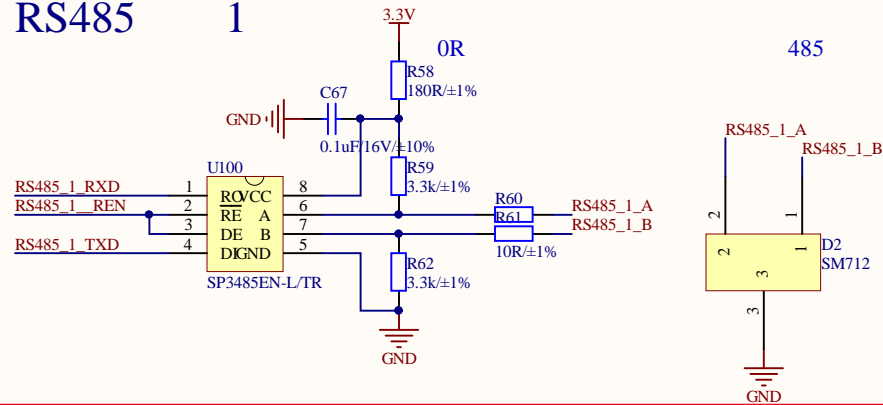


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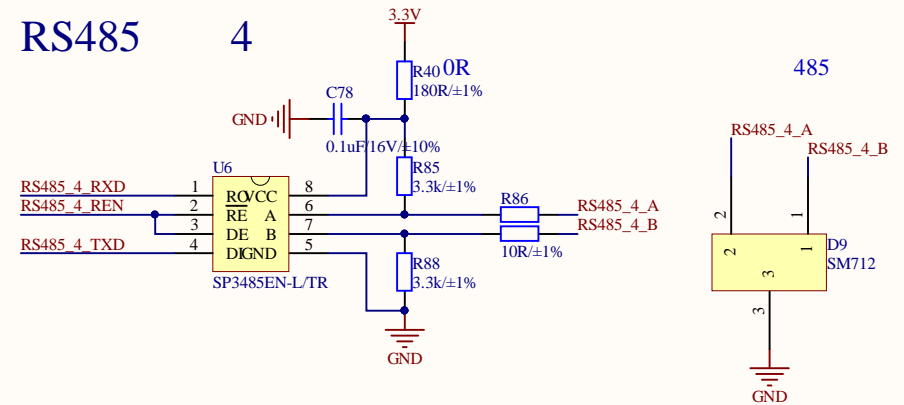
RS485

1



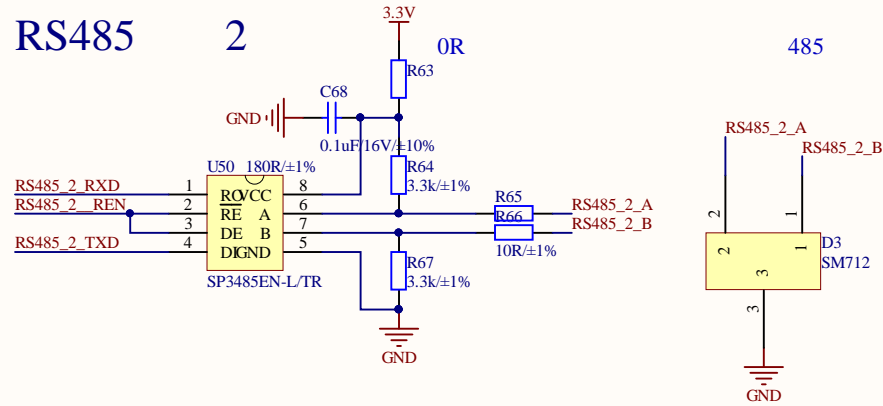
RS485

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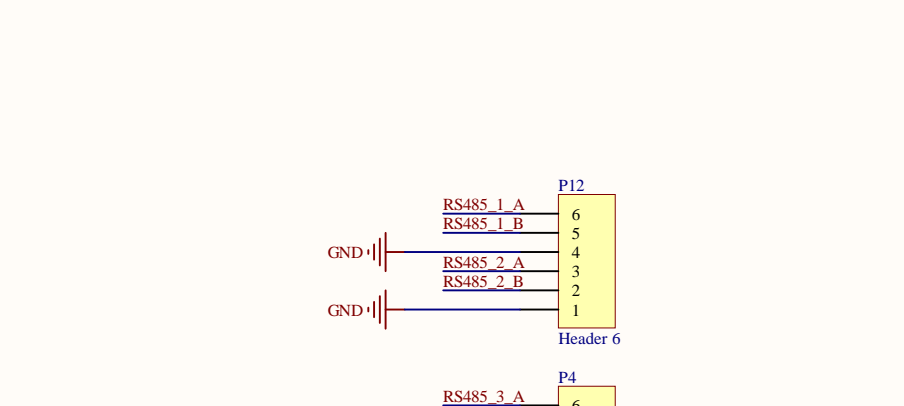
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2



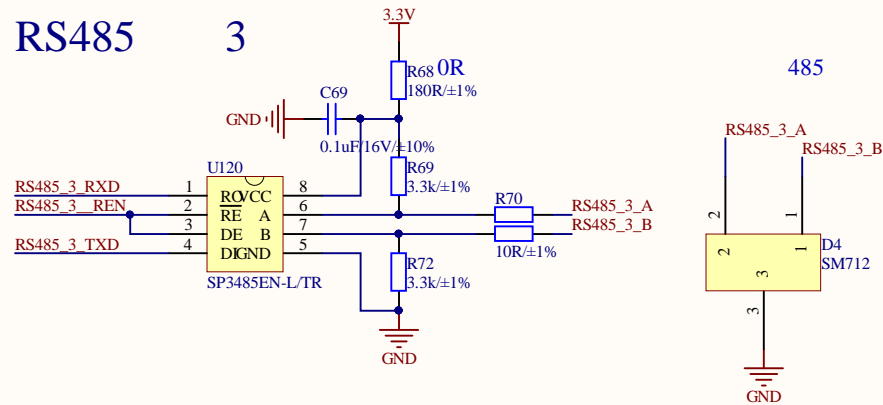
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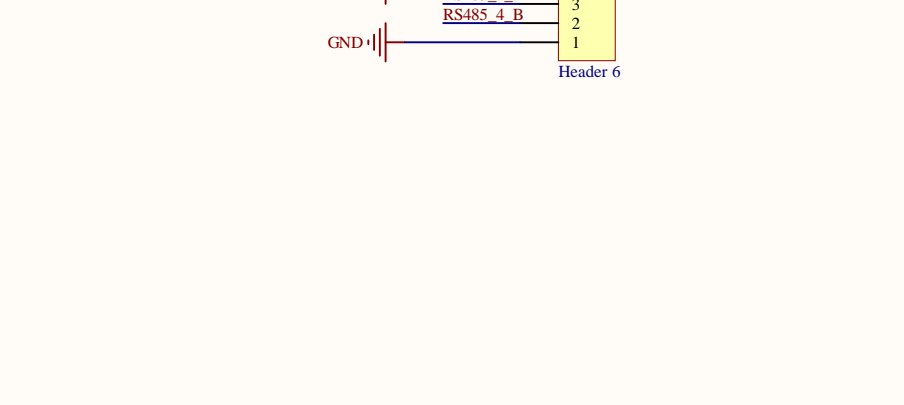
RS485

3



RS485

4



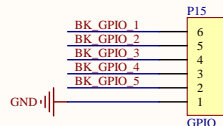
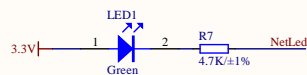
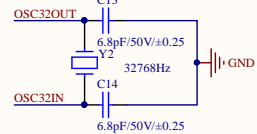
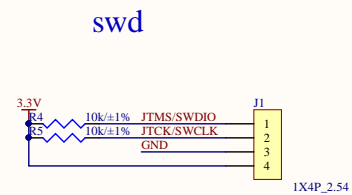
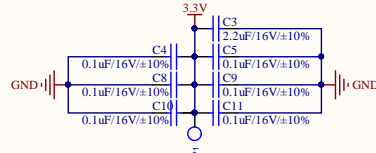
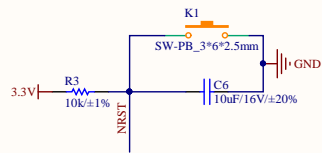
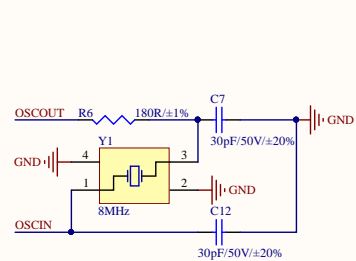


## MCU

BK GPIO_1	1	PE2/TRACCLK/SP4_SCK/SAI1_MCLK_A/ETH_MII_TXD3/FMC_A23
BT_PW_C	2	PE3/TRACED0/SAI1_SD_B/FMC_A19
4G_STATUS	3	PE4/TRACED1/SP4_NSS/SAI1_FS_A/FMC_A20/DCMI_D4/LCD_B0
4GRESET	4	PE5/TRACED2/TIM9_CH1/SP4_MISO/SAI1_SCK_A/FMC_A21/DCMI_D6/LCD_G0
4GPOWKEY	5	PE6/TRACED3/TIM9_CH2/SP4_MOSI/SAI1_SD_A/FMC_A22/DCMI_D7/LCD_G1
3.3V	6	VBAT
OSC32IN	7	PC13/TEMP_1
OSC32OUT	8	PC14/OSC32_IN
GND	9	PC15/OSC32_OUT
3.3V	10	VSS
OSCIN	11	VDD
OSCOUT	12	PH0/OSC_IN
NRST	13	PH1/OSC_OUT
NRST	14	NRST
LOT_RST	15	PC0/OTG_HS_ULPI_STP/FMC_SDNWE/ADC123_IN10
PC1/ETH_MDC/ADC123_IN11	16	PC1/ETH_MDC/ADC123_IN11
PC2/SP12_MISO/I2S2ext_SD/OTG_HS_ULPI_DIR/ETH_MII_TXD2/FMC_SDNE0/ADC123_IN12	17	PC2/SP12_MISO/I2S2ext_SD/OTG_HS_ULPI_DIR/ETH_MII_TXD2/FMC_SDNE0/ADC123_IN12
PC3/SP12_MOSI/I2S2_SD/OTG_HS_ULPI_NXT/ETH_MII_TX_CLK/FMC_SDCKE0/ADC123_IN13	18	PC3/SP12_MOSI/I2S2_SD/OTG_HS_ULPI_NXT/ETH_MII_TX_CLK/FMC_SDCKE0/ADC123_IN13
3.3V	19	VDD
VSSA	20	VSSA
VREF+	21	VREF+
VDDA	22	VDDA
PA0-WKUP/TIM2_CH1/TIM2_ETR/TIM5_CH1/TIM8_ETR/USART4_TX/ETH_MII_CRD/ADC123_IN0	23	PA0-WKUP/TIM2_CH1/TIM2_ETR/TIM5_CH1/TIM8_ETR/USART4_TX/ETH_MII_CRD/ADC123_IN0
PA1/TIM2_CH2/TIM5_CH2/USART2_RTS/UART4_RX/ETH_MII_RX_CLK/ETH_RMII_REF_CLK/ADC123_IN1	24	PA1/TIM2_CH2/TIM5_CH2/USART2_RTS/UART4_RX/ETH_MII_RX_CLK/ETH_RMII_REF_CLK/ADC123_IN1
PA2/TIM2_CH3/TIM5_CH3/TIM9_CH1/USART2_TX/ETH_MDIO/ADC123_IN2	25	PA2/TIM2_CH3/TIM5_CH3/TIM9_CH1/USART2_TX/ETH_MDIO/ADC123_IN2
PA3/TIM2_CH4/TIM5_CH4/TIM9_CH2/USART2_RX/OTG_HS_ULPI_D0/ETH_MII_COL/LCD_B5/ADC123_IN3	26	PA3/TIM2_CH4/TIM5_CH4/TIM9_CH2/USART2_RX/OTG_HS_ULPI_D0/ETH_MII_COL/LCD_B5/ADC123_IN3
GND	27	VSS
3.3V	28	VDD
SP11_NSS	29	PA4/SP11_NSS/SP13_NSS/I2S3_WS/USART2_CK/OTG_HS_SOF/DCMI_HSYNC/LCD_VSYNC/ADC12_IN4/DAC_OUT1
SP11_SCK	30	PA5/TIM2_CH1/TIM2_ETR/TIM8_CH1N/SP11_SCK/OTG_HS_ULPI_CK/ADC12_IN5/DAC_OUT2
SP11_MISO	31	PA6/TIM1_BKIN/TIM3_CH1/TIM8_BKIN/SP11_MISO/TIM13_CH1/DCMI_PIXCLK/LCD_G2/ADC12_IN6
SP11_MOSI	32	PA7/TIM1_CH1N/TIM3_CH2/TIM8_CH1N/SP11_MOSI/TIM14_CH1/ETH_MII_RX_DV/ETH_RMII_CRD_DV/ADC12_IN7
ADIN1	33	PC4/ETH_MII_RXD0/ETH_RMII_RXD0/ADC12_IN14
ADIN2	34	PC5/ETH_MII_RXD1/ETH_RMII_RXD1/ADC12_IN15
3.3V	35	PB0/TIM1_CH2N/TIM3_CH3/TIM8_CH2N/LCD_R3/OTG_HS_ULPI_D1/ETH_MII_RXD2/ADC12_IN8
3.3V	36	PB1/TIM1_CH3N/TIM3_CH4/TIM8_CH3N/LCD_R6/OTG_HS_ULPI_D2/ETH_MII_RXD3/ADC12_IN9
3.3V	37	PB2/BOOT1
3.3V	38	PE7/TIM1_ETR/UART7_RX/FMC_D4
3.3V	39	PE8/TIM1_CH1N/UART7_TX/FMC_D5
3.3V	40	PE9/TIM1_CH1/FMC_D6
3.3V	41	PE10/TIM1_CH2N/FMC_D7
3.3V	42	PE11/TIM1_CH2/SP4_NSS/FMC_D8/LCD_G3
3.3V	43	PE12/TIM1_CH3N/SP4_SCK/FMC_D9/LCD_B4
3.3V	44	PE13/TIM1_CH3/SP4_MISO/FMC_D10/LCD_DE
3.3V	45	PE14/TIM1_CH4/SP4_MOSI/FMC_D11/LCD_CLK
3.3V	46	PE15/TIM1_BKIN/FMC_D12/LCD_R7
3.3V	47	PB10/TIM2_CH3/I2C2_SCL/SP12_SCK/I2S2_CK/USART3_TX/OTG_HS_ULPI_D3/ETH_MII_RX_ER/LCD_G4
3.3V	48	PB11/TIM2_CH4/I2C2_SDA/USART3_RX/OTG_HS_ULPI_D4/ETH_MII_TX_EN/ETH_RMII_TX_EN/LCD_G5
3.3V	49	VCAP_1
3.3V	50	VDD

STM32F429VGT6

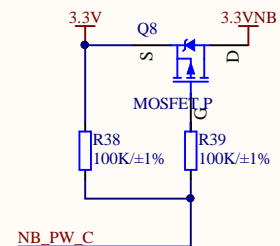
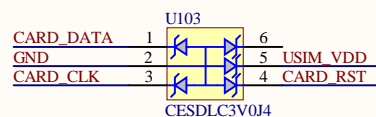
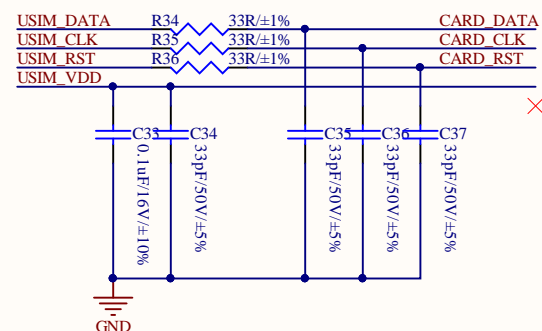
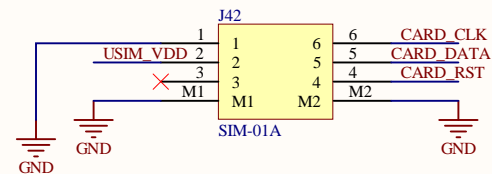
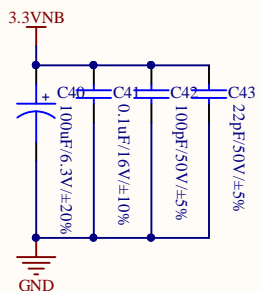
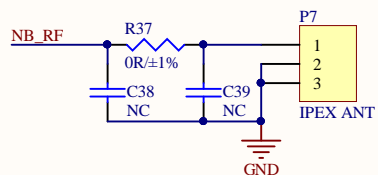
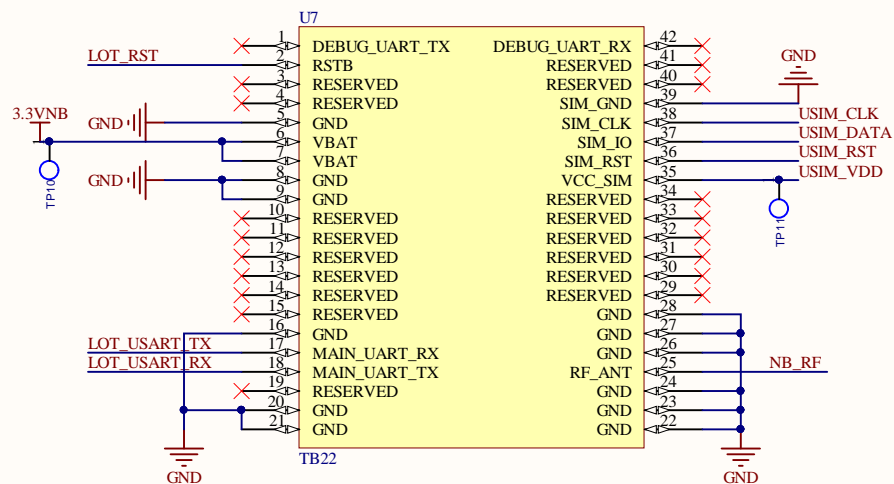
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VSS	99	GND
RS485_2_TXD	98	RS485_2_TXD
RS485_2_RXD	97	RS485_2_RXD
BK GPIO_2	96	BK GPIO_2
BK GPIO_3	95	BK GPIO_3
BOOT0	94	BOOT0
BK GPIO_4	93	BK GPIO_4
BK GPIO_5	92	BK GPIO_5
GSIM_NETLED	91	GSIM_NETLED
GSIM_SLEEP	90	GSIM_SLEEP
LINK	89	LINK
ETH_PW_C	88	ETH_PW_C
PD5/USART2_TX/FMC_NWE	87	PD5/USART2_TX/FMC_NWE
PD4/USART2_RTS/FMC_NOE	86	PD4/USART2_RTS/FMC_NOE
PD3/SP12_SCK/I2S2_CK/USART2_CTS/FMC_CLK/DCMI_D5/LCD_G7	85	PD3/SP12_SCK/I2S2_CK/USART2_CTS/FMC_CLK/DCMI_D5/LCD_G7
PD2/TIM3_ETR/UART5_RX/SDIO_CMD/DCMI_D11	84	PD2/TIM3_ETR/UART5_RX/SDIO_CMD/DCMI_D11
PD1/CAN1_TX/FMC_D3	83	PD1/CAN1_TX/FMC_D3
PD0/CAN1_RX/FMC_D2	82	PD0/CAN1_RX/FMC_D2
PC12/SP13_MOSI/I2S3_SD/USART3_CK/UART5_TX/SDIO_CK/DCMI_D9	81	PC12/SP13_MOSI/I2S3_SD/USART3_CK/UART5_TX/SDIO_CK/DCMI_D9
PC11/I2S3ext_SD/SP13_MISO/USART3_RX/UART4_RX/SDIO_D3/DCMI_D4	80	PC11/I2S3ext_SD/SP13_MISO/USART3_RX/UART4_RX/SDIO_D3/DCMI_D4
PC10/SP13_SCK/I2S3_CK/USART3_TX/UART4_TX/SDIO_D2/DCMI_D8/LCD_R2	79	PC10/SP13_SCK/I2S3_CK/USART3_TX/UART4_TX/SDIO_D2/DCMI_D8/LCD_R2
PA15/JTDC/TIM2_CH1/TIM2_ETR/SP11_NSS/SP13_NSS/I2S3_WS	78	PA15/JTDC/TIM2_CH1/TIM2_ETR/SP11_NSS/SP13_NSS/I2S3_WS
PA14/JTCK/SWCLK	77	PA14/JTCK/SWCLK
VDD	76	3.3V
VSS	75	GND
VCAP_2	74	VCAP_2
JTMS/SWDIO	73	JTMS/SWDIO
RF_AUX	72	RF_AUX
RF_SET	71	RF_SET
Normal USART_RXD	70	Normal USART_RXD
Normal USART_TXD	69	Normal USART_TXD
RF_LED	68	RF_LED
TCP USART_RXD	67	TCP USART_RXD
TCP USART_TXD	66	TCP USART_TXD
RF_PW_C	65	RF_PW_C
NetLed	64	NetLed
LORA_D5	63	LORA_D5
LORA_D3	62	LORA_D3
LORA_D2	61	LORA_D2
LORA_D1	60	LORA_D1
LORA_D0	59	LORA_D0
LORA_RST	58	LORA_RST
LORA_SO	57	LORA_SO
LORA_IO	56	LORA_IO
LORA_SCK	55	LORA_SCK
LORA_NSS	54	LORA_NSS



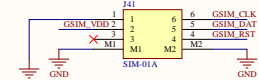
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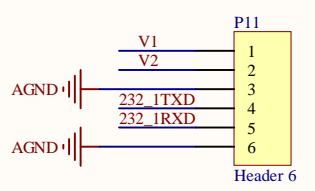
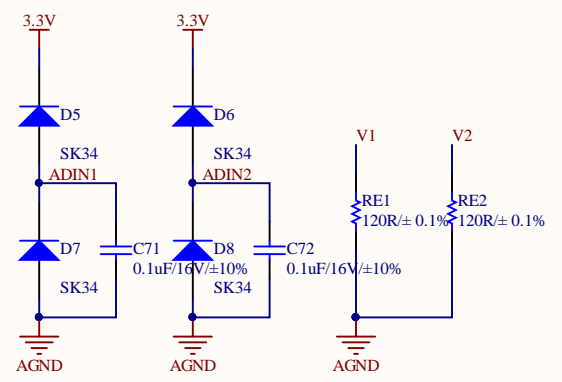
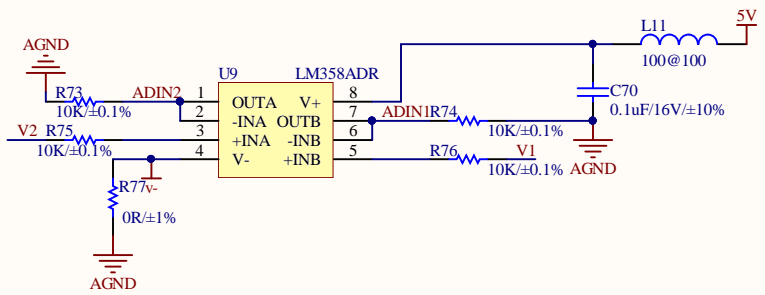
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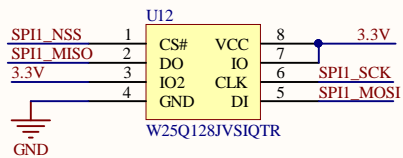




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Comment	Description	Designator	Location	Quantity
TP5650308N	100nF/10V	C1, C2, C3	IC2A14,15	3
2.2uF/16V/a 10%	广东风华高新科技 股份有限公司	C4, C5, C8, C9, C10, C11, C17, C18, C19, C22, C23, C27, C28, C29, C31, C41, C44, C46, C50, C59, C60, C61, C64, C66, C67, C68, C69, C70, C71, C72, C73, C75, C76, C77, C78, C80, C81, C82, C84	C0603	39
3.3uF/16V/a 10%	广东风华高新科技 股份有限公司			
10uF/16V/a 20%	广东风华高新科技 股份有限公司	C6, C48, C49, C54, C58, C74	C0603	4
100pF/50V/a 20%	广东风华高新科技 股份有限公司	C7, C12	C0603	2
5.1pF/50V/a 0.25	广东风华高新科技 股份有限公司	C13, C14	C0603	2
NC	NC	C15, C16, C38, C39	C0603	43
100uF/16V/	HONOR(泰奇)	C20, C21, C23, C24, C53	3MDA3x54	5
33pF/50V/a 5%	广东风华高新科技 股份有限公司	C30, C31, C34, C35, C36, C37, C32	C0603	7
1uF/16V/a 10%	广东风华高新科技 股份有限公司	C32, C65, C79	C0603	3
100uF/6.3V/a 20%	AVX	C40	PC3528	1
100pF/50V/a 5%	广东风华高新科技 股份有限公司	C42	C0603	1
22pF/50V/a 5%	广东风华高新科技 股份有限公司	C43	C0603	1
22uF/16V/a 20%	广东风华高新科技 股份有限公司	C45, C47, C51, C55, C56, C57, C59	C0805	7
170uF/16V	Polarized Capacitor (Atan)	C61, C62	CAPIK7	2
10uF/16V/a 10%	广东风华高新科技 股份有限公司	C83	C0603	1
9K4	MEDC 100W 二端管	D1, D5, D6, D7, D8	DO-214AC	5
9MT12	Analog(肖特基) 二极管	D2, D3, D4, D9	SDT23-3	4
5.1V/500MMV	12V/0.5W贴片管/ JMC-4(贴片三极管)	D21	KOD-123	1
20V/3A	贴片三极管(MOS管)	F1	Adal96a100	1
1000/100M	贴片三极管(达林顿) 管	FBI, FB2, L9, L10	L0805	4
单排针 1X4P, 2.54	深圳市长江连接器 有限公司	F1, J2, J4	HDR104	3
8888号 五	CMR-95/ 2mm(贴片)	J3	DB9	1
3M-01A	16.4mm*14.75mm 贴片封装 16.4mm*14.75mm 贴片封装	J41, J42	MICROSIM	2
100P/6.3V/2.5mm	贴片	K1, K2	0806-2P	2
10uH ±20% 2.0A	小功率贴片电感	L5	L40X60	1
1.5uH ±20% 3A	小功率贴片电感	L6	L40X60	1
4.7uH ±20%	小功率贴片电感	L7, L8	L40X60	2
1000/100	小功率贴片电感	L11	L0805	1
3mm	5V/0.01GHT(贴片) LED光二极管	LED1, LED5	LED3mm	2
3mm	5V/0.01GHT(贴片) LED光二极管	LED2, LED3, LED4	LED0805	3
COAK-M	5MAA+0.01uF 5MAA+0.01uF 5MAA+0.01uF 5MAA+0.01uF	P1, P2, P16	3MA-90	3
PEX-AN7	Header 2, Pin, Right Angle	P3, P5, P6, P7	PEX	4
Header 6	Header 6, Pin/2.81mm, Right Angle	P4, P11, P12	KF2EDG6	3
Header 2	94-2A, 2P (贴片) 2.5mm 间距 BOOMELLE(带焊脚) 的	P8, P9	HDR1X2	2
K71DCD508	5.0mm(113P)特特针 头三极管	P10	KF31DCD508	1
12P0	贴片三极管	P15	8THDR136	1
MODSET P	贴片三极管	Q1, Q2, Q8, Q9, Q10	SDT23-3	5
98014	贴片三极管-4P/4P 贴片三极管-4P/4P	Q4, Q8, Q9, Q7	SDT23-3	4
30A/1%	广东风华高新科技 股份有限公司, 风华 高科, WDC(贴片)	R1, R2, R12, R37, R54, R77, R89, R90, R91, R92	R0603	10
10K/a 1%	广东风华高新科技 股份有限公司, 广东 风华高新科技股份 有限公司	R2, R2, R4, R5, R49, R50	R0603	5
1000/a 1%	广东风华高新科技 股份有限公司	R6, R40, R58, R63, R68	R0603	5
4.7K/a 1%	广东风华高新科技 股份有限公司	R7, R22, R25, R29, R30, R32, R36	R0603	7
100K/a 1%	广东风华高新科技 股份有限公司, 风华 高科	R8, R9, R16, R17, R38, R39, R47, R48, R51, R57, R78, R79, R80	R0603	13
1000/16V/a 1%	广东风华高新科技 股份有限公司	R13, R18	R0603	2
1K/a 1%	广东风华高新科技 股份有限公司	R15, R16, R17, R20, R24, R27, R28, R43, R42	R0603	4
220K/a 1%	广东风华高新科技 股份有限公司	R21, R23, R24	R0603	3
17K/a 1%	广东风华高新科技 股份有限公司	R31, R33	R0603	2
330K/a 1%	广东风华高新科技 股份有限公司	R34, R35, R36	R0603	3
15K/a 1%	广东风华高新科技 股份有限公司	R43	R0603	1
1.5K/a 1%	广东风华高新科技 股份有限公司	R44	R0603	1
500K/a 1%	广东风华高新科技 股份有限公司	R45	R0603	1
13K/a 1%	广东风华高新科技 股份有限公司	R46	R0603	1
562K/a 1%	广东风华高新科技 股份有限公司	R52	R0603	1
150K/a 1%	广东风华高新科技 股份有限公司	R53	R0603	1
100K/a 1%	广东风华高新科技 股份有限公司	R55	100-11	1
1.3K/a 1%	广东风华高新科技 股份有限公司	R59, R62, R64, R67, R69, R72, R85, R88	R0603	8
100K/a 1%	广东风华高新科技 股份有限公司	R60, R61, R65, R66, R70, R71, R86, R87	R0603	6
10K/a 0.1%	广东风华高新科技 股份有限公司	R73, R74, R75, R76	R0603	4
98014/a 0.5W/22ppm	LMR-BO(VOL)(贴片)	R81, R82, R83, R84	R0603	4
1200/a 0.1%	广东风华高新科技 股份有限公司	R81, R82	R0603	2
1ps/nt	Test Point	TP1, TP10, TP11	QMDCTm	3
17M12F42P5076	4pin/2.54mm(贴片)	TP5, TP9		1
1504RF-27177N005	贴片三极管	U1	LCPP100	1
RF433	中功率	U2	LS04RF-27177N030	1
10M7600CE	SMC7600(贴片) 贴片三极管	U3	RF433	1
7805/10W/0.8	7805(贴片)	U4	sm7805	1
SP1085N4/78	7805(贴片)	U5	7550P-14	1
7802	7805(贴片)	U6, U50, U100, U120	SDP-4	4
SP124M6N4/78	7805(贴片)	U7	7802	1
1M38AD6	LMW(贴片) 贴片三极管	U8, U90	SDC16	2
150K/a 1%	LMW(贴片) 贴片三极管	U9	SDP6	1
150K/a 1%	LMW(贴片) 贴片三极管	U10	SDP-14	1
150K/a 1%	LMW(贴片) 贴片三极管	U11	SDP-14, SDP113	1
150K/a 1%	LMW(贴片) 贴片三极管	U12	SDC-8	1
150K/a 1%	LMW(贴片) 贴片三极管	U13	mp32	1
150K/a 1%	LMW(贴片) 贴片三极管	U14, U103	SDT353	2
150K/a 1%	LMW(贴片) 贴片三极管	U44	SDT-223.4	1
150K/a 1%	LMW(贴片) 贴片三极管	U55	SDT23.4	1
150K/a 1%	LMW(贴片) 贴片三极管	U60	SDP100	1
150K/a 1%	LMW(贴片) 贴片三极管	U88	SDC-12W	1
150K/a 1%	LMW(贴片) 贴片三极管	V1	SDM-3225_4P	1
150K/a 1%	LMW(贴片) 贴片三极管	V2	SDM3215	1