Theory of operation (Model: Vellux Bell)

Vellux Bell uses FSK modulation, adopted internal antenna, and uses A23 type of battery for input power.   When pushing the bell button, LED1 is lighted so user can acknowledge the power was activated.

When pressing the bell button, Encoder IC(IC1) sends "the unique ID information which was set by default using SW4 Dip switch and button information" to the Modulation input port (TP4) of RF circuit.   "The modulation signal produced by X1 and Q1 circuit" and "the data received from TP4" is mixed and then make modulated Tx signal.

The modulated Tx signal is amplified by Q2 circuit, and the signal is radiated through the Antenna(ANT1) in the air.

The RF circuit receives the input power about 0.1~0.2 sec which is controlled by Q4 and Q5 circuit, and the set operates only this limited time.   That is, the Tx time (duration time) is controlled by Q4 and Q5 circuit.