

O44J2WAMANT Circuit Descriptions.

Block1 : The Battery supply the power of 12volts to the Regulator.

Block2 : This is the 5volts Regulator circuit by U3,EC2,EC3

Block3 : This is the micro-controller.

Block4 : This is the real time circuit. X1 supply the real time clock to the U2.

Block5 : This is the Transmitter power control circuit by U2,Q10

Block6 : U2 can make the modulation by this block.

By switching(Between 0V and 5V) at R14,R18 modulation done.

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

Oscillates 433.92MHz by SAW3,Q5, C35,C36

Block8 : Besides 433.92MHz will be removed by first amplify. (Q4,R16)

Block9 : Besides 433.92MHz will be removed by first filter. (L12,C31)

Block10 : Besides 433.92MHz will be removed by second amplify. (Q3,R11,R12,R13)

Block11 : Besides 433.92MHz will be removed by second filter. (L11,C28,L10,C25)

Block12 : This is the Low Noise Amplify circuit by Q1,Q2,L3,C5.

Block13 : This is the second Amplify circuit by Q6,R9,R8

Block14 : This is the demodulation circuit by Q7,L5,L6,R28

Block15 : This is the Discriminate circuit by U1 - A,U1 - B,C19,Q8.

Block16 : This is the reception power control circuit by U2,Q11