

## 1. Circuit Description

*Q1* become 27.145MHz crystal oscillator and provide carrier wave for *Q2* modulation . *Q2* adjust IC output modulated signal to modulation and provide buffer amplifier . The output of *Q2* has the matching network consisting of *L1* , *C7* , *L4* and *C9* . that limit harmonious content and effect the proper coupling of the antenna to the output stage.  
*Q3* and *Q4* control *Q1* bring 27.145MHz crystal oscillator.

## 2. Antenna ground and power source.

*The antenna consists of a 45cm long telescopic chrome over brass tubing. There is no external ground connection, the ground is only that of the printed circuit board . Electric current is supplied by a 9 Volts Primary storage cell.*