

Circuit description of SIMON remote unit

When the button of the remote unit is pressed, the power is applied to the Encoder IC and RF ASK Mod Oscillator Stage (Q1) through the Diode OR Gate (D1,D2). The Encoder IC is generated to the security code and data (Manchester coding) according to the button switch, and applied to the transistor Q1-base of the ASK MOD oscillator stage. The ASK MOD oscillator stage is consisted of the alternated Collpitz type oscillator (Q1,TC1,C1,C2,C3), and oscillated at the frequency of 300MHz band when the transistor Q1 base is biased, and stoped to oscillate when the transistor is no biased. The ASK modulation is performed by the Encoder data status, and the signal is radiated through the PWB loop antenna.