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JC-300 RDA5807 FM Radio Receiver DIY Kit

1.Introduction:

JC-300 is a 3.7V RDA5807 87MHz-108MHz FM Radio Receiver DIY Kit.

It is a simple FM receiver and can be used all over the world with power by 18650 rechargeable battery.

Very suitable for users to learn electronic circuits, practice soldering skills, and enhance electronic professional knowledge and interest.





2.Feature:

- DIY soldering project, good kits to learn electronic circuits and proficient soldering skills.
- Universal frequency 87MHz-108MHz
- Stable fixing bracket
- Support battery charging function

3.Parameter:

Product Name: JC-300 RDA5807 FM Radio Receiver DIY Kit

Product Number:JC-300 Work Voltage:DC 3.7V

Power Type: 18650 Battery(Not Included!)

Work Temperature:- 25° C ~ 85° C Work Humidity:5%~95%RH Size(Installed):170*110*60mm

4. Function:

- 1>.Left two buttons are used to adjust volume.
- 2>.Right two buttons are used to switch FM stations.
- 3>. The switch on the side is the power switch. UP is ON and down is OFF.
- 4>. Power socket is used to charging for 18650 rechargeable battery.

5. Component List:

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NO.	Component Name	PCB Marker	Parameter	QTY
1	Metal Film Resistor	R7,R8,R9	0ohm	3
2	Metal Film Resistor	R5,R6	2.20hm	2
3	Metal Film Resistor	R2	22ohm	1
4	Metal Film Resistor	R1,R3,R4	10Kohm	3
5	Metal Film Resistor	R10	1Kohm	1
6	Zener Diode	Z1 3V	DO-35	1
7	1N4007 Diode	D1	DO-41	1
8	Inductor	L1	0.1uH	1
9	Inductor	L2,L3	1uH	2
10	RDA5807 FM Receiver	U1	SOP-16	1
11	Crystal Oscillator	Υ	32.768KHz	1
12	IC Socket	U2	DIP-8	1
13	TDA2822 Amplifier	U2	DIP-8	1
14	Ceramic Capacitor	C2	27pF	1
15	Ceramic Capacitor	C1,C8	0.01uF 103	2
16	Ceramic Capacitor	C7	2.2nF 222	1
17	Ceramic Capacitor	C3	22nF 223	1
18	Red LED	LED1,LED2	3mm	2
19	Electrolytic Capacitor	C6,C9	10uF	2
20	Electrolytic Capacitor	C4,C5,C15	100uF	3
21	CBB Capacitor	C10,C11,C13,C14	0.1uF 104	4
22	Electrolytic Capacitor	C12	2200uF	1
23	Power Socket	J1	2.5mm	1
24	Power Switch	K1		1
25	Black Button	S1-S4		4
26	Speaker		D:66mm	1

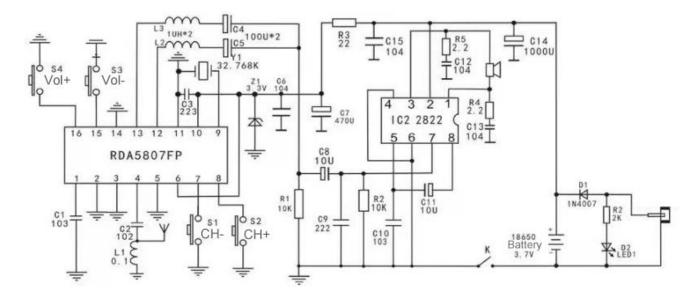
27	Black/Red Wire	10cm	1
28	18650 Battery Box		1
29	USB Power Wire	80cm	1
30	FM Antenna	75ohm	1
31	M3*6mm Screw		2
32	M3 Nut		1
33	M2*10mm Screw		4
34	M2 Nut		4
35	Main PCB	160*80*1.6mm	1
36	PCB Bracket	60*33*1.6mm	2

Note:Users can complete the installation according to the PCB silk screen and component list.

Component Lists



6. Schematic diagram:



7.Install shown steps:

