

Operation Description

Operation Frequency: 914MHz, 914.5MHz, 915MHz

Modulation Type: FM

After powered on, MCU initializes phase locked loop to select relevant RF frequency in accordance with switch position (1: 914 MHz, 2: 914.5 MHz, 3: 915 MHz).

Audio input R & L are processed at voltage level and audio compression. The signals are coded to be 19 kHz stereo FM by MCU. After that, the signals are oscillated, modulated, amplified and transmitted by antenna.

工作原理描述:

上电时 MCU 对 PLL(锁相环)进行初始化,使发射频率对应于频率选择开关(1 档 914M 2 档 914.5M 3 档 915M)而音频输入信号 R、L 则通过电平调整、语音压缩后,在微处理器的控制下进行符合 19KHZ FM 立体声编码,编码后输入压控振荡电路,经调制缓冲放大后经天线发射出去.