

P/N: RC100

	Value	Description	Designator	Footprint	LibRef	Quantity	Manufacturer	Manufacturer P/N
1	PCB	Printed Circuit Board				1	Suhang Group	remote
2	PCB Antenna	Antenna, Folded Dipole	A1	Antenna2.4GHzT3	Antenna FoldedDipol	1	na	na
3	0.5pF	Capacitor, Cer., 50V, ±0.1pF, High-freq.	C1, C3	SM/C_0402	Cap	2	Taiyo Yuden	UVK105CH0R5BW-F
4	1.5pF	Capacitor, Cer., 50V, ±0.1pF, High-freq.	C2, C4	SM/C_0402	Cap	2	Taiyo Yuden	UVK105CH1R5BW-F
5	4.7nF	Capacitor, Cer., 50V, 10%, X7R	C5, C8	0603-1	Cap	2	Kemet	C0603C472K5RACTU
6	1uF	Capacitor, Cer., 16V, 10%, X5R	C6, C14	0603-1	Cap	2	Murata Electronics North America	GRM188R61C105KA93D
7	100nF	Capacitor, Cer., 16V, 10%, X7R	C7, C10, C15, C16, C17, C18, C19, C20	0603-1	Cap	8	KEMET	C0603C104K4RACTU
8	10pF	Capacitor, Cer., 50V, 5%, C0G/NPO	C9, C12	0603-1	Cap	2	Kemet	C0603C100J5GACTU
9	22pF	Capacitor, Cer., 50V, 5%, C0G/NPO	C11, C13	0603-1	Cap	2	TDK Corporation	C1608C0G1H220J
11	3.3nH	Inductor, Cer., 0.7A, ±0.2nH, Q=63, fo=5.8GHz	L1, L2	SM/L_0603	Inductor	2	WUERTH ELEKTRONIK	744761033A
12	"Alternate inductor"	"	"	"	"	"	Abracon Corporation	AISC-0603-R0033J-T
13	300Z	Inductor, Ferrite Bead, 300 Ohm @ 100MHz, 2.0A	LF1	SM/L_0603	Inductor	1	Wurth Electronics Inc	742792641
15	1K	Resistor, 1/10W, 1%	R1, R3, R4, R11, R12, R15	0603-1	Res1	6	Panasonic - ECG	ERJ-3EKF1001V
16	10K	Resistor, 1/10W, 1%	R2, R14, R20	0603-1	Res1	3	Stackpole Electronics Inc	RMCF 1/16 10K 1% R
17	0R0	Resistor, 1/10W, jumper	R10, R19	0603-1	Res1	2	Panasonic - ECG	ERJ-3GEY0R00V
18	470K	Resistor, 1/10W, 1%	R17, R18	0603-1	Res1	2	Panasonic - ECG	ERJ-3EKF4703V
19	47K	Resistor, 1/10W, 1%	R21, R22	0603-1	Res1	2	Panasonic - ECG	ERJ-3EKF4702V
20	ON		S1	CapTouch_2	CapTouch	1	na	na
21	Lamp B		S2	CapTouch_2	CapTouch	1	na	na
22	Lamp D		S3	CapTouch_2	CapTouch	1	na	na
23	Lamp C		S4	CapTouch_2	CapTouch	1	na	na
24	Lamp A		S5	CapTouch_2	CapTouch	1	na	na
25	ALL		S6	CapTouch_2	CapTouch	1	na	na
26	OFF		S7	CapTouch_2	CapTouch	1	na	na
27	PRG		S8	CapTouch_2	CapTouch	1	na	na
28	ATmega128RFA1	uC, ATmega128RFA1, transceiver	U1	QUAD.50M/64/WG9	ATmega128RFA1	1	Atmel	ATMEGA128RFA1-ZUR
29	16 MHz	Crystal	Y1	Xtal 3225	XTAL4	1		
30	32.768kHz	Crystal, Tuning fork, CL=12.5pF, ±20ppm	Y2	XTAL_ECX_31B	XTAL	1	Citizen Finetech Miyota	CM200C-32.768KDZF-UT

**P/N: RC123 Controller**

Value	Description	Designator	Footprint	LibRef	Quantity	Manufacturer	Manufacturer P/N
PCB	Printed Circuit Board				1	Suhang Group	lamp control board
PCB Antenna	Antena, Folded Dipole	A1	Antenna2.4GHzT3	Antenna FoldedDipol	1	na	na
0.5pF	Capacitor, Cer, 50V, ±0.1pF, High-freq.	C1, C3	SM/C_0402	Cap	2	Taiyo Yuden	UVK105CH0R5BW-F
1.5pF	Capacitor, Cer, 50V, ±0.1pF, High-freq.	C2, C4	SM/C_0402	Cap	2	Taiyo Yuden	UVK105CH1R5BW-F
1uF	Capacitor, 16V, 10%, X5R	C5, C12	SM/C_0402	Cap	2	TDK	C1005X5R1C105K
100nF	Capacitor, Cer., 16V, 10%, X7R	C6, C8, C13, C14, C15, C16, C17, C18	SM/C_0402	Cap	8	Kemet	C0402C104K4RACTU
10pF	Capacitor, Cer., 50V, 5%, C0G/NPO	C7, C10	SM/R_0402	Cap	2	Kemet	C0402C100J5GACTU
3.3nH	Inductor, 0.7A, ±0.2nH, Q=63, fo=5.8GHz	L1, L2	SM/L_0603	Inductor	2	WUERTH ELEKTRONIK	744761033A
300Z	Inductor, Ferrite Bead, 300 Ohm @ 100MHz, 2.0A	LF1	SM/L_0603	Inductor	1	Wurth Electronics Inc	742792641
Header	Header, 4-Pin	P1	HDR1X4	Header 4	1	GCT	BG075-04C-2-0600-0300-0480-N-G
10K	Resistor, 1/10W, 1%	R1, R3, R6	SM/C_0402	Res1	3	Panasonic -ECG	ERJ-2RKF1002X
47K	Resistor, 1/10W, 1%	R7, R8	SM/R_0402	Res1	1	Panasonic -ECG	ERJ-2RKF4702X
ATmega128RFA1	uC, ATmega128RFA1, transceiver	U1	QUAD.50M/64/WG9	ATmega128RFA1	1		
16 MHz	Crystal	Y1	Xtal 3225	XTAL4	1		