



## Circuit description of Walkie-Talkie

**TX** Microphone transform the voice to audio signal, the signal enters into U1(LM386) and is amplified, X1,Q3 and T3 makes up of oscillatory AM modulation, the frequency is 40.685MHz, which generated base oscillatory signal. The amplified audio signal fixed 40.685MHz of high frequency, and then send out through the antenna.

**RX** HF signal is received by antenna and then through Q1 is amplified. T2 and Q2 makes up the overload detection, R6,C7,VR1,C8 and R18 makes up high-frequency filter. The amplified signal is converted into audio signal through above two parts, then amplified by U1(LM386) , and played by the speaker finally.