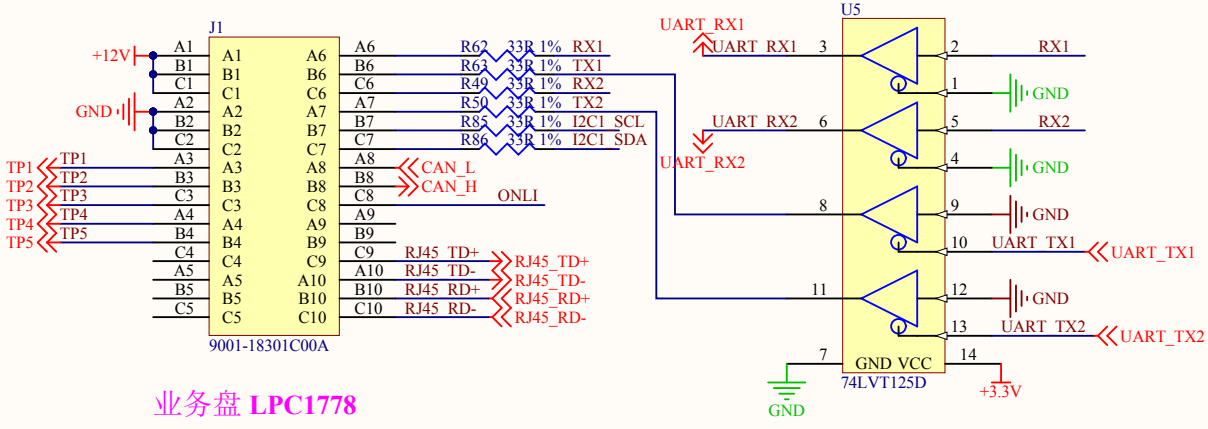
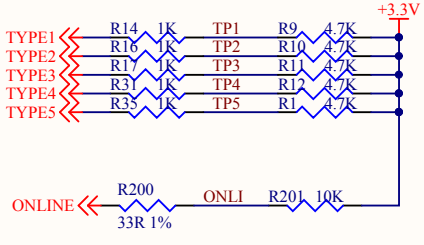
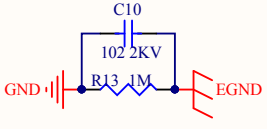
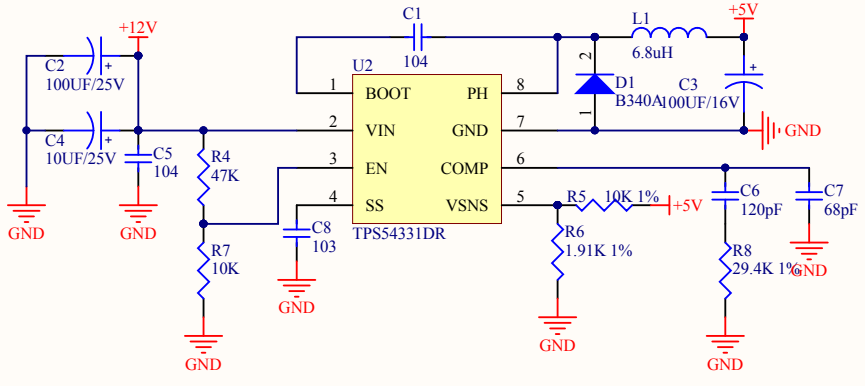
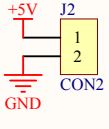


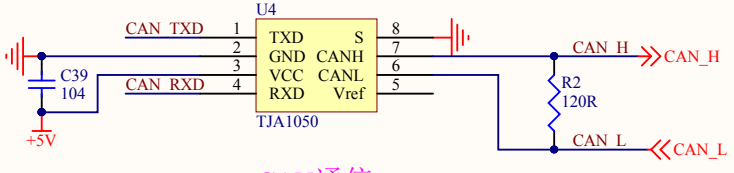
业务盘 **LPC1778**





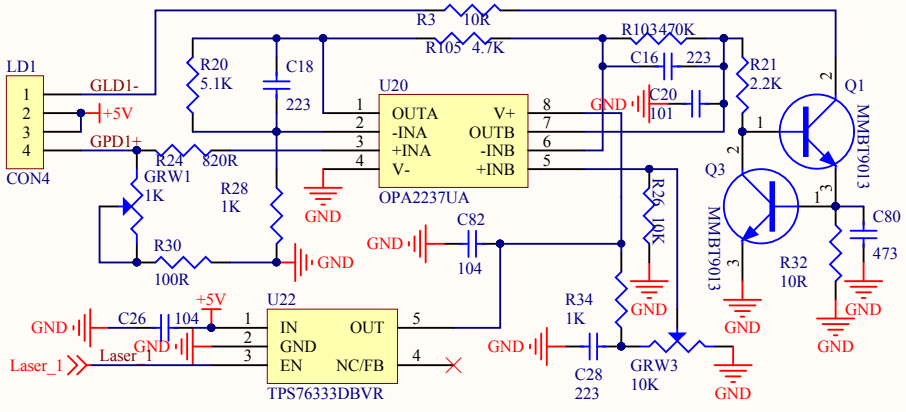


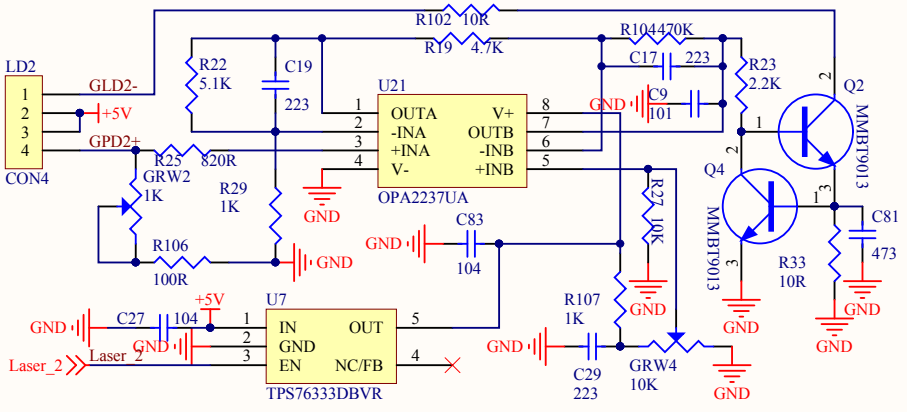


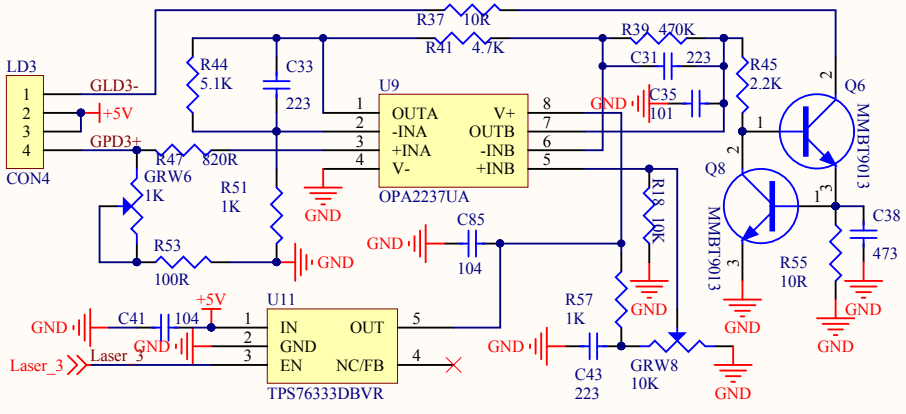


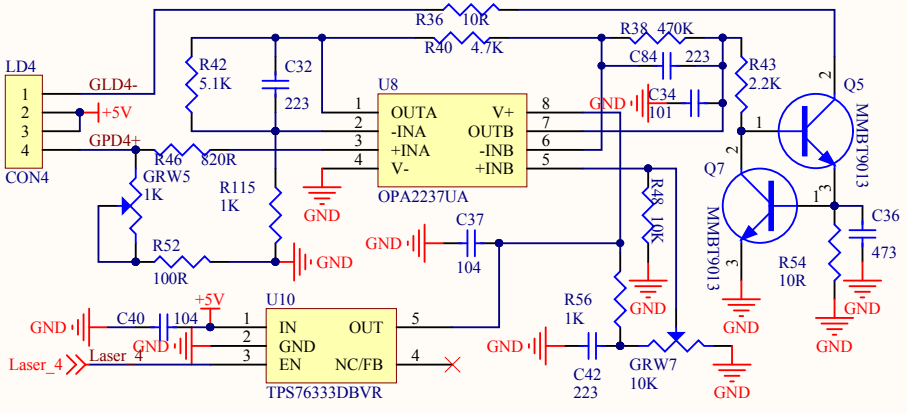
CAN通信

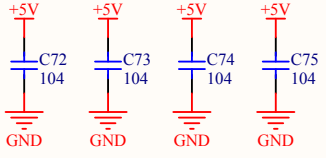
桂林恒毅金宇通信技术有限公司			
电路名称	*		
受控编号	*		
制图	*	版本	*
审核	*		
日期	*		*











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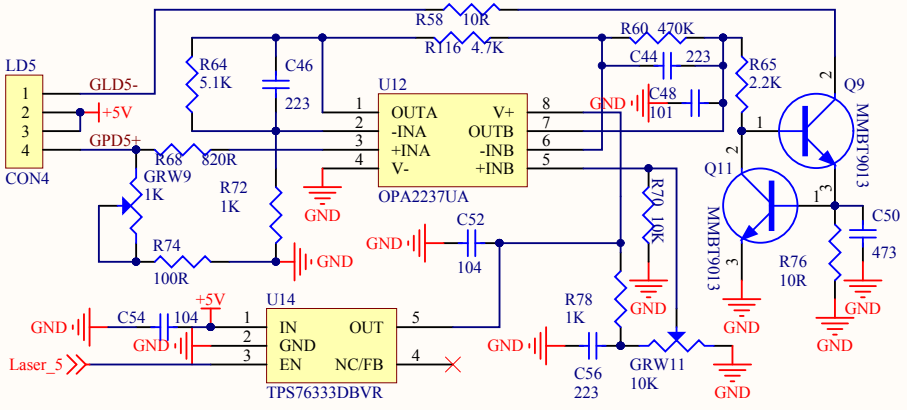
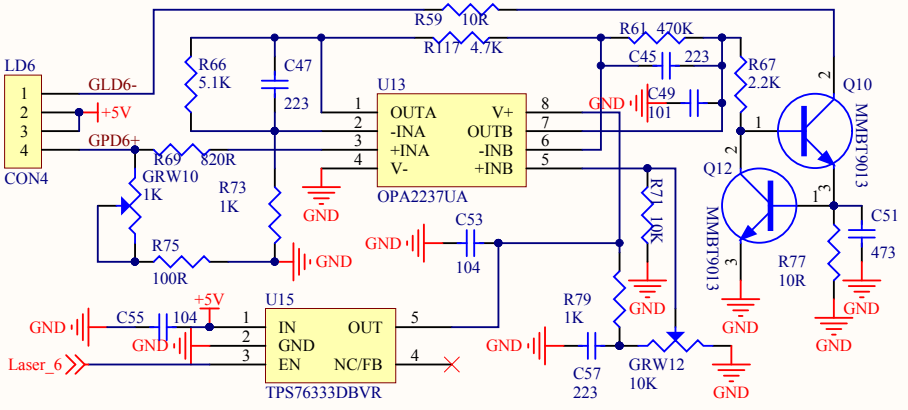
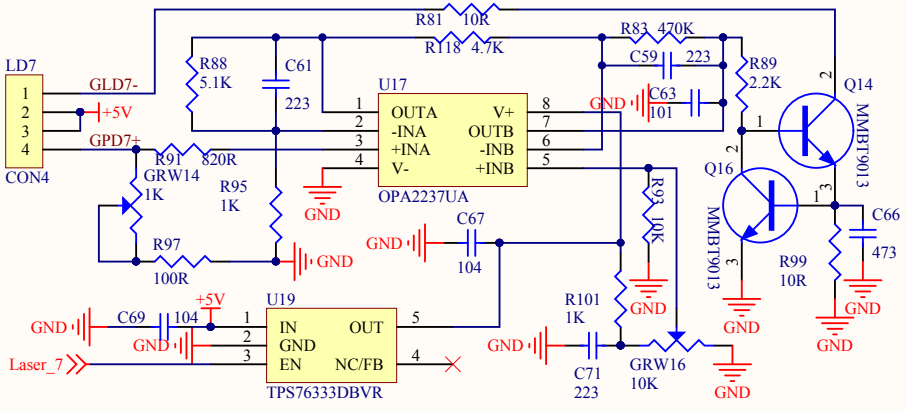
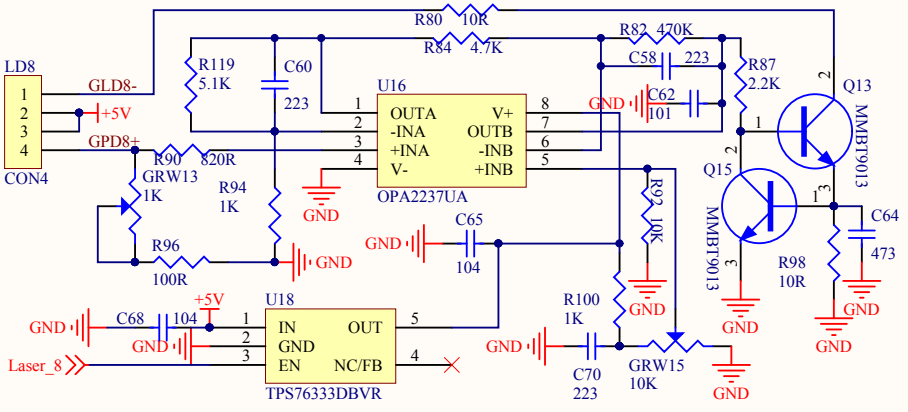
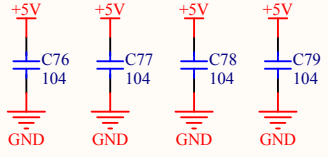
审核	*		
日期	*	*	











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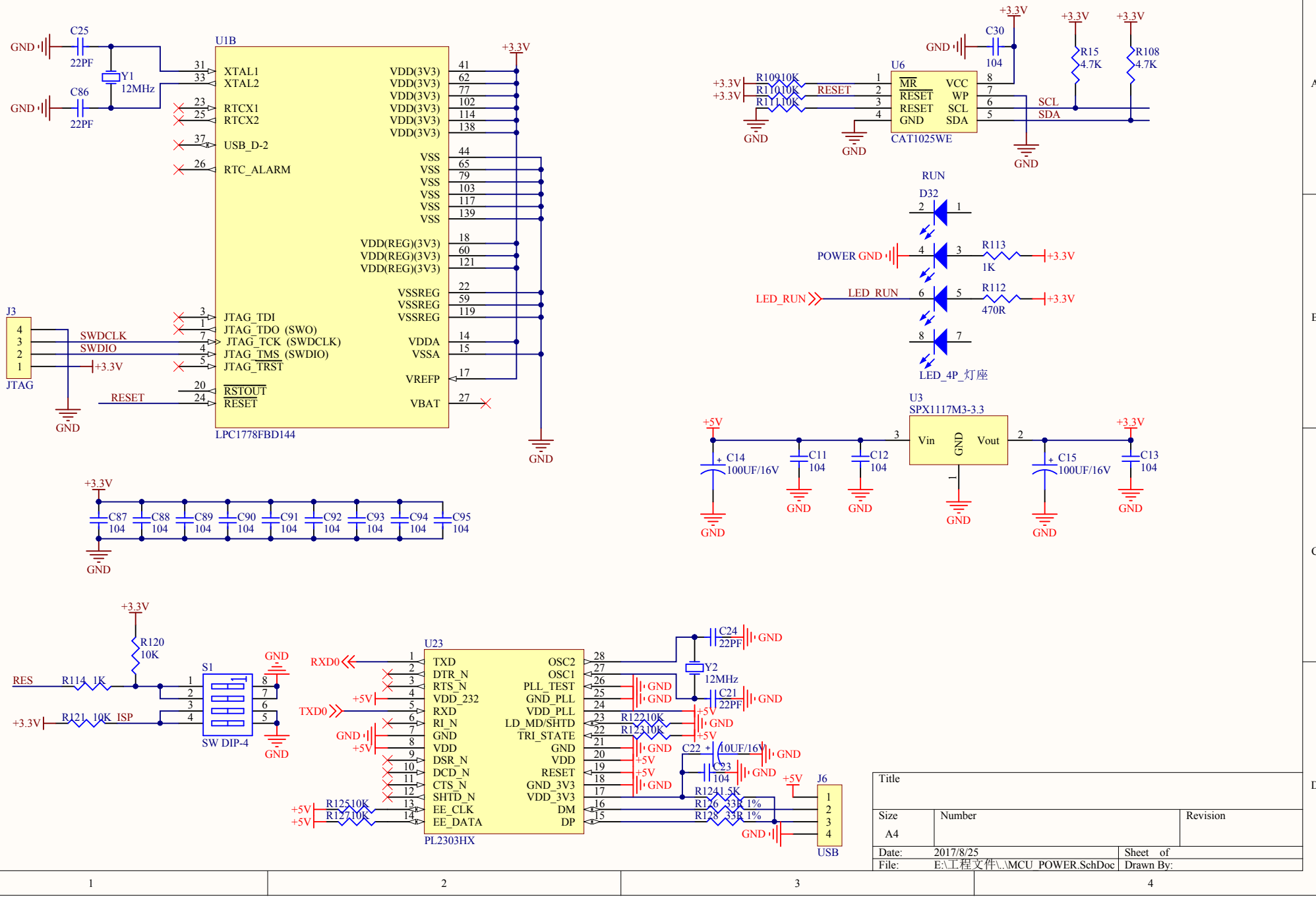
日期	*		*


U1B
LPC1778FBD144
XTAL1
XTAL2
RTCX1
RTCX2
USB_D-2
RTC_ALARM
JTAG_TDI
JTAG_TDO (SWO)
JTAG_TCK (SWDCLK)
JTAG_TMS (SWDIO)
JTAG_TRST
RSTOUT
RESET
VDD(3V3)
VSS
VDD(REG)(3V3)
VSSREG
VDDA
VSSA
VREFP
VBAT
C25
22PF
C86
22PF
Y1
12MHz
J3
JTAG
SWDCLK
SWDIO
RESET
U6
CAT1025WE
MR
RESET
WP
SCL
SDA
C30
104
R15
4.7K
R108
4.7K
R109 10K
R110 10K
R111 10K
RUN
D32
POWER
LED_RUN
R113
1K
R112
470R
LED_4P_灯座
U3
SPX1117M3-3.3
Vin
GND
Vout
C14
100UF/16V
C11
104
C12
104
C15
100UF/16V
C13
104
C87
104
C88
104
C89
104
C90
104
C91
104
C92
104
C93
104
C94
104
C95
104
R120
10K
S1
SW DIP-4
RES
R114 1K
R121 10K ISP
U23
PL2303HX
TXD
DTR_N
RTS_N
VDD_232
RXD
RI_N
DSR_N
DCD_N
CTS_N
SHTD_N
EE_CLK
EE_DATA
OSC2
OSC1
PLL_TEST
GND_PLL
VDD_PLL
LD_MD/SHTD
TRI_STATE
VDD_3V3
DM
DP
RXD0
TXD0
C24
22PF
Y2
12MHz
C21
22PF
R122 10K
R123 10K
C22
10UF/16V
C23
104
R124 1.5K
R126 33R 1%
R128 33R 1%
R125 10K
R127 10K
J6
USB
Title
Size
A4
Number
Revision
Date:
2017/8/25
Sheet of
File:
E:\工程文件\..\MCU_POWER.SchDoc
Drawn By:

Comment	Description	Designator	Footprint	LibRef	Quantity
104	D04.01.00012	C1, C5, C11, C12, C13, C23, C26, C27, C30, C37, C39, C40, C41, C52, C53, C54, C55, C65, C67, C68, C69, C72, C73, C74, C75, C76, C77, C78, C79, C82, C83, C85, C87, C88, C89, C90, C91, C92, C93, C94, C95	C0805	CAP	41
100UF/25V	D04.03.00005	C2	RB.1/.2	CAPACITOR POL	1
100UF/16V	D04.02.00005	C3, C14, C15	7243	CAPACITOR POL	3
10UF/25V	D04.03.00002	C4	RB.1/.2	CAPACITOR POL	1
120pF	D04.01.00020	C6	C0805	CAP	1
68pF	D04.01.00021	C7	C0805	CAP	1
103	D04.01.00009	C8	C0805	CAP	1
101	D04.01.00005	C9, C20, C34, C35, C48, C49, C62, C63	C0805	CAP	8
102 2KV	D04.01.00024	C10	1206	CAP	1
223	D04.01.00010	C16, C17, C18, C19, C28, C29, C31, C32, C33, C42, C43, C44, C45, C46, C47, C56, C57, C58, C59, C60, C61, C70, C71, C84	C0805	CAP	24
22PF	D04.01.00002	C21, C24, C25, C86	C0805	CAP	4
10UF/16V	D04.02.00002	C22	3528	CAPACITOR POL	1
473	D04.01.00011	C36, C38, C50, C51, C64, C66, C80, C81	C0805	CAP	8
B340A	D05.04.00010	D1	SMA (DO-214AC)	DIODE	1
LED_4P_灯座	D05.07.00023	D32	LED_4P_方灯	LED_4P_灯座	1
1K	D03.03.00001	GRW1, GRW2, GRW5, GRW6, GRW9, GRW10, GRW13, GRW14	3266W	POT1	8
10K	D03.03.00002	GRW3, GRW4, GRW7, GRW8, GRW11, GRW12, GRW15, GRW16	3266W	POT1	8
9001-18301C00A	D14.08.00008	J1	9001-18301C00A	9001-18301C00A	1
CON2		J2	HDR1X2	CON2	1
JTAG		J3	HDR1X4	CON4	1
USB	D14.06.00001	J6	USB-HOST	CON4	1
6.8uH	D10.02.00012	L1	MHCI06030-6R8M	INDUCTOR	1
CON4		LD1, LD2, LD3, LD4, LD5, LD6, LD7, LD8	LASER	CON4	8
MMBT9013	D06.01.00001	Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15, Q16	SOT-23	NPN	16
4.7K	D03.01.00028	R1, R9, R10, R11, R12, R15, R19, R40, R41, R84, R105, R108, R116, R117, R118	R0805	RESISTANCE	15
120R	D03.01.00105	R2	R0805	RESISTANCE	1
10R	D03.01.00089	R3, R32, R33, R36, R37, R54, R55, R58, R59, R76, R77, R80, R81, R98, R99, R102	R0805	RESISTANCE	16
47K	D03.01.00082	R4	R0805	RESISTANCE	1
10K 1%	D03.01.00071	R5	R0805	RESISTANCE	1
1.91K 1%	D03.01.00094	R6	R0805	RESISTANCE	1
10K	D03.01.00037	R7, R18, R26, R27, R48, R70, R71, R92, R93, R109, R110, R111, R120, R121, R122, R123, R125, R127, R201	R0805	RESISTANCE	19
29.4K 1%	D03.01.00095	R8	R0805	RESISTANCE	1
1M	D03.01.00058	R13	1206	RES1	1
1K	D03.01.00019	R14, R16, R17, R28, R29, R31, R34, R35, R51, R56, R57, R72, R73, R78, R79, R94, R95, R100, R101, R107, R113, R114, R115	R0805	RESISTANCE	23
5.1K	D03.01.00031	R20, R22, R42, R44, R64, R66, R88, R119	R0805	RESISTANCE	8
2.2K	D03.01.00078	R21, R23, R43, R45, R65, R67, R87, R89	R0805	RES1	8
820R	D03.01.00085	R24, R25, R46, R47, R68, R69, R90, R91	R0805	RESISTANCE	8
100R	D03.01.00090	R30, R52, R53, R74, R75, R96, R97, R106	R0805	RESISTANCE	8
470K	D03.01.00081	R38, R39, R60, R61, R82, R83, R103, R104	R0805	RESISTANCE	8
33R 1%	D03.01.00066	R49, R50, R62, R63, R85, R86, R126, R128, R200	R0805	RESISTANCE	9
470R	D03.01.00087	R112	R0805	RESISTANCE	1
1.5K	D03.01.00037	R124	R0805	RESISTANCE	1
SW DIP-4	D15.04.00004	S1	DIP SWITCH4-V	SW DIP-4	1
LPC1778FBD144	D02.02.00003	U1	LQFP144	LPC1778FBD144	1
TPS54331DR	D02.01.00008	U2	SOIC8	TPS54331DR	1
SPX1117M3-3.3	D02.01.00002	U3	SOT-223	SPX1117	1
TJA1050	D02.06.00009	U4	SOP8	TJA1050	1
74LVT125D	D02.04.00016	U5	SOIC14	74LVT125	1
CAT1025WE	D02.05.00002	U6	SOIC8	CAT1025WE	1
TPS76333DBVR	D02.01.00004	U7, U10, U11, U14, U15, U18, U19, U22	SOT23-5	TPS76333DBVR	8
OPA2237UA	D02.07.00001	U8, U9, U12, U13, U16, U17, U20, U21	SOIC8	OPA2237UA	8
PL2303HX	D02.06.00004	U23	SSOP-28	PL2303HX	1
12MHz	D09.01.00003	Y1, Y2	HC-49S	CRYSTAL	2