



Model No: 91389 27.145MHz

## CIRCUIT DESCRIPTION

In transmitter, press the Forward or Backward, Left or Right, Up song, next song, Min. volume, Max. Volume And Play Key, output IC1 pin 15 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 T1 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 pin 15, 14, 1, 2, 3, 4, 13, 11, and pin 10. Q22, Q23, Q24, Q25, Q26, Q27 are Forward And Backward motor driver, and Q4, Q5, Q6, Q7, Q8, Q9 are Left And Right motor driver. Q10 control on-off, Q11 is control reduce volume, Q12 control back song, Q13 control forward song, Q14 control increase volume

## ANTENNA AND GROUND CIRCUITRY

This unit makes use of an external flexible 48 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.