

### Circuit Description

Q1 the 49.860MHz Crystal oscillator drives the base of Q2 the final/ buffer amplifier summed into the same base (Q2) is the modulation provided by IC1. the output of Q2 has the matching network consisting of L1,L2, C2 and C3 that limit the harmonic content and effect the proper coupling of the antenna to the output stage

### Antenna, Ground and power source

The antenna consists of a 25cm long telescoping 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 4.5V Volt primary storage cell.