

Comment	Description	Designator	Footprint	Quantity
0.1u		C1	0402R	1
10u	Electrolytic Capacitor	C2	C1206	1
1u		C3	0402R	1
10n		C4	0402R	1
103	Capacitor	C5	0402R	1
100pF	Capacitor	C6	0402R	1
47uF	Polarized Capacitor (Axial)	C7	C5*8	1
27P	Capacitor	C8	0603	1
15p	Capacitor	C9, C10, C30	0402R	3
1uF	Capacitor	C11, C38	0402R	2
10uF	Capacitor	C12, C32	0805	2
100P	Capacitor	C13	0603	1
0.1uF	Capacitor	C14, C17, C21, C31, C35	0402R	5
0.1uF	Capacitor	C15, C19, C22	0603	3
100pF	Capacitor	C16	0603	1
15pF	Capacitor	C18, C25	0603	2
1U	Capacitor	C20, C23	0603	2
103	Capacitor	C24, C26	0603	2
104	Capacitor	C27, C29	0402R	2
474	Capacitor	C28	0402R	1
10pF	Capacitor	C33, C34	0603	2
33pF	Capacitor	C36	0402R	1
10pF	Capacitor	C37	0402R	1
LED0	Typical INFRARED GaAs LED	D1	C0805	1
4148	Default Diode	D3	0603D	1
5817	Default Diode	D4	1805	1
LCD	Connector	J1	LCD_12KUANG	1
150nH		L1	0805	1
68uH	Inductor	L3	L4.5*3.2	1
152	Inductor	L4	0805	1
Mic2	Microphone	Mic	MIC1-P	1
1621		Q1	1621-g	1
NPN	NPN Transistor	Q2	sot-23	1
2N3906	NPN Transistor	Q3	3904	1
9018	NPN Transistor	Q4	SOT-23	1
2N3904	NPN General Purpose Amplifier	Q6	3904	1
10k	Resistor	R1, R4, R6, R7, R14, R16, R19, R20, R31	0402R	9
470	Resistor	R2	0402R	1
100k	Resistor	R8	0402R	1
47k	Resistor	R9, R11, R21, R22	0402R	4
1M	Resistor	R12	0402R	1
4.7k	Resistor	R17	0402R	1
2R2	Resistor	R18	0402R	1
1.2k	Resistor	R23	0603	1
3.3k	Resistor	R24	0402R	1
33R	Resistor	R25	0402R	1
10k	Resistor	R26, R28, R29, R30	0603	4
3.3k	Resistor	R27	0603	1
3k	Resistor	R38	0402R	1
power	Switch	sw1	SS305B1	1
UP		sw2	SS305B1	1
DOWN		sw3	SS305B1	1

RT9167-3.3		U1	SOT23-5	1
501A		U2	SOT23-5	1
MCU		U4	so-14	1
QN8000		U5	Qn8000	1
FM24C02		U6	SOP_8	1
7.6M		Y1	X3	1