

Operation Description

Q2, Y1, L4, R3, R1, C5, C4 constitute 49.860MHz oscillator, Q1 is the modulator and RF amplifier. The modulation signal provided by U2, The output of Q1 has the matching network consisting of L2, L1, L3, C9, C10, C11 that limit the harmonic content and effect the proper coupling of the antenna to the output stage.

Antenna, Ground, and Power Source

The antenna length is 37cm. There is no external ground connection. The ground is only that of the printed circuit board.