

### **Operational Description of Transmitter AW880TX**

It is a RF audio transmitter operated at 912-914MHz to transmit the audio signal to the associated speaker. The EUT is powered by AC/DC adaptor, and has a audio input jack for audio source feeding.

#### **Circuit theory:**

The received stereo audio signal is fed into IC: AL6873M for ALC control, then sent to IC:EM78P153 for signal encoding. The encoded signal is passed to Q2, under phase lock loop and MCU control, FM modulation on 912MHz, 913MHz and 914MHz carrier frequency is proceeded at Q2 in order to generate RF signal. Finally the RF signal is amplified by Q1 and Q3, and then sent out via integral antenna.