

Technical description of the HFK2MIC:

The HFK2MIC unit is an FM wireless microphone and transmits at the frequency of 40.675MHz for Handsfree car kit application.

The audio signal will be received into the omni directional electret microphone, the incoming signal will be amplified by Q1 and Q5 - BC847. The audio signal is feed-thru the Varicap diode D3 -1SV214 of the crystal controlled Colpitts Oscillator, consisting of Q6-BF93 and X1-crystal with tuning inductors / capacitors.

The antenna is a flexible wire extended outside the plastic box.

The unit is also equipped with a power-off delay of 3minutes by the ICs U1 and U2, for powersaving.

2.3V Low battery detection is sensed by U3 with Led indicators.

The power source is 3V given by two (2) AAA alkaline batteries.