



Circuit description

1. Audio

1)MIC AMP(U1)

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

2)Compressor(U2)

This does limit the amplitude and compresses the voice signal not to make the pre-emphasis overmodulated in RF Modulator.

3)Regulator(U3)

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

4)Adjust the Distortion

Adjusting the Distortion with semi-volume can minimize the noise of pre-emphasis, compressor and MIC AMP .

2. RF

1) Oscillator(Q1)

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

2) MULTI(Q2)

This multiplies the frequency oscillated from Q1.(FREQ : multiplied frequency)

3) MULTI(Q3)

This also multiplies the frequency multiplied in Q2(FREQ : multiplied frequency)

4) Buffer

This doesn't make the antenna affect the internal circuit when connecting the antenna and final carrier multiplied from Q3