Designator	Comment	Footprint	Quantity
3V3	Header 2	HDR1X2	1
5V	Header 2	HDR1X2	1
12V	Header 2	HDR1X2	1
AUX-1	Header 4X2	DC8P	1
C1	100uF 35V	CAP EL PANASONIC	1
C2	150pF	C0603	1
C3	100nF	C0603	1
C5	4.7uF	C0603	1
C6	4.7uF	C0603	1
C7	10uF	C0805	1
C8	100nF	C0603	1
C9	1uF	C0603	1
C10	100nF	C0603	1
C11	100nF	C0603	1
C12	4.7uF	C0603	1
C13	100nF	C0603	1
C14	100nF	C0603	1
C15	100nF	C0603	1
C16	100nF	C0603	1
C17	10uF	C1206	1
C18	0.1uF	C0603	1
C19	100nF	C0603	1
C20	100nF	C0603	1
C21	100uF 35V	CAP EL PANASONIC	1
C22	100uF 35V	CAP EL PANASONIC	1
C23	100uF 35V	CAP EL PANASONIC	1
C24	100uF 35V	CAP EL PANASONIC	1
C25	100uF 35V	CAP EL PANASONIC	1
C26	1uF	C0603	1
C27	1uF	C0603	1
C28	1uF	C0603	1
C29	1uF	C0603	1
C30	100uF 35V	CAP EL PANASONIC	1
C31	220uF/16V	CAP EL PANASONIC	1
C32	100uF 35V	CAP EL PANASONIC	1
C33	100nF	C0603	1
C34	100nF	C0603	1
C35	4.7uF	C0603	1
C36	0.1uF	C0603	1
C37	0.1uF	C0603	1
C38	10uF	C0805	1
C39	10uF	C0805	1
C41	0.1uF	C0603	1
C42	0.1uF	C0603	1
C43	0.1uF	C0603	1
C44	0.1uF	C0603	1
C45	0.1uF	C0603	1
C46	0.1uF	C0603	1
C47	100uF	CAP EL PANASONIC	1
D1	S1G	D-SMA	1

D2	SS54	D-SMA	1
D3	SS24	D-SMA	1
D4	SS12	D-SMA	1
D5	B340A-13-F	D-SMA	1
D6	S1A	D-SMA	1
D7	S1A	D-SMA	1
D8	SS54	D-SMA	1
D15	SS24	D-SMA	1
E0_0	Header 8	HDR1X8-HEADER	1
E0_1	Header 8	HDR1X8-HEADER	1
E0_MOT		TERM4 3.5mm	1
E0_MOT_A	Header 4	HDR1X4	1
E0_MS1	Header 3	HDR1X3-HEADER	1
E0_MS2	Header 3	HDR1X3-HEADER	1
E0_MS3	Header 3	HDR1X3-HEADER	1
E0_SLP	Header 3	HDR1X3-HEADER	1
E1_0	Header 8	HDR1X8-HEADER	1
E1_1	Header 8	HDR1X8-HEADER	1
E1_MOT		TERM4 3.5mm	1
E1_MOT_A	Header 4	HDR1X4	1
E1_MS1	Header 3	HDR1X3-HEADER	1
E1_MS2	Header 3	HDR1X3-HEADER	1
E1_MS3	Header 3	HDR1X3-HEADER	1
E1_SLP	Header 3	HDR1X3-HEADER	1
E2_0	Header 8	HDR1X8-HEADER	1
E2_1	Header 8	HDR1X8-HEADER	1
E2_MOT		TERM4 3.5mm	1
E2_MOT_A	Header 4	HDR1X4	1
E2_MS1	Header 3	HDR1X3-HEADER	1
E2_MS2	Header 3	HDR1X3-HEADER	1
E2_MS3	Header 3	HDR1X3-HEADER	1
E2_SLP	Header 3	HDR1X3-HEADER	1
ENC_1	Header 4	HDR1X4	1
ENC_2	Header 4	HDR1X4	1
ENC_3	Header 4	HDR1X4	1
ENC_4	Header 4	HDR1X4	1
EXP1	Header 5X2	HDR2X5_exp lner only\	1
EXP2	Header 5X2	HDR2X5_exp lner only\	1
EXP3	Header 7X2	HDR2X7	1
F1	15A	F1206	1
F2	30A	F1206	1
F3		R0805	1
F4	1A	MF-MSMF050	1
FAN0		TERM2 3.5mm	1
FAN0_1	Header 2	HDR1X2	1
FAN1		TERM2 3.5mm	1
FAN1_1	Header 2	HDR1X2	1
FB1	120R @ 100MHz 2A 0603	R0603	1
FB2	120R @ 100MHz 2A 0603	R0805	1
Fid1	Fiducial	Fiducial-A	1
Fid2	Fiducial	Fiducial-A	1

Fid3	Fiducial	Fiducial-A	1
HB-OUT		TERM2 5MM	1
HB-PWR		TERM2 5MM	1
HE0		TERM2 3.5mm	1
HE1		TERM2 3.5mm	1
HE2		TERM2 3.5mm	1
ISP1	Header 3X2	HDR2X3	1
J1	Header 3	HDR1X3	1
J2	MINI-5PIN-180	MicroUSB-B	1
J3	Header 3	HDR1X3	1
J4	Header 2	HDR1X2	1
J5	Header 2	HDR1X2	1
J6	Header 2	HDR1X2	1
J7	Header 2	HDR1X2	1
J8	Header 2	HDR1X2	1
J9	Header 2	HDR1X2	1
JMP	Green		1
L1	15uH/3A	L7*7*4	1
L2		SRN6045TA SMD Inductor	1
LD1		LED0603	1
LD2		LED0603	1
LD3		LED0603	1
LD4		LED0603	1
LD5		LED0603	1
LD6		LED0603	1
LD7		LED0603	1
LD8		LED0603	1
LD9		LED0603	1
LD10		LED0603	1
LD11		LED0603	1
LED1		LED0603	1
MAIN-PWR		TERM2 5MM	1
PS_ON	Header 2	HDR1X2	1
PWR	Header 2	HDR1X2	1
Q1	HY1403	TO-252AA	1
Q2	HY1403	TO-252AA	1
Q3	HY1403	TO-252AA	1
Q4	HY1403	TO-252AA	1
Q5	HY1403	TO-252AA	1
Q6	HY3403	TO-252AA	1
R1	22R	R0603	1
R2	2K2	R0603	1
R3	2K2	R0603	1
R4	1.8K	R0603	1
R5	210k	R0603	1
R6	40.2k	R0603	1
R7	22R	R0603	1
R8	22R	R0603	1
R9	22R	R0603	1
R10	100K	R0603	1
R11	10K	R0603	1

R12	10K	R0603	1
R13	1.8K	R0603	1
R14	10K	R0603	1
R15	1.8K	R0603	1
R19	54.9k	R0603	1
R20	1.8K	R0603	1
R21	10K	R0603	1
R22	100K	R0603	1
R23	10K	R0603	1
R24	100K	R0603	1
R25	10K	R0603	1
R26	100K	R0603	1
R27	10K	R0603	1
R28	100K	R0603	1
R29	10K	R0603	1
R30	100K	R0603	1
R31	22R	R0603	1
R32	100K	R0603	1
R33	1.8K	R0603	1
R34	22R	R0603	1
R35	100K	R0603	1
R36	1.8K	R0603	1
R37	22R	R0603	1
R38	100K	R0603	1
R39	1.8K	R0603	1
R40	4.7K	R0603	1
R41	4.7K	R0603	1
R42	4.7K	R0603	1
R43	4.7K	R0603	1
R44	100K	R0603	1
R45	10K	R0603	1
R46	22R	R0603	1
R47	100K	R0603	1
R48	22R	R0603	1
R49	100K	R0603	1
R50	1.8K	R0603	1
R51	22R	R0603	1
R52	100K	R0603	1
R53	1.8K	R0603	1
R54	4.7K	R0603	1
R55	1.8K	R0603	1
R56	140K	R0603	1
R57	10K	R0603	1
R58	1.8K	R0603	1
R59	4.7K	R0603	1
R60	1K	R0603	1
R61	1K	R0603	1
R62	1K	R0603	1
R63	1K	R0603	1
R64	1K	R0603	1
R65	1K	R0603	1

R66	4.7K	R0603	1
R67	4.7K	R0603	1
R68	4.7K	R0603	1
R69	4.7K	R0603	1
R70	4.7K	R0603	1
R71	4.7K	R0603	1
R72	100	R0603	1
R73	100	R0603	1
R74	100	R0603	1
R75	100	R0603	1
R76	100	R0603	1
R77	100K	R0603	1
R78	24.9k	R0603	1
R79	100K	R0603	1
R80	100K	R0603	1
R81	10	R0603	1
R82	0Ω	R0603	1
R83	0Ω	R0603	1
R84	0Ω	R0603	1
R85	0Ω	R0603	1
R86	0Ω	R0603	1
R87	0Ω	R0603	1
R88	100	R0603	1
R89	100	R0603	1
R90	1K	R0603	1
R91	1K	R0603	1
R92	1K	R0603	1
R93	1K	R0603	1
R94	1K	R0603	1
R95	1K	R0603	1
S1	Momentary Tactile Button	SW-PB SMD 2pin	1
S2	Momentary Tactile Button	SW-PB SMD 2pin	1
S3	Momentary Tactile Button	SW-PB SMD 2pin	1
Thermistors	Header 5X2	HDR2X5	1
U1	STM32F446VET6	STM-LQFP100_N	1
U3	MP1584	SOIC8E	1
U4	AOZ1284	SOIC127P600X170_HS-9N	1
U5	USBLC6-4SC6	SOT23-6N	1
U6	电源芯片-AMS1117-3.3V	SOT223-4N	1
USB_AUX	Header 4	HDR1X4	1
VFA0_sel	Header 3	HDR1X3-HEADER	1
VFA1_sel	Header 3	HDR1X3-HEADER	1
VHE2_sel	Header 3	HDR1X3-HEADER	1
X+	Header 3	HDR1X3-HEADER	1
X-	Header 3	HDR1X3-HEADER	1
XT1	12MHz 33pF 0.5%	CERALOCK CSTCE_G	1
X_0	Header 8	HDR1X8-HEADER	1
X_1	Header 8	HDR1X8-HEADER	1
X_MOT		TERM4 3.5mm	1
X_MOT_A	Header 4	HDR1X4	1
X_MS1	Header 3	HDR1X3-HEADER	1

X_MS2	Header 3	HDR1X3-HEADER	1
X_MS3	Header 3	HDR1X3-HEADER	1
X_SLP	Header 3	HDR1X3-HEADER	1
Y+	Header 3	HDR1X3-HEADER	1
Y-	Header 3	HDR1X3-HEADER	1
Y_0	Header 8	HDR1X8-HEADER	1
Y_1	Header 8	HDR1X8-HEADER	1
Y_MOT		TERM4 3.5mm	1
Y_MOT_A	Header 4	HDR1X4	1
Y_MS1	Header 3	HDR1X3-HEADER	1
Y_MS2	Header 3	HDR1X3-HEADER	1
Y_MS3	Header 3	HDR1X3-HEADER	1
Y_SLP	Header 3	HDR1X3-HEADER	1
Z+	Header 3	HDR1X3-HEADER	1
Z-	Header 3	HDR1X3-HEADER	1
Z_0	Header 8	HDR1X8-HEADER	1
Z_1	Header 8	HDR1X8-HEADER	1
Z_MOT		TERM4 3.5mm	1
Z_MOT_A	Header 4	HDR1X4	1
Z_MS1	Header 3	HDR1X3-HEADER	1
Z_MS2	Header 3	HDR1X3-HEADER	1
Z_MS3	Header 3	HDR1X3-HEADER	1
Z_SLP	Header 3	HDR1X3-HEADER	1