

37T27: 27.145MHz

CIRCUIT DESCRIPTION

In transmitter, press the Forward, Forward-Left, Forward-Right, Forward-turbo, Or press the backward, Backward-left, Backward -Right, output U1 pin 8 supply encoding signal. Q1 & X1 is a crystal oscillator of 27.145MHz frequency. Q2 is a modulator. Output of Q2 drives the transformer L3. The antenna is coupled to the modulator by the transformer.

In receiver WL1 is tuning 27.145MHz frequency. And Q1 is a RF amplifier and detector stage. U1 is a signal amplifier and decoder, it controls the output of U1 pin6, 7 and pin10,11, 12. Q8, Q9, Q15 and Q16, Q18 are regulator. Q4, Q5, Q6, Q7 are left / Right -motor driver, and Q11, Q12, Q13, Q14, Q15 are Forward/ Backward -motor driver.

ANTENNA AND GROUND CIRCUITRY

This unit makes use of an external flexible 15 centimeters 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 supplied a 9-volt battery.

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