

Circuit Description of transmitter

Q1 the 49.860 MHZ crystal oscillator drives the base of Q2 the final amplifier. Summed into the base (Q2) is the modulation by amplifier circuit with speaker. The output Q1 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. The antenna consists of a 95mm long whip antenna(Gain=-3dBi). There is no external ground Connection. The ground is only that of the printed circuit board. Electric current is supplied by a 9 Volt primary storage cell.