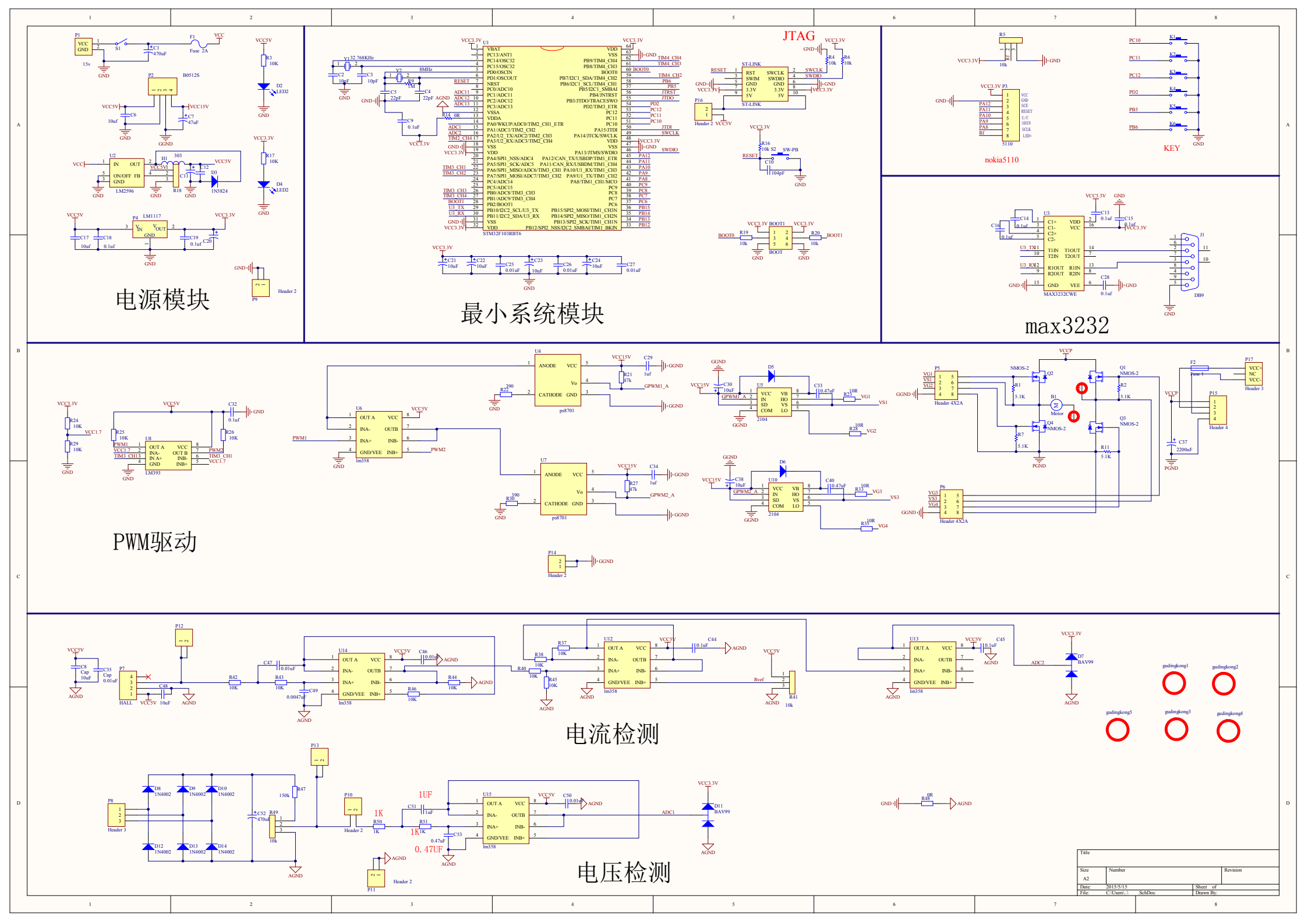
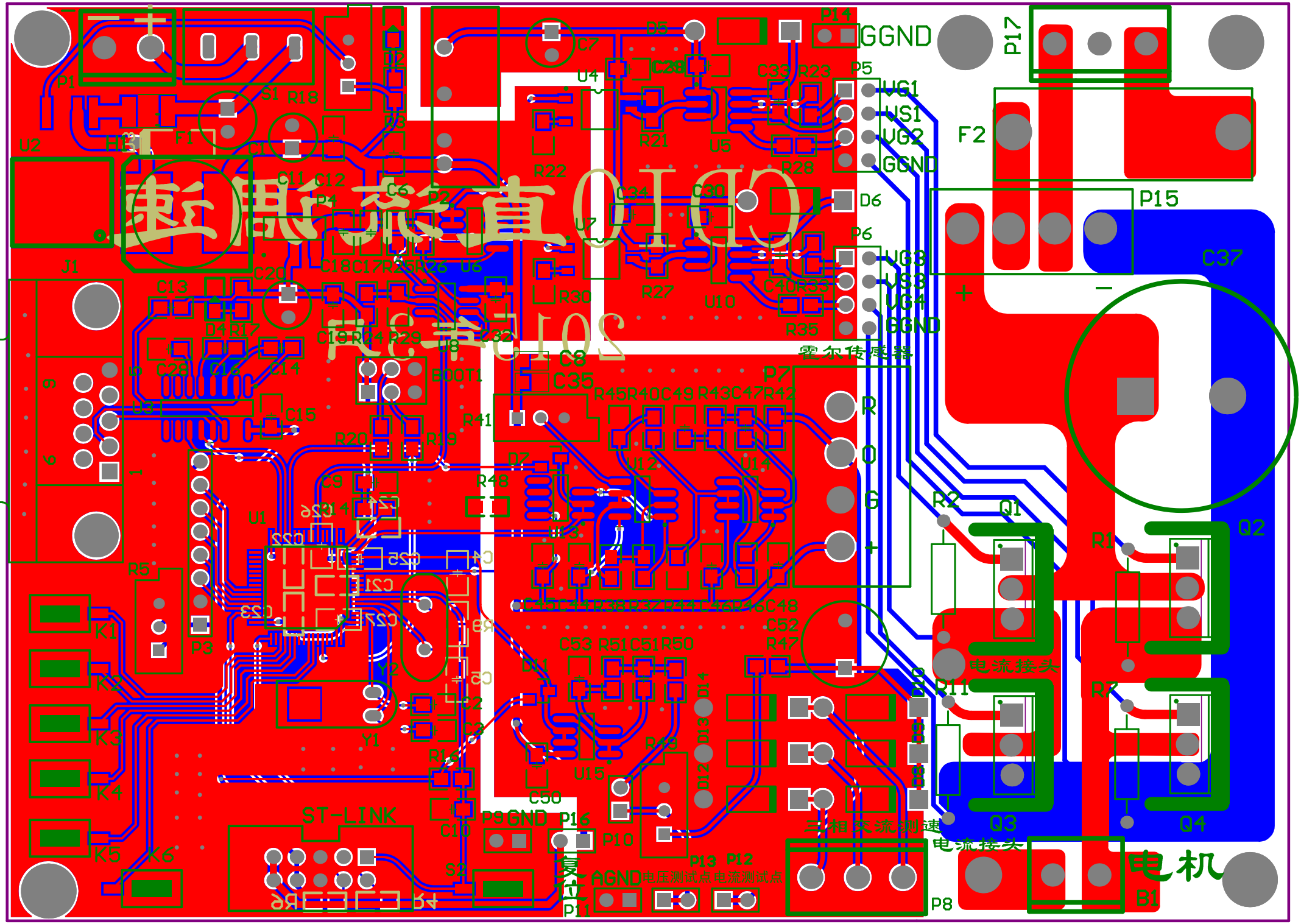


电源模块
最小系统模块
JTAG
nokia5110
KEY
max3232
PWM驱动
电流检测
电压检测
Title
Size
A2
Number
Revision
Date: 2015/5/15
Sheet of
File: C:\Users\..\ .SchDoc
Drawn By:



GGND
P17
P5
VG1
VS1
VG2
GGND
F2
P15
D6
P6
VG3
VS3
VG4
GGND
C37
+
−
霍尔传感器
R
O
G
+
R2
Q1
Q2
R1
电流接头
R11
R7
Q3
Q4
电流接头
电机
B1
P8
P14
P1
U2
J1
S1
R18
U4
U5
U6
U7
U10
U8
U12
U14
U15
U1
R5
P3
K1
K2
K3
K4
K5
K6
ST-LINK
P9
GND
P16
P10
P11
P13
P12
P7
P2
P4
P6
P8

Comment	Description	Designator	Footprint	LibRef	Quantity
Motor	Motor, General Kind	B1	偏脚接线端子 -	Motor	1
BOOT	Header, 3-Pin, Dual	BOOT1	HDR2X3	Header 3X2	1
Cap Pol1	Polarized Capacitor (Radial)	C1	470uf	Cap Pol1	1
	Capacitor	C2, C3, C4, C5, C9,	0805C	Cap	6
Cap	Capacitor	C6, C13, C14, C15, C16, C17, C18, C19, C25, C26, C27, C28, C29, C32, C33, C34, C40, C44, C45, C46, C47, C48, C49, C50,	0805C	Cap	26
Cap Pol1	Polarized Capacitor (Radial)	C7	10uf	Cap Pol1	1
Cap	Capacitor	C8, C35	C-0805	Cap	2
100		C11, C20	10uf	贴片胆电容	2
104		C12	0805c	贴片无极性电容	1
Cap Pol1	Polarized Capacitor (Radial)	C21, C22, C23, C24	0805R	Cap Pol1	4
Cap Pol1	Polarized Capacitor (Radial)	C30, C38	0805C	Cap Pol1	2
Cap Pol1	Polarized Capacitor (Radial)	C37	220uf/420v - duplicate	Cap Pol1	1
Cap Pol1	Polarized Capacitor (Radial)	C52	470uf /80v	Cap Pol1	1
LED2	Typical RED, GREEN, YELLOW, AMBER GaAs LED	D2, D4	0805D	LED2	2
1N5824		D3	SMA	二极管	1
ss14	1 Amp General Purpose Rectifier	D5, D6	DO-41	Diode 1N4001	2
BAV99	Silicon Switching Diode Array for High-Speed Switching	D7, D11	shuangxiangwenyagua n	BAV99	2
1N4002	High Conductance Fast Diode	D8, D9, D10, D12, D13, D14	DO-41	Diode 1N4148	6
Fuse 2A	Fuse	F1	1812	Fuse 2	1
Fuse 1	Fuse	F2	PCBComponent_1	Fuse 1	1
固定孔		gudingkong1, gudingkong2, gudingkong3, gudingkong4, gudingkong5	gudingkong	固定孔	5
303		H1	12*12diangan	贴片电感	1
DB9	Receptacle Assembly, 9 Position, Right Angle	J1	DSUB1.385-2H9	D Connector 9	1
微动开关		K1, K2, K3, K4, K5, K6	SW-SMT	微动开关	6
电源接头 15v	电源, 2-Pin	P1	偏脚接线端子 -	Header 2	1
隔离电源	Header, 4-Pin	P2	B0512s	Header 4	1
5110	Header, 8-Pin	P3	HDR1X8	Header 8	1
LM1117		P4	LM1117	LM1117	1
Header 4X2A	Header, 4-Pin, Dual	P5, P6	HDR2X4_CEN	Header 4X2A	2
HALL	Header, 4-Pin	P7	HALL	Header 4	1
Header 3	Header, 3-Pin	P8, P17	三脚接线端子	Header 3	2
Header 2	Header, 2-Pin	P9, P10, P11, P14,	HDR1X2	Header 2	5
电流测试点	Header, 2-Pin	P12	HDR1X2	Header 2	1
电压测试点	Header, 2-Pin	P13	HDR1X2	Header 2	1
Header 4	Header, 4-Pin	P15	整流桥	Header 4	1
NMOS-2	N-Channel Power MOSFET	Q1, Q2, Q3, Q4	TO-220 + 散热片	NMOS-2	4
Res1	Resistor	R1, R2, R7, R11	AXIAL-0.5	Res1	4
Res2	Resistor	R3, R17, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R33, R35, R37, R38, R40, R42, R43, R44, R45, R46, R47, R48, R50, R51	0805R	Res2	26
Res1	Resistor	R4, R6, R9, R14, R16	0805R	Res1	5
RESE		R5, R18, R41, R49	VR5	RESE	4
22R		R19, R20	0805R	R	2
SW-SPST	Single-Pole, Single-Throw Switch	S1	三脚开关	SW-SPST	1
SW-PB	Switch	S2	SW-SMT	SW-PB	1
ST-LINK		ST-LINK	IDC-10	ST-LINK	1
STM32F103RBT6		U1	LQFP64 - duplicate - duplicate	STM32F103RBT6	1
LM2596		U2	LM2596	LM2596	1
MAX3232CWE	+5V Powered RS-232 Driver/Receiver	U3	NSO16_N	MAX232CWE	1
ps8701		U4, U7	SOP-5	ps8701	2
2104		U5, U10	SO8_M	2104	2
lm358		U6, U12, U13, U14,	SO8_M	lm358	5
LM393		U8	751-02_N	LM393	1
32.768KHz	Crystal Oscillator	Y1	XTAL2	XTAL	1
8MHz	Crystal Oscillator	Y2	XTAL_US	XTAL	1
单接头		电流接头，电流接头 2	gudingkong01	单接头	2