

	Reference	Value	Spec	Digikey	Aliexpress	秋月電子
Main Board A	C1	1u	16V or Over, ±20%			
	CP1	470u	16V or Over, ±20%			
	CP2	47u	16V or Over, ±20%			
	Ct1	1u	16V or Over, ±20%			
	D1	RED	Vf~2V			
	Q1	2SC1815	NPN hfe > 100			
	Q2	2N7000	NMOS Vth < 3V			
	Q3	2SC1815	NPN hfe > 100			
	Q4	2N7000	NMOS Vth < 3V			
	Q6	2N7000	NMOS Vth < 3V			
	R1	1k	1/8W or Over, ±5%			
	R2	10k	1/8W or Over, ±5%			
	R3	10	1/8W or Over, ±5%			
	R4	1k	1/8W or Over, ±5%			
	R5	1k	1/8W or Over, ±5%			
	R6	1k	1/8W or Over, ±5%			
	R7	10k	1/8W or Over, ±5%			
	R8	1k	1/8W or Over, ±5%			
	R9	1k	1/8W or Over, ±5%			
	R10	1k	1/8W or Over, ±5%			
	R11	10k	1/8W or Over, ±5%			
	R12	3.9k	1/8W or Over, ±5%			
	R13	100	1/8W or Over, ±5%			
	R14	1k	1/8W or Over, ±5%			
	R15	1k	1/8W or Over, ±5%			
	R16	Open				
	R_IR1	22 [22-150]*1	1/4W or Over, ±5%			
	R_RED1	22 [22-150]*1	1/4W or Over, ±5%			
	RL1	100 [47-470]*2	1/8W or Over, ±5%			
	Rt1	100k [82k-470k]*3	1/8W or Over, ±5%			
	SW1	SW_Push	6mm Tactile Push Switch			
	U1	LM358	Single Power Supply, Input Common-mode Voltage:0 to Vcc-1.5V			
	A1	Arduino_Nano	Arduino Nano or compatible			
	BZ1	Buzzer	Active Buzzer			
	CP3	220u	16V or Over, ±20%			
SW2	SW_Push	6mm Tactile Push Switch				
Clip	C2	1u	16V or Over, ±20%			
	Q5	2SC1815	NPN hfe > 100			
	RL2	4.7k	1/8W or Over, ±5%			
	PTr1	Q_Photo_NPN	3mm, Clear Package	Link	Link	Link
	LED1	IR	5mm, Peak Wavelength:940nm	Link	Link	Link
LED2	RED	5mm, Peak Wavelength:660nm, Super Bright	Link	Link	Link	

*1:Cut & Try according to the LED brightness

*2:Cut & Try according to the Ptr Gain

*3:Cut & Try according to the Charge time