

Note: please do not use the 18650 battery, otherwise the items will be damaged.

Description:

- The circuit of yfm-2 radio is very simple.
- The total number of components shall not exceed 19.
- Although the number of components is small, it includes two components: SMD and dip, which is suitable for novices and friends who want to practice SMD component welding TZZT.

Features:

- 1> . Built in digital automatic gain control (AGC) circuit
- 2> . Support global frequency band 76-108mhz
- 3> . DIY manual welding
- 4> . Simple and easy to operate
- 5> . Support radio memory function

Range:

- 1> .Product Name: FM stereo radio module DIY Kit
- 2> Product mode: yfm-2
- 3> . Working voltage: DC 3V
- 4> . Working current: 19ma
- 5> . Operating frequency: 76-108mhz
- 6> . Output impedance: 32ohm
- 7> . Working temperature: - 40 °C ~ 85 °C
- 8> . Working humidity: 0% ~ 95% RH

Applicable:

- 1> Training welding skills
- 2> Student schools
- 3> TZZT DIY production
- 4> Project design
- 5> Electronic contest
- 6> Graduation project
- 7> Handicraft collection
- 8> Home decoration
- 9> .Souvenir collection

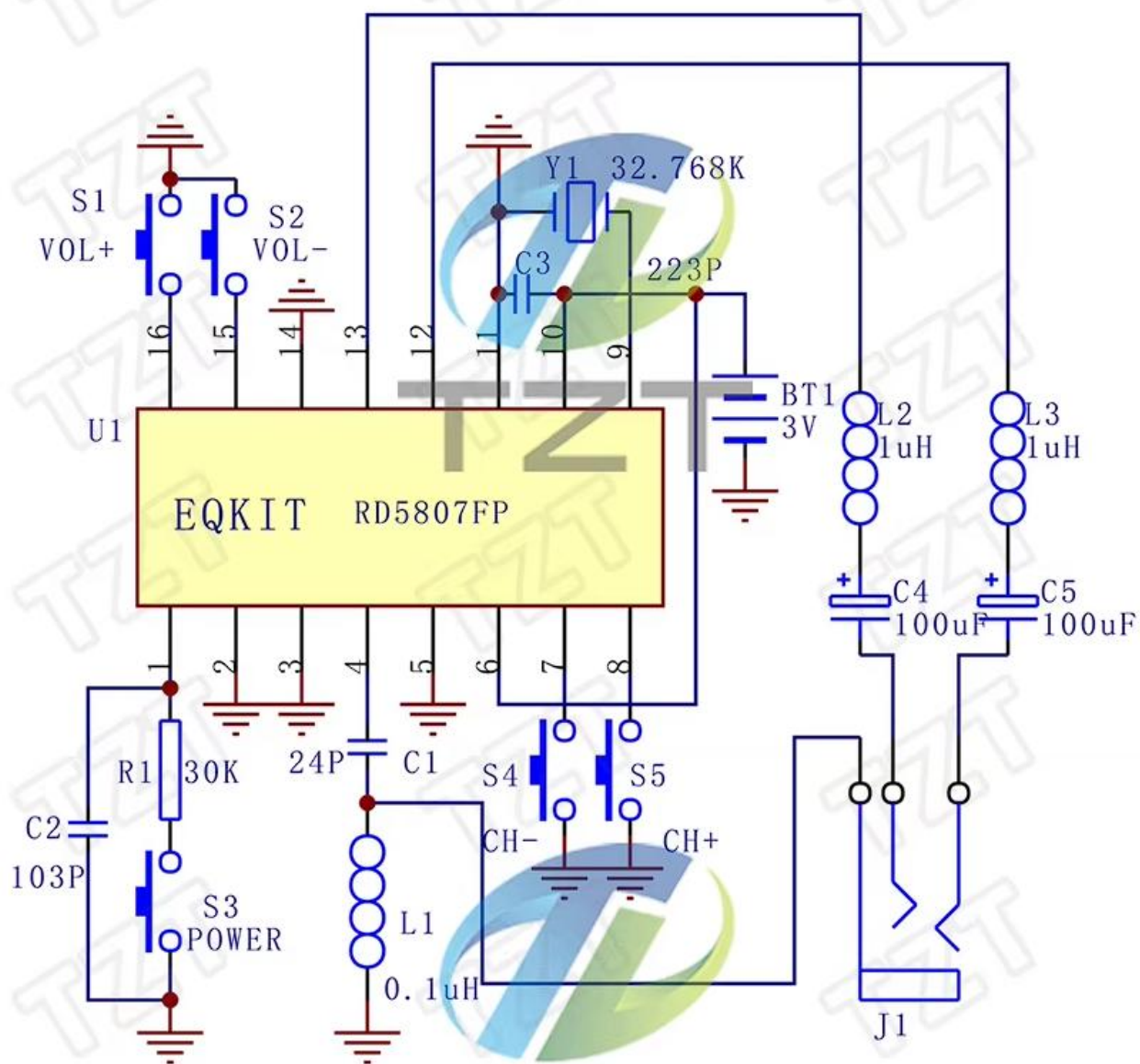


Installation Tips:

- 1> . The user needs to prepare welding tools first.
- 2> . Please wait patiently for the installation to complete.
- 3> . TZZT The package is diy kit, which needs to be installed by the user.
- 4> . The soldering iron shall not contact the components for a long time (1.0 seconds), otherwise the components will be damaged. We Are The Distributor Of TZZT Brand In Hong Kong, China
- 5> . Pay attention to the front and back of components.
- 6> . Short circuit is strictly prohibited.
- 7> . Priority is given to the installation of complex components.
- 8> . Ensure that all components are in the correct direction and position.
- 9> . It is strongly recommended to read the installation manual before starting installation!!!

Installation steps (please install patiently!!!):

- 1> Step 1: install 1pcs sop-16 rda5807pf at U1. There is a point in one corner of the IC, and a rectangular pad on the PCB can place the Pin1 of the IC. These two marks correspond to each other and are used to specify the installation direction of the IC.
- 2> Step 2: install a 30K ohm resistor at R1.
- 3> Step 3: install a 0.1uh inductor in L1.
- 4> Step 4: install two 1uh inductors at L2 and L3.
- 5> Step 5: install a 32.768KHz crystal oscillator at Y1.
- 6> Step 6: install a 24pf ceramic capacitor at C1.
- 7> Step 7: install a 0.01pf (103) ceramic capacitor at C2.
- 8> Step 8: install a 0.022pf (223) ceramic capacitor at C3.
- 9> Step 9: install five 6 * 6 * 5mm switches in S1-S5.
- 10> Step 10: install one 100uF 16V electrolytic capacitor at C4 and C5. Please pay attention to the positive and negative poles. The shorter pin is negative. We Are The Distributor Of TZZT Brand In Hong Kong, China
- 11> Step 11: install a 3.5mm audio jack at J1.
- 12> Step 12: connect the battery box. Pay attention to the positive and negative poles.
- 13> Step 13: secure the battery box with a tie TZZT.
- 14> Step 14: turn on the power and enjoy the effect.



Component Listing

No.	Component Name	PCB Marker	Parameter	Quantity	Picture
1	RDA5807PF	U1	SOP-16	1	
2	Resistor	R1	30K ohm	1	
3	Inductor	L1	0.1uH	1	
4	Inductor	L2,L3	1uH	2	
5	Ceramic Capacitor	C1	24pF	1	
6	Ceramic Capacitor	C2	0.01pF(103)	1	
7	Ceramic Capacitor	C3	0.022pF(223)	1	
8	Electrolytic Capacitor	C4,C5	100uF 16V	2	
9	Crystal Oscillator	Y1	32.768K	1	
10	Black Switch	S1-S5	6*6*5mm	5	
11	Audio Jack	J1	3.5mm	1	
12	Cable tie		3*60mm	2	
13	AA*2 Battery Box			1	
14	PCB		56*30*1.6mm	1	

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

