

## **O44J2W907A Circuit Descriptions.**

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

Block2 : This is the 5volts Regulator circuit by U101,EC100,EC101

Block3 : This is the micro-controller.

Block4 : This is the real time circuit. X1 supply the real time clock to the U100.

Block5 : This is the radio power control circuit by U100.

U100 make radio frequency circuit (B7,B8,B10) enable by Block5.

Block6 : U1 can make the modulation by this block.

By switching (between 0V and 5V) at C39 the frequency modulation is done.

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

Oscillates 907.1695MHz by U2,XT3,VC2.

Block8 : Besides 907.1695MHz will be removed by first filter (L15,C45,C54).

Block9 : Besides 907.1695MHz will be removed by second filter (L12,C36,L11).

Block10 : This is the Low Noise Amplify and SAW filter circuit by Q1,Q2,L3,L4,SAW1.

Block 11 : This is the First local Frequency oscillator(885.7695MHz) circuit by

XT2,Q6,Q5,L12,L10

Block 12 : This is the First mixer (21.4MHz) circuit by Q3,L8,MCF1.

Block 13 : This is the Second local frequency oscillator circuit by XT1,R16,C23,C24

Block 14 : This is the Second mixer (455KHz) circuit by U1,CF1

Block 15 : This is the Discriminator circuit by U1,DT1.

Block 16 : This is the reception power control circuit by U100