



MKA-381 MICROPHONE PART

The wireless microphone is use the frequency modulation. The voice signal is through the microphone and microphone amplifier (Q1) apply to the modulator, the oscillation frequency is vary in accordance with the characteristics of the voice signal.

Base the characteristics of this VARACTOR DIODE MODULATOR, the oscillation frequency will be shift 20kHz from the frequency of crystal.

The LC B.P.F. (L2, C9) is capturing the 10 order harmonic of the oscillation frequency. This signal is apply to the 1st , 2nd RF amplifier and the output stage to transmitting.

MKA-381 RECEIVER PART

The receiver is use the super heterodyne technology. The receiving frequency and the local oscillation frequency is insert to the mixer, it is generate a large number of new frequency. In this circuit is use the 10.7MHz ceramic filter to select the intermediate frequency (IF). The IF signal is pass to the IF amplifier and the detector to recover to audio signal. The audio signal is amplified by the AF amplifier and output to the Power amplifier.