

## **Circuit Description**

The Radio Frequency of the receiver is based on standard 49.86MHz AM (Amplitude Modulation) citizen's band. A low power local oscillator frequency of 49.820 ~ 49.900MHz, generated by components of Q1, C3, L2, C2, R2, C11, C6, R1, C4, L3, couple with antenna input via components of C1, Q2, R11, R6, C22, L1 to discriminate RF signals from transmitter. The demodulated signal is sent to the Pin 14 of U1 by R4 and C7, and then is amplified by R6, C14, R7, R8, C13, R9, R10, C12 and U1. The amplified signal is passed to the pin 3 of U1 and is decoded to control commands by internal circuit of U1. The control command signals drive the motors via U3 and U4 accordingly.