
11k		R26	R0805	R	1
1k		R27	2512 RES	R	1
20		R29	2512 RES	R	1
1k		R31, R49, R55, R59, R65, R67, R72, R74, R75, R77, R79, R80	R0805	R	12
220		R32	R0805	R	1
33k		R34	R0805	R	1
2k		R43, R47	1206 RES	R	2
5.1k		R44, R61, R68	R0805	R	3
9.1k		R45	R0603	R	1
82k		R46, R64, R69	R0805	R	3
3k		R50	R0603	R	1
16k		R51, R57, R76, R82	R0805	R	4
1k		R54, R63	1206 RES	R	2
1.5k		R56	2512 RES	R	1
100		R62	2512 RES	R	1
1.1%		R81	1206 RES	R	1
1M		R_LOAD	R0603	R	1
Test Point		TP1	Test Point	Test Point	1
STM32G474VET6		U1	LOFP100	STM32G474VET6	1
IR2127		U2, U3	SOIC 8	IR2127	2
TPS63030		U4	WSOIC 10PIN	TPS63030	1
MC34063		U5, U7	SOIC 8	MOC34063	2
12MHz		ZO1	ZO_SMD_13X4.7X4	CRYSTAL	1
32.768kHz		ZO2	ZO_Cylindrical_2.54	CRYSTAL	1