

O44J2W907R Circuit Descriptions.

(Block1,2,3,4,5,6,17 is Logic part and another block is RF part)

Block1 : The Battery supply the power of 1.5volts to the Regulator.

Block2 : This is the 3volts Regulator circuit by U5,D3,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 real time circuit

XT1 supply the real time clock to the U1.

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

U1 make radio frequency circuit (B7) enable by Block6.

Block7 : U1 can make the modulation by this block.

By switching (between 0V and 3V) at C50 the frequency modulation is done.

Block8 : This is the basic oscillation circuit to radiate the radio frequency.

Oscillates 907.1695MHz by U2,X2,VC1.

Block9 : Besides 907.1695MHz will be removed by first filter (L15,C45,C54).

Block10 : Besides 907.1695MHz will be removed by second filter (L11,C36,L12).

Block11 : This is the Low Noise Amplify and SAW filter circuit by Q1,Q2,L16,L3,SAW1.

Block 12 : This is the First local Frequency oscillator(885.7695MHz) circuit by

X1,Q5,Q7,L8,L17

Block 13 : This is the First mixer (21.4MHz) circuit by Q3,L6,MCF1.

Block 14 : This is the Second local frequency oscillator circuit by XT1,R10,C20,C21

Block 15 : This is the Second mixer (455KHz) circuit by U1,CF1

Block 16 : This is the Discriminator circuit by U1,FT1.

Block 17 : This is the reception power control circuit by U1