

Technical Description :

The brief circuit description is listed as follows:

- U1 is the FM transceiver IC for wireless audio communication. It consists of microphone amplifier, speaker amplifier, VCO, Mixer, LNA, IF amplifier etc.
- Q1 and associated circuit is the amplifier for transmitted RF signal.
- Q2, Q3 and associated circuit is the amplifier for received RF signal.
- IC3 is a ring tone generator.

The CE-263H is a Walkie-Talkie operating at 27.145MHz. It transmits and receives FM signal. Press the Push-To-Talk button to transmit. Release the Push-To-Talk button to receive. At transmit mode, the voice is picked up by the microphone. This audio signal is then amplified and modulated by the RF IC U1. The FM signal is amplified by Q1 and then transmitted via the antenna. At receive mode, the received FM signal is amplified by Q2 and Q3 and then demodulated by the RF IC U1. This audio signal is then amplified and output by the speaker.

Antenna Used :

An integral antenna (non-extendable) has been used.