

Operation Descriptions

The Equipment Under Test (EUT) is a portable 49MHz Pure Transmitter, The transmitter is a remote control system. The transmission signal is not frequency hopping. Only 1 channels on 49.860MHz. The EUT is powered by 1 x 9V batteries, After switching on the EUT, the car can be controlled to move forward, backward, turning left/right direction.

Circuit Description

The crystal oscillator (Y1) drives the base of IC final amplifier. The modulation provided by IC U1. The output of U1 has the matching network consisting C1, C2, R1, L1 that limit the harmonic content and effect the proper coupling of the antenna to the output stage.

Antenna and Power

Antenna Type: External, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength: 70.6 dB μ V/m at 3m

Maximum allowed field strength of production tolerance: +/- 3dB