

O44JMR540 Circuit Descriptions.

(Block1,2,3,4,5,6,14 is Logic part and another block is RF part)

Block1 : The Battery supply the power of 1.5volts to the DC/DC step-up.

Block2 : This is the 3volts DC/DC step-up circuit by U1,D1,L1,TC2,TC3

Block3 : The Buttons of this product.

When Being pressed this remote starts to work.

Block4 : This is the micro-controller

U1(Micro-controller) reads the button and make the radio transmission circuits work.

Block5 : This is the external oscillator.

XT1 supply the clock to the U1.

Block6 : This is the radio power control circuit by U1.

U1 make radio frequency circuit (B8) enable by Block6.

Block7 : This is the basic oscillation circuit to radiate the radio frequency.

(Oscillator 433.92MHz by SAW2)

And by switching (between 0V and 3V) at L13 the frequency modulation is done.

Block8 : The basic frequency 433.92MHz of Block8 will be amplified at this by Q3.

Besides 433.92MHz will be removed by filter (L9,C34,C35)

Block9 : Besides 433.92MHz will be removed by filter (L11,C1,C2).

Block10 : This is the Low Noise Amplify and SAW filter circuit by Q1,L4,C6,SAW1.

Block 11 : This is the First local Frequency oscillator(423.22MHz) circuit by

XT1,C16,C17,L5

Block 12 : This is the internal First mixer (10.7MHz) circuit by C9,CF1,U1.

Block 13 : This is the internal ASK/FSK switch circuit by U1

Block 14 : This is the reception power control circuit by U1