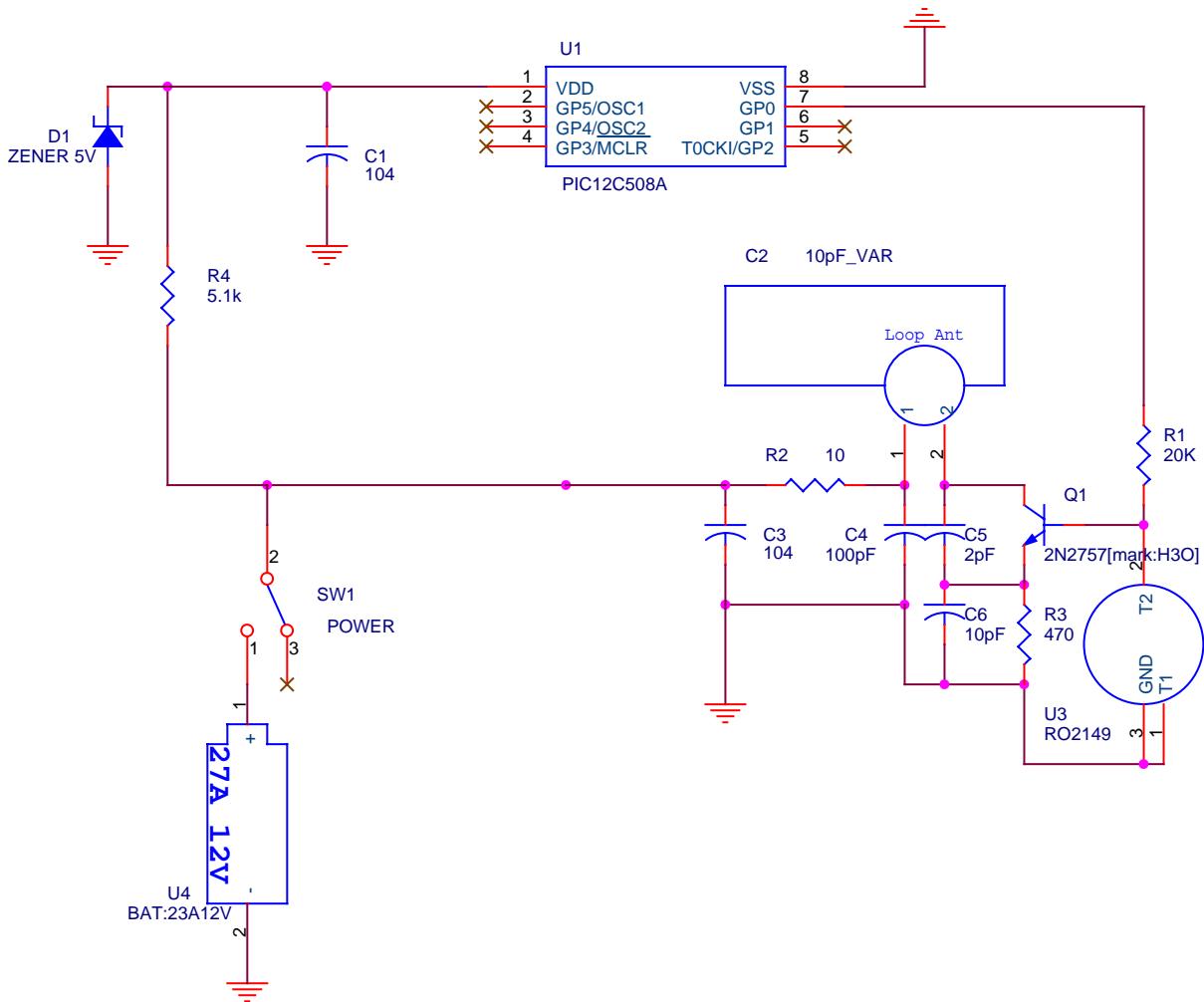


APPENDIX 4

System Schematics



* Transmitter

BAT23A12V (12V Battery) is supply to Micro Controller after voltage drop into 5V through Zener diode D1. SAW RESONATOR (RO2149) allows to generate into 311.06 MHz in itself.

The current that has passed 10 creates ASK in accordance with switching wave by TR. The ASK is changed into radio wave through loop-antenna. And then the radio wave is radiated.

Kid Guard is composed of PreEmble, Product ID and Control ID.

Internal PIC12C508 chip transmits every 15 sec interval by program.

Each transmission is 0.15 sec and then stand-by for transmissions is 15sec.

Kid Guard Receiver analizes product ID signal and control ID signal by using polling method after receiving signal from Kid Guard(transmitter) for 15 sec. If it receives Product ID signal or Control ID signal more than one time, it is recognized.