

Applicant: Shen Zhen JWL Electronic Co., Ltd.

## HT-U20 Operational Description

### 1. Audio

#### 1) MIC AMP(VT1)

This amplifiers the voice signal of 50Hz~15KHz by about 20dB and makes pre-emphasis features of 50us.

#### 2) Regulator (N1)

This makes standard voltage for MIC AMP and RF part being supplied power from 9V Battery.

### 2. RF

#### 1) Oscillator (VT3)

This is a transmitting carrier oscillator that modulates the voice signal supplied for Audio to frequency and then oscillates third-time overtone and becomes standard oscillation for RF Carrier.

#### 2) MULTI (VT4)

This multiplies the frequency oscillated from VT3.(FREQ: 2 multiplied frequency)

#### 3) MULTI (VT5)

This also multiplies the frequency multiplied in VT4.(FREQ: 2 multiplied frequency)

#### 4) Buffer

This doesn't make the antenna affect the internal circuit when connecting the antenna and final carrier multiplied from VT5.

