

CIRCUIT DESCRIPTION

Device: Narrow Band FOB

Model: WLS919NB

ESI Identifier:

Schematic Diagram:

Description:

The narrow band LC FOB (NB LC FOB) sends commands encoded appropriately to the control unit of the wireless security system. Four switches (buttons) are incorporated to send different commands.

This unit consists of two main circuit sections. A control section with a microprocessor & digital logic and the RF transmitter.

The control section receives input key information that is then coded to produce the ASK modulation signal. This section also controls transmitter activity.

The transmitter consists of a crystal reference oscillator, a divide-by-32 prescaler, and a phase detector forming a phase-lock-loop (PLL)system. The phase comparator compares the reference frequency and the divide-by-32 output signal frequency, if there is any difference, it will produce an error voltage to lock the free running VCO to 433.92MHz. A RF amplifier with matching compensation provides the output signal to the antenna.