

TA33

Circuit Description

When any button is pressed, the Coding IC HS1527 is powered on, and encode the keying and the build-in address to serial data which are output from DO pin. The data are combination of high pulse and 0 level which will make the surface acoustic wave oscillator SAW1 and triode Q1 to oscillating or not. The oscillating signal will be coupled to the micro-strip line on PCB through which the signal is emitted out. So, this is the typical ASK or OOK modulation circuit.

The transmitter uses the micro-strip line on PCB act as the antenna. The transmitting power is very low.

Tech. Specification

Rated Voltage: 12V (two 2016 type batteries)

Frequency: $433.88\text{MHz} \pm 200\text{KHz}$

Frequency Channel: 1

Transmitting power: $<10\text{dBm}$

Modulation: ASK

Static Current: 0mA

Transmitting Current: $<15\text{mA}$

Temperature: $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$