

Description	Comment	Designator	Footprint	LibRef	Quantity
IR7功率电感	47uH 20%	L1	SMD,13.8x12.6x7mm	47uH 20%	
路施密特触发反相器	74HC04D	U7	SOIC-14_150mil	74HC14	
	红灯 0603	D5, D12	LC-0603_LED_S1	0603 紅灯	
	绿灯 0603	D6	LC-0603_LED_S1	0603 绿灯	
	蓝灯 0603	D13	LC-0603_LED_S1	0603 蓝灯	
站片电阻	0Ω (0R0) 1%	R8, R17, R18, R41	LC-0603_R	0603 0Ω (0R0) 1%	
站片电阻	1ΚΩ (1001) 1%	R7, R9, R14, R37, R42, R43, R44, R48, R49, R51, R52, R53, R54,	LC-0603_R	0603 1ΚΩ (1001) 1%	
th the else site	4E (40E) 400/ E0V	R59	10,000	0000 1 (105) 100/ 50//	
站片电容 15.15 中間	1uF (105) 10% 50V	C21, C22	LC-0603_C	0603 1uF (105) 10% 50V	
站片电阻	1.2ΚΩ (1201) 1%	R20, R32	LC-0603_R	0603 1.2ΚΩ (1201) 1%	
站片电阻	2ΚΩ (2001) 1%	R4, R11, R23, R25	LC-0603_R	0603 2ΚΩ (2001) 1%	
站片电阻	3.3ΚΩ (3301) 1%	R31	LC-0603_R	0603 3.3ΚΩ (3301) 1%	
站片电阻	4.7ΚΩ (4701) 1%	R19, R33, R38, R39,	LC-0603 R	0603 4.7ΚΩ (4701) 1%	
贴片电阻	10ΚΩ (1002) 1%	R46, R47 R22, R28, R30, R34, R35, R60, R63, R64,	LC-0603_R	0603 10ΚΩ (1002) 1%	
站 片电容	10nF (103) 10% 50V	R65, R66, R67 C12	LC-0603 C	0603 10nF (103) 10%	
出片电容	10uF (106) 10% 10V	C5, C11, C14, C16	LC-0603 C	50V 0603 10uF (106) 10%	
a力 电谷 占片电容	, ,	C23	_	10V 0603 22nF (223) 10%	
	22nF (223) 10% 50V		LC-0603_C	50V	
占片电阻	22Ω (22R0) 1%	R56, R58	LC-0603_R	0603 22Ω (22R0) 1%	
占片电阻	56KΩ (5602) 1%	R45	LC-0603_R	0603 56ΚΩ (5602) 1%	
占片电容	10nF (103) 10% 1KV	C9, C15	LC-1206_C	1206 10nF (103) 10% 50V	
片电阻	100ΚΩ (1003) 1%	R5, R6, R12, R13, R21, R27	LC-0603_R	0603 100ΚΩ (1003) 1%	
5片电容	100nF (104) 10% 50V	C1, C2, C6, C7, C8, C10, C13, C17, C18, C19, C20, C33, C36	LC-0603_C	0603 100nF (104) 10% 50V	
占片电阻	120Ω (1200) 1%	C20, C33, C36 R24 R36	LC-0603 R	0603 120Ω (1200) 1%	
5万电阻	200ΚΩ (2003) 1%	R2, R3	LC-0603_R	0603 200ΚΩ (2003) 1%	
片电阻	330Ω (3300) 1%	R40, R50 R1, R10, R15, R16,	LC-0603_R	0603 330Ω (3300) 1%	
片电阻	510Ω (5100) 1%	R26, R29	LC-0603_R	0603 510Ω (5100) 1%	
IOS(场效应管)	AO3401A P道沟 X13A15 SOT-23	Q2	LC-SOT-23-3L	AO3401A P道沟 X13A15 SOT-23	
	AT24C02	AT1	AT24002	AT24C02	
i 特基二极管	BAT54S	Q1, Q3	SOT-23-3	BAT54S	
插电解电容	100uF/ 16V	C3	CAP5*X	Ca	
		C25, C26, C32, C35,			
片电容	0.1uF/50V	C37, C38	C-0603	CAP	
片电容	10uF/10V	C24, C29, C34, C39, C40	C-0603	Сар	
片电容	20pF/50V	C30, C31	C-0603	CAP	
片电容	6pF/50V	C27, C28	C-0603	CAP	
	680uF35V	C4	C10x16	CAP_DIP	
AT6219	CAT6219-330TD-GT3	U4	SOT23-5	CAT6219	
压差线性稳压(LDO)	RT9193-33GB	IC2	SOT23-5	CAT6219	
rystal	32.768k	Y1	3215_32.768K	CRYSTAL	
用二极管	SMAJ6.5CA	D8, D9, D14	DO-214AC	Diode	
:极管	IN4007-M7	D1, D3, D4, D7	DO-214AC	Diode 1N4001	
	1N41017-M7	D1, D3, D4, D7	LL-34		
压二极管	-			Diode Zener	
片保险丝	32V/5A	F1, F4	Fuse-1206	Fuse	
片保险丝 0.1A 60V	0.1A 60V	F2, F3 P1, P2, P3, P4, P5, P6,	R-1812	Fuse_1	
	Harder_2	P11, P12, P13, P14	2Pin-2.54A	Harder_2	
	harder_3	P7, P9	3PIN-2.54	harder_3	
	Harder_4	P8, P10	4PIN-2.54 A	Harder_4	
27卧式贴片针座	1.27 4PIN	XS2	JXT-4	Hea	
排插针	2*3 2.54	P15	201S2X3	Header 2*3	
排插针	2Pin 2.54	XS1	JXT-2	Header 2H	
27卧式贴片针座	Header 2.54X4	XS3	JXT-5	Header 5	
电器	HK4100F-DC5V-SHG	RL1, RL2	HK4100F-DC5V-SHG	HK4100F-DC5V-SHG	
	LED2_双色共阴	LED2, LED5	双色LED	LED2_双色共阴	
光二极管	LED-5mm	LED1, LED3, LED4	LED_5mm	LED-5mm	
M2596-5.0	LM2596-5.0	LM1	LC-TO-263-5	LM2596	
	M-KL9	U5	M-KL9	M-KL9	
S485收发芯片	MAX485ESA	U8	SOP-8_150mil	MAX485ESA	
PN三极管	S8050	V1, V2	SOT-23-3	NPN	
:藕	PC817	U1, U2, U3, U6	LC-SMD-4	PC817	
.稿	TLP187	U9, U10	TLP187 - duplicate	Q817	
i片电阻	0R	R55	R-0603	Res2	
片电阻	10K		R-0603	Res2	
		R57, R61, R62		SMA(DO-214AC) SS54	
.极管	SS54	D2	LC-SMA(DO-214AC)_S1	SMA(DO-214AC) SS54 SMD-5032 4P 8MHz	
片晶振	8MHz 20ppm 20pF	Y2	LC-SMD-5032_4P	20ppm 20pF	
PN贴片三极管	SS8050	Q4, Q5, Q6, Q7, Q8	SOT-23	SS8050	
片机	STM32F103RCT6	U11	LQFP-64_10x10x05P	STM32F103RCT6	
脚带支架 微型按键	6*6*12	S1, S2, S3	KEY-7.0*7.0	SW-PB_4	
试点	+5V	+1	TEST_POINT	TEST_POINT	
试点	12V	GROUND1	TEST_POINT	TEST_POINT	
武点	3.3V	5V, GND-1, LoRa-1	TEST_POINT	TEST_POINT	
則试点	GND TLV2472	GND1	TEST_POINT	TEST_POINT	
hada shir-d-		IC1	SOP8	TLV2472	
計出放大	立式micro 5p USB插座	U12	USB插座 micro 5p	USB_micro_5p	