

Operation Description

This is a transceiver for Headset Walkie Talkie operation at 26.980 (B unit) and 27.260 (A unit) MHz which is controlled by a crystal. The Headset Walkie Talkie is powered by 9V battery. When the Headset Walkie Talkie (A unit) is power on, it can transmit a voice signal to another Headset Walkie Talkie. When it received a voice signal from another Headset Walkie Talkie, it will amplify the voice to speaker. It is the same function when operating in B unit.

The brief circuit description is listed as follows:

- Q4, x1 and associated circuit act as local oscillator
- Q1, Q3 and associated circuit act as modulator
- Q2 and associated circuit act as AF amplify
- L1 and associated circuit act as separation of transmitting and receiving signal
- Q5 and associated circuit act as mixer
- IC TDA1083 and associated circuit act as AMP, DET and AF AMP