

27MHz

CIRCUIT DESCRIPTION

In transmitter, press the Forward, Forward-Left, Forward-Right, Or press the backward, Backward-left, Backward -Right, Or press the Left, Or press the Right, output U1 pin 8 supply encoding signal. Q2 & X is a crystal oscillator of 27.145MHz frequency. Q1 is a modulator. Output of Q1 drives the transformer L1. The antenna is coupled to the modulator by the transformer.

In receiver L1 is tuning 27.145MHz frequency. And Q1 is a RF amplifier and detector stage. SM6135 is a signal amplifier and decoder, it controls the output of SM6135 pin6, 7 and pin10,11. Q6\Q7,Q9\Q10,Q14\Q15,Q16\Q17 are left -motor driver, and Q2\Q3,Q4\Q5,Q10\Q11,Q12\Q13 are Right -motor driver.

ANTENNA AND GROUND CIRCUITRY

This unit makes use of an external flexible 55 centimeters long mast 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 supplied by 6F22 batteries(9 volts).