

Transmitter

Drawing ref : 49.860MHz TX SCH

IC1 (TX2B) is a 5 functional remote encoder IC. It's work with Q1,Q2,Y1 and other components combined as RF transmitter circuit. The IC pin 14,1,4 and 5 control left , right, backward , forward and encoding signal output respectively.

Data output from pin 8 and modulate with 49.86MHz oscillator that achieved by Q1, R4, R5, C4 and L1. RF power amplifier Q2, L2, R7, C9, C5, C6 is use to enlarge the transmission range, the output frequency through L4 and L3.

The unit makes use of external flexible 28 cm long antenna. The antenna is inductively coupled. The unit relies on the ground tract of the printed circuit board. No external ground is provided. Energy is supply by with a 9-volt battery