

Circuit description of TXA-3B527 remote unit

When the button of the remote is pressed, the switching transistor (Q2) is turn ON and the power is applied to the Encoder I.C (U1) and RF ASK Mod Oscillator Stage (Q1). The Encoder I.C (U1) 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 SAW resonated oscillator (Q1,SAW1,C6,C7,C8,R3,loop antenna), and oscillated at the frequency of 315MHz band when the transistor Q1 base is biased, and stoped to oscillate when the transistor is not biased. The ASK modulation is performed by the Encoder data status, and the r.f signal is radiated through the Integrated PWB loop antenna.