

JY-166T CIRCUIT DESCRIPTIONS

TX UNIT

- 1、9V DC supply, switch on/off by K1, when K1 is at “ON” position,D2 of power LED is bright, 78L05 is 5V regulator, 5V supply to microphone amplifier circuit、micphone sensitivity and temperature MODULE
- 2、Audio input from MIC,U1A is a audio amplifier.
- 3、Audio AGC circuit :D1,D4,C35,Q3,Q2.
- 4、Micphone sensitivity circuit: U1B,U1D,VR1,Q4,Q1 are important component, when VR1 is at “OFF” position, pin 14 of U1D is high voltage ,Q4,Q1 is pass, 5V voltage is supplied to RF circuit ,TX always work;when VR1 is at “ON” position, Micphone sensitivity is adjustable by rotated VOLUME of VR1,if voltage of pin 12 of U1D is lower than pin 13 of U1D, Q4,Q1 don’t pass, 5V voltage isn’t supplied to RF circuit ,TX don’t work.
- 5、Channel selection: When SWITCH K1 is at “A” position, The Y1(16.610MHZ) OSCILLATOR is selected, The carrier wave of 16.610MHZ is production. By 3-double frequency to 49.830MHz and be amplified by Q4 ,Then pass through L3,L4,L5,T2 to ANT and power out; When SWITCH K1 is at “B” position, It is same as above,.The frequency of transmittion is 49.875MHZ.