

Designator	Comment	Footprint	Quantity
C45	0.1uF	C0603	1
R63	0-F1	R0603	1
R62	0-F1	R0603	1
R61	0-F4	R0603	1
U3	CH340G	SOP-16	1
J3	USB	USB	1
J13	DG302-4P 5.0	DG302-5.0-4P	1
J2 M5	DIP16	DIP8825	1
J2 M4	DIP16	DIP8825	1
J2 M3	DIP16	DIP8825	1
J2 M2	DIP16	DIP8825	1
J2 M1	DIP16	DIP8825	1
J9	Z+	XH-3A	1
Z3	CG0603MLC-05E	R0603	1
Z2	CG0603MLC-05E	R0603	1
Z1	CG0603MLC-05E	R0603	1
C9	150pF	C0603	1
C8	0.1uF	C0603	1
F4	500mA	MF-MSMF050	1
C4	0.1uF	C0603	1
C3	100uF	RVT	1
Y1	8M	Y	1
U2	STM32F103VET6/STM32	LQFP100	1
R1 M5	100K	R0603	1
R1 M4	100K	R0603	1
R1 M3	100K	R0603	1
R1 M2	100K	R0603	1
R1 M1	100K	R0603	1
R24		22 R0603	1
R17	4.7K	R0603	1
R16	10K	R0603	1
Q4	MOS管 HY3403	TO-252A	1
Q3	MOS管 HY1403	TO-252A	1
Q2	MOS管 HY1403	TO-252A	1
Q1	MOS管 HY1403	TO-252A	1
JM1 M5	Header 4H	XH-4A	1
JM1 M4	Header 4H	XH-4A	1
JM1 M3	Header 4H	XH-4A	1
JM1 M2	Header 4H	XH-4A	1
JM1 M1	Header 4H	XH-4A	1
J4	XH-9A	XH-9A	1
J5	Header 2	XH-3A	1
J6	X	XH-3A	1
J7	Y	XH-3A	1
J8	Z-	XH-3A	1
F3	RCL-1.5A	MF-MSMF050	1
F2	15A	F1206	1
F1	30A	F1206	1
D4	LED	LED0603	1
D3	LED	LED0603	1

D2	LED	LED0603	1
D1	LED	LED0603	1
D8	SS12	D-SMA	1
D7	LED	LED0603	1
D6	LED	LED0603	1
D5	B340A-13-F	D-SMA	1
C15	0. 1uF	C0603	1
C14	10pF	C0603	1
C13	22pF	C0603	1
C12	10pF	C0603	1
C17	0. 1uF	C0603	1
C6	22uF	RVT4X5. 5	1
C5	0. 1uF	C0603	1
C2	10uF	C0805	1
RPK3	1. 8K	RPACK4	1
Ry1	1M	R0603	1
R7	100K	R0603	1
R8	100K	R0603	1
R9	4. 7K	R0603	1
R10	4. 7K	R0603	1
R3	210k	R0603	1
R5	24. 9k	R0603	1
C7	100uF	RVT	1
LG1	BLM21	R0805	1
R4	40. 2k	R0603	1
R6	100K	R0603	1
R11	4. 7K	R0603	1
R12	4. 7K	R0603	1
R13	4. 7K	R0603	1
R14	10K	R0603	1
R30	10K	R0603	1
R31	10K	R0603	1
RPK1 M1	100	RPACK4	1
RPK1 M2	100	RPACK4	1
RPK1 M3	100	RPACK4	1
RPK1 M4	100	RPACK4	1
RPK1 M5	100	RPACK4	1
U1	MP1584EN	SOIC8E	1
C1 M1	100uF	RVT	1
C1 M2	100uF	RVT	1
C1 M3	100uF	RVT	1
C1 M4	100uF	RVT	1
C1 M5	100uF	RVT	1
C16	0. 1uF	C0603	1
C18	0. 1uF	C0603	1
C21	0. 1uF	C0603	1
C22	0. 1uF	C0603	1
C26	22pF	C0603	1
C27	0. 1uF	C0603	1
C28	1uF	C0603	1
D9	SMA-S1G-1A	D-SMA	1

D10	S1A-13-F	D-SMA	1
D11	LED	LED0603	1
J1_M1	Header 3X2	HDR2X3	1
J1_M2	Header 3X2	HDR2X3	1
J1_M3	Header 3X2	HDR2X3	1
J1_M4	Header 3X2	HDR2X3	1
J1_M5	Header 3X2	HDR2X3	1
J10	Header 2	XH-2A	1
J11	Header 3X2	HDR2X3	1
J12	Header 2H	XH-2A	1
Jc1_M1	Header 4	HDR1X4	1
Jc1_M2	Header 4	HDR1X4	1
Jc1_M3	Header 4	HDR1X4	1
Jc1_M4	Header 4	HDR1X4	1
Jc1_M5	Header 4	HDR1X4	1
L1	D03316P 15uH-3A	D03316	1
R2_M1	10K	R0603	1
R2_M2	10K	R0603	1
R2_M3	10K	R0603	1
R2_M4	10K	R0603	1
R2_M5	10K	R0603	1
R18	4.7K	R0603	1
R19	4.7K	R0603	1
R20	1.8K	R0603	1
R29	10K	R0603	1
RPK2	10	RPACK4	1
RPK4	100K	RPACK4	1
Ry2	1M	R0603	1
C19	0.1uF	C0603	1
C20	0.1uF	C0603	1
C30	0.1uF	C0603	1
C31	0.1uF	C0603	1
Y2	32.768K	FC-135	1
C11	22pF	C0603	1
R21	1.8K	R0603	1
R22	1K	R0603	1
R23	1K	R0603	1
R28	10K	R0603	1
J14	Header 2H	129-5.08	1
C10	0.1uF	C0603	1
C23	0.1uF	C0603	1
C24	0.1uF/NL	C0603	1
C25	22pF	C0603	1
C32	0.1uF	C0603	1
C33	0.1uF	C0603	1
C34	0.1uF	C0603	1
C35	0.1uF	C0603	1
C36	0.1uF	C0603	1
C37	0.1uF	C0603	1
C38	0.1uF	C0603	1
C39	10uF	RVT4X6	1

C40	10uF	RVT4X6	1
C41	10uF	RVT4X6	1
C42	10uF	RVT4X6	1
Fid1	Fiducial	Fiducial-A	1
Fid2	Fiducial	Fiducial-A	1
Fid3	Fiducial	Fiducial-A	1
JP1	FPC32	FPC32	1
M1	ESP-12F	ESP-12S-A	1
MT_DET1	Header 3	XH-3A	1
MT_DET2	Header 3	XH-3A	1
POWER	DG302-5.0	129-5.08	1
PW_DET	Header 3	XH-3A	1
R15	10K	R0603	1
R25	22	R0603	1
R26	10K	R0603	1
R27	10K	R0603	1
R32	10K	R0603	1
R33	10K	R0603	1
R34	10K	R0603	1
R35	10K	R0603	1
R36	10K	R0603	1
R37	10K	R0603	1
R38	100	R0603	1
R39	10K	R0603	1
R40	10K	R0603	1
R41	10K	R0603	1
R42	10K	R0603	1
R43	10K	R0603	1
R44	10K	R0603	1
R45	10K	R0603	1
R46	10K	R0603	1
R47	10K	R0603	1
R48	10K	R0603	1
R49	1K	R0603	1
R50	10K	R0603	1
R51	10K	R0603	1
R52	100 $\Omega$	R0603	1
R53	100 $\Omega$	R0603	1
R54	100 $\Omega$	R0603	1
R55	4.7K	R0603	1
R56	4.7K	R0603	1
R57	4.7K	R0603	1
R58	1.8K	R0603	1
R59	100K	R0603	1
SD	microSD	microSD-2	1
TB	Header 2	XH-2A	1
TC	Header 6	HDR1X6	1
TH1	Header 2	XH-2A	1
TH2	Header 2	XH-2A	1
U4	AT24C16N-10SI-2.7	S08	1
U5	W25Q64BVSSI	W25Q64BVSSI	1

U6	LM1117-3.3V	SOT223-4N	1
Y3	12M	Y	1
C29	0.1uF	C0603	1
R60	10	R0805	1
J15	Header 2	XH-2A	1
J16	Header 3	HDR1X3	1
J17	Header 3	HDR1X3	1
J18	XH-4A	XH-4A	1
C43	2.2uF	C0603	1
C44	2.2uF	C0603	1