TA20

Circuit Description

When any button is pressed, the Coding IC HCS320 wakes up (It will sleep and output nothing when all buttons are released), 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.