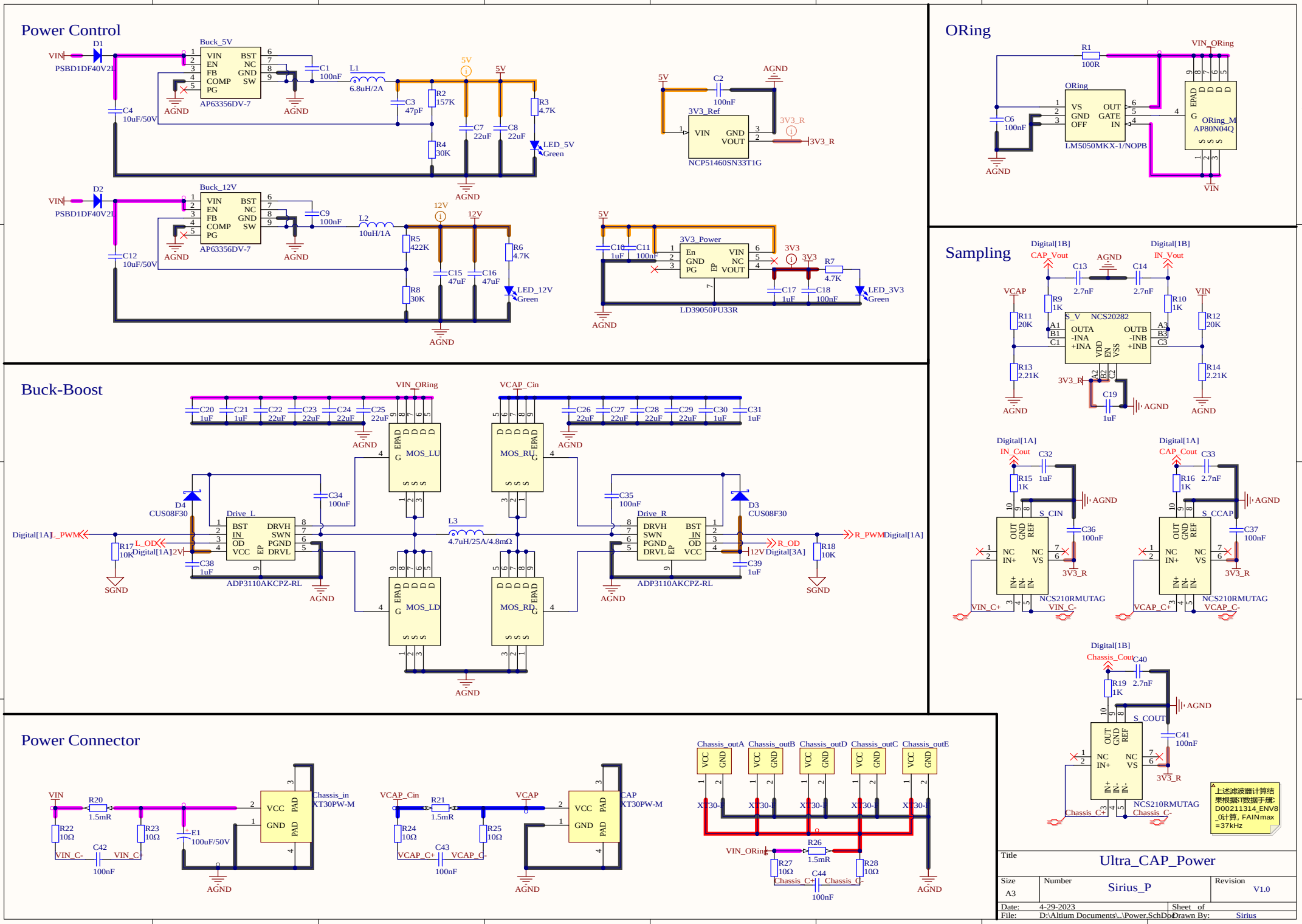
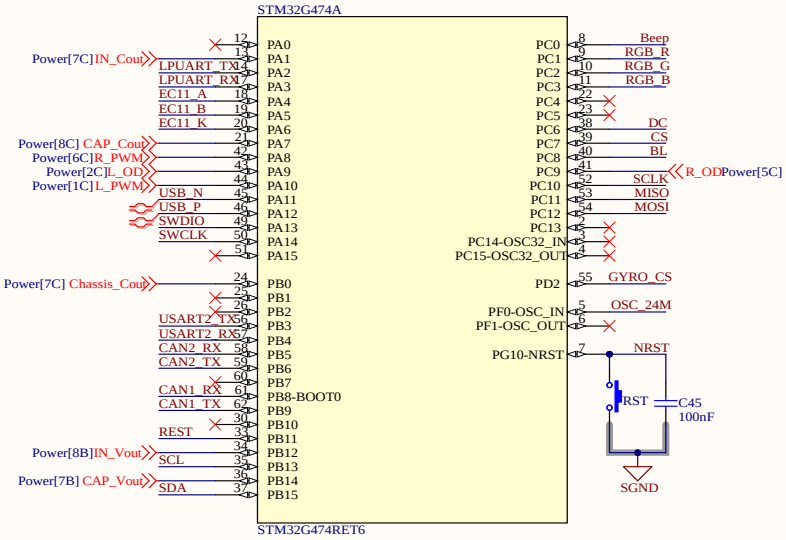
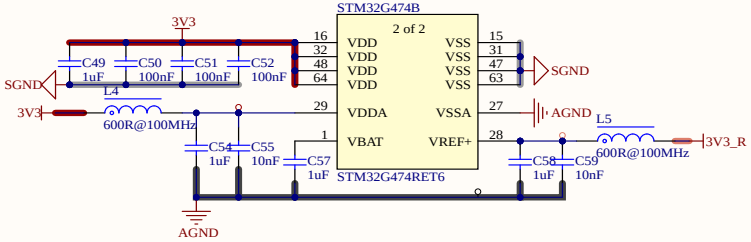
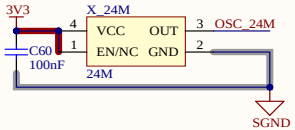

Power Control
Buck_5V
AP63356DV-7
Buck_12V
AP63356DV-7
3V3_Ref
NCP51460SN33T1G
3V3_Power
LD39050PU33R
ORing
LM5050MKX-1/NOPB
Sampling
NCS20282
NCS210RMUTAG
Buck-Boost
Drive_L
Drive_R
ADP3110AKCPZ-RL
MOS_LU
MOS_RU
MOS_LD
MOS_RD
Power Connector
Chassis_in
XT30PW-M
Ultra_CAP_Power
Sirius_P
V1.0
4-29-2023
D:\Altium Documents\..\Power.SchDoc
Sirius

MCU

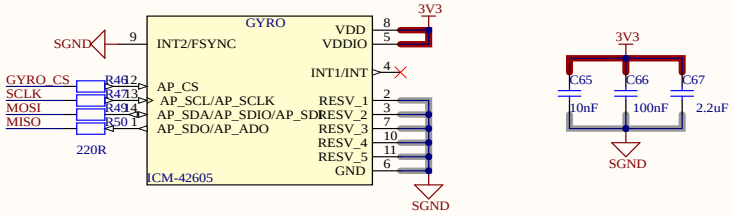




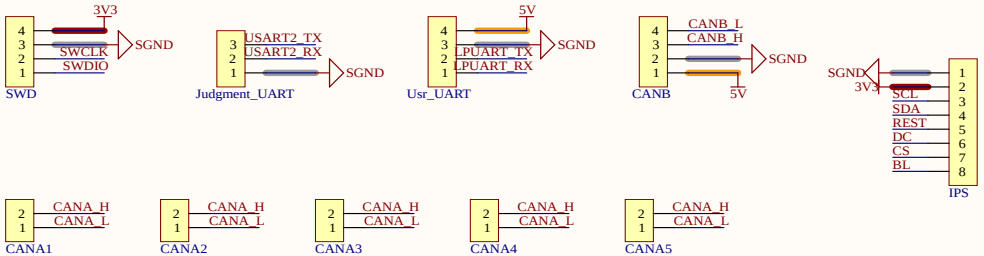


Mounting Hole

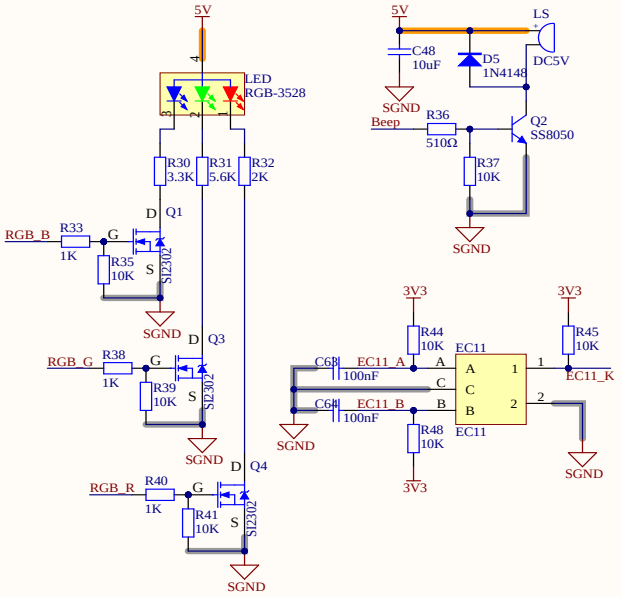
GYRO



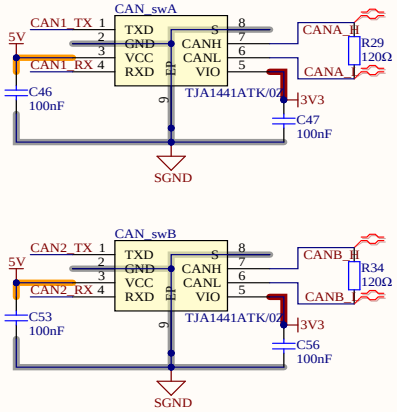
Connector



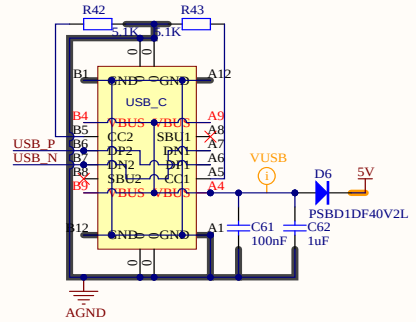
Usr_Interface



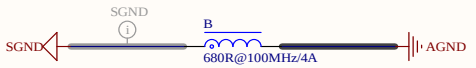
CAN



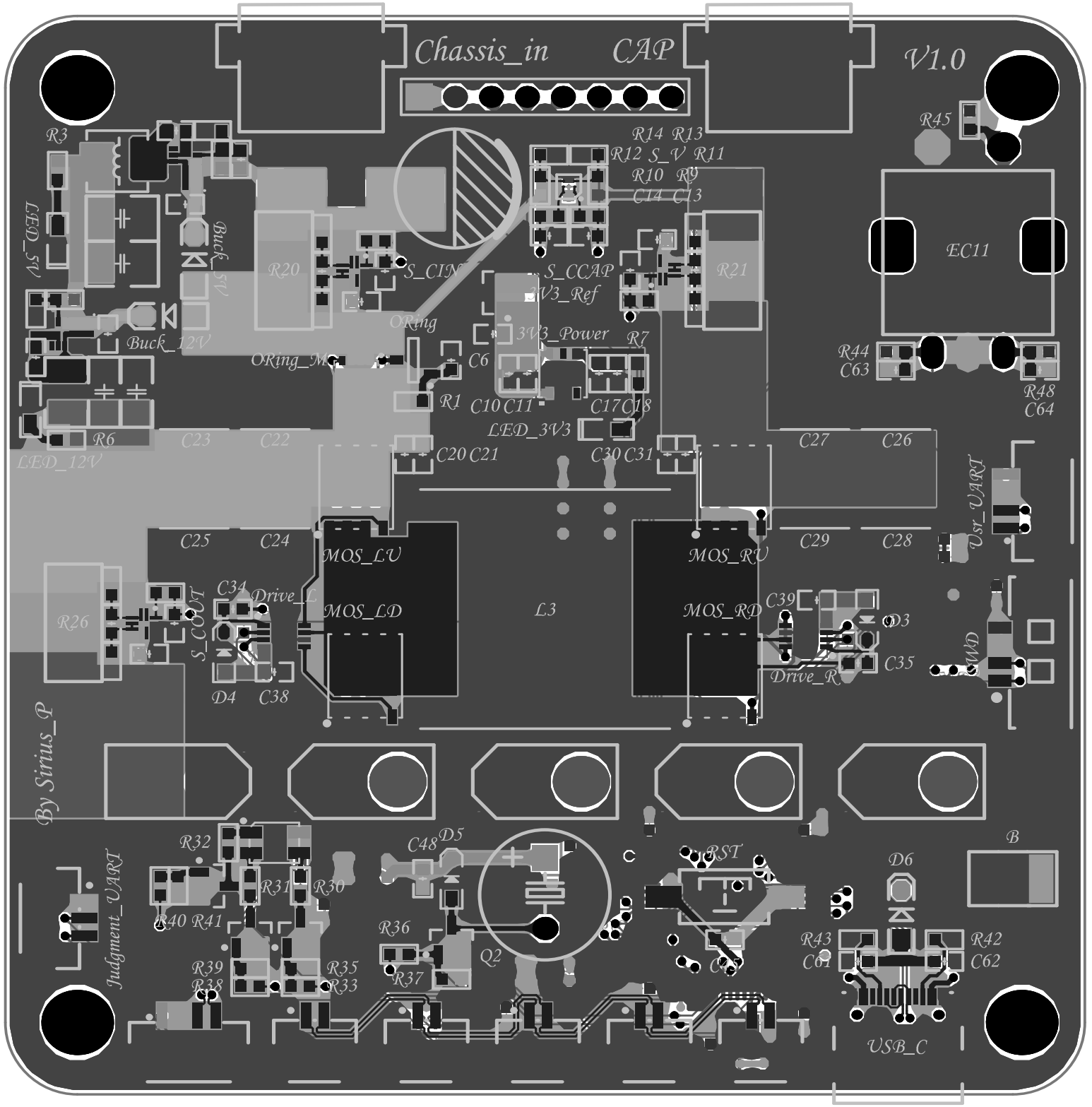
USB



Magnetic Bead



Title	Ultra_CAP_Digital	
Size: A3	Number: Sirius_P	Revision: V1.0
Date: 4-29-2023	Sheet of	
File: D:\Altium Documents\..\Digital.SchDoc	Drawn By: Sirius	


Chassis_in
CAP
V1.0
By Sirius_P
R3
LED_5V
Buck_5V
Buck_12V
R20
S_CIN
S_CCAP
3V3_Ref
ORing
ORing_MOS
3V3_Power
R7
C6
R1
C10
C11
C17
C18
LED_3V3
R6
LED_12V
C23
C22
C20
C21
C30
C31
R14
R13
R12
S_V
R11
R10
R9
C14
C13
R21
R45
EC11
R44
C63
R48
C64
C27
C26
Usr_UART
C25
C24
MOS_LU
MOS_LD
L3
MOS_RU
MOS_RD
C29
C28
R26
S_OUT
C34
Drive_L
D4
C38
C39
D3
C35
Drive_R
SWD
R32
R31
R30
R40
R41
C48
D5
R36
R39
R38
R35
R33
R37
Q2
RST
C
D6
B
R43
C61
R42
C62
Judgment_UART
USB_C

Comment	Description	Designator	Footprint	LibRef	Quantity
LD39050PU33R	LDO-3V3/500mA	3V3_Power	SON_DFN6_3X3_STM-L	LD39050PU33R	1
NCP51460SN33T1G	基准电压源3V3	3V3_Ref	SOT23	NCP51460SN33T1G	1
600R@100MHz/4A	磁珠	B	R1812_L	FB	1
AP63356DV-7	Switching Voltage Regulators DCDC Conv HV Buck V-DFN3020-13 T&R 3K 3.8V TO 32V INPUT, 3.5A LOW I SYNCHRONOUS BUCK WITH ENHANCED EMI REDUCTION	Buck_5V, Buck_12V	AP63356DV7	AP63356DV-7	2
100nF	贴片电容, VDD滤波电容	C1, C2, C6, C9, C11, C18, C34, C35, C36, C37, C41, C42, C43, C44, C45, C46, C47, C50, C51, C52, C53, C56, C60, C61, C63, C64, C66	C0603_L	C	27
47pF	贴片电容	C3	C0603_L	C	1
10uF/50V	贴片电容	C4, C12	C0603_L	C	2
22uF	贴片电容	C7, C8	C1210_L	C	2
1uF	贴片电容	C10, C17, C19, C20, C21, C30, C31, C32, C38, C39, C49, C54, C57, C58, C62	C0603_L	C	15
2.7nF	贴片电容	C13, C14, C33, C40	C0603_L	C	4
47uF	贴片电容	C15, C16	C1206_L	C	2
22uF	贴片电容	C22, C23, C24, C25, C26, C27, C28, C29	C2220_no overlay	C	8
10uF	贴片电容	C48	C0603_L	C	1
10nF	贴片电容, VDDIO滤波电容	C55, C59, C65	C0603_L	C	3
2.2uF	VDD滤波电容	C67	C0603_L	C	1
TJA1441ATK/0Z	CAN电平转换芯片	CAN_swA, CAN_swB	SON65P300X300X100-9N-D	TJA1441ATK/0Z	2
HDR-1X2	2P连接器	CANA1, CANA2, CANA3, CANA4, CANA5	CONN-SMD_2P-P1.25_JUSHUO_GH25-S02DCA-00	Header 2	5
HDR-1X4	4P连接器	CANB, Usr_UART	CONN-SMD_4P-P1.27_GH125-S04DCA-00	Header 4	2
XT30PW-M		CAP, Chassis_in	CONN-TH_XT30PW-M	XT30PW-M	2
XT30-F		Chassis_outA, Chassis_outB, Chassis_outC, Chassis_outD, Chassis_outE	XT30-F	XT30-F	5
PSBD1DF40V2L	肖特基二极管	D1, D2, D6	SOD-123	1N5822	3
CUS08F30	肖特基二极管	D3, D4	SOD-323	1N5819	2
1N4148	开关二极管	D5	SOD-323	1N4148	1
ADP3110AKCPZ-R	ON SEMICONDUCTOR ADP3110AKCPZ-R - MOSFET Driver, High Side And Low Side, 4.6V-13.2V Supply, 1A Out, 20 Delay, DFN-8	Drive_L, Drive_R	SON50P300X300X100-9N	ADP3110AKCPZ-RL	2
100uF/50V	直插固态电容	E1	CT 3.5*8*8 - R	CS	1
EC11	数字开关编码器	EC11	EC11	EC11	1
ICM-42605	Accelerometer, Gyroscope, 6 Axis Sensor IÂ²C, I3CâĦ, SPI Output	GYRO	PQFN50P300X250X97-14N - duplicate	ICM-42605	1
HDR-1X8	8P接插件	IPS	HDR2.54-M-LI-8P	Header 8	1
HDR-1X3	3P连接器	Judgment_UART	CONN-SMD_3P-P1.25_JUSHUO_GH25-S03DCA-00	Header 3	1
6.8uH/2A	一体成型电感	L1	L-SMD-0420	L-Molding Choke	1
10uH/1A	贴片小功率电感	L2	L1210	L	1
4.7uH/25A/4.8mΩ	一体成型电感 TMPC1707HP-4R7MG-D	L3	INDPM176169X706N	L-Molding Choke	1
600R@100MHz	磁珠	L4, L5	R0603_L	FB	2
RGB-3528	3528三基色LED	LED	LED 3528-4Pin	LED-RGB 3528	1
Green	贴片LED	LED_3V3, LED_5V, LED_12V	LED0603_G	LED-SMD	3
DC5V	蜂鸣器	LS	BEEP 5x9x5.5	BEEP	1
M3	铜柱孔	M3A, M3B, M3C, M3D	M3 125X200	M3	4
HYG025N06LS1C2	NMOS 60V/170A	MOS_LD, MOS_LU, MOS_RD, MOS_RU	PDFN5*6-8I	HYG025N06LS1C2	4
LM5050MKX-1/NOPB	理想二极管控制器	ORing	SOT23-6	LM5050MKX-1/NOPB	1
AP80N04Q	Trans MOSFET N-CH 40V 40A 8-Pin PDFN EP T/R	ORing_M	TDFN33-8	AP80N04Q	1
SI2302	N沟道 20V/6A	Q1, Q3, Q4	SOT23-3N	AO3400	3
SS8050	表贴放大-NPN型	Q2	SOT23-3N	8050-SMD	1
100R	贴片电阻	R1	R0603_L	R	1
157K	贴片电阻	R2	R0603_L	R	1
4.7K	贴片电阻	R3, R6, R7	R0603_L	R	3
30K	贴片电阻	R4, R8	R0603_L	R	2
422K	贴片电阻	R5	R0603_L	R	1
1K	贴片电阻	R9, R10, R15, R16, R19, R33, R38, R40	R0603_L	R	8
20K	贴片电阻	R11, R12	R0603_L	R	2
2.21K	贴片电阻	R13, R14	R0603_L	R	2
10K	贴片电阻	R17, R18, R35, R37, R39, R41, R44, R45, R48	R0603_L	R	9
1.5mR	贴片电阻	R20, R21, R26	R2512_L	R	3
10Ω	贴片电阻	R22, R23, R24, R25, R27, R28	R0603_L	R	6
120Ω	贴片电阻	R29, R34	R0603_L	R	2
3.3K	贴片电阻	R30	R0603_L	R	1
5.6K	贴片电阻	R31	R0603_L	R	1
2K	贴片电阻	R32	R0603_L	R	1
510Ω	贴片电阻	R36	R0603_L	R	1
5.1K	贴片电阻	R42, R43	R0603_L	R	2
220R	贴片电阻	R46, R47, R49, R50	R0603_L	R	4
3x6x5	3x6轻触开关	RST	SW_SMD_3*6*5	SW_3x6	1
NCS210RMUTAG	CURRENT SENSE AMP G=200	S_CCAP, S_CIN, S_COUT	QFN40P140X180X60-10N	NCS210RMUTAG	3
NCS20282	7 MHz, 125 A Low Power Operational Amplifier	S_V	BGA9C40P3X3_122X122X62	NCS20282	1
STM32G474RET6	MCU	STM32G474	LQFP64-10*10	STM32G474RET6	1
HDR-1X4	4P连接器	SWD	MX1.25-WS-4P	Header 4	1
TYPE-C 2.0 -16P	USB2.0 Type-C 16Pin 母座	USB_C	USB-C-SMD_16P	USB2.0_Type-C_16Pin	1
24M	4脚有源晶振(振荡器)	X_24M	OSC-2025-4P	XTAL-ACT-4P	1