

APPLICANT: SUNCON TOYS INDUSTRY LTD

FCC ID: GLE32-0200DP

**CIRCUIT DESCRIPTION:**

When Unit A is turned on it transmits on 49.86MHz, under 15.235. The crystal controlled oscillator Q4 generates the RF signal on 49.86MHz. The RF signal is coupled to Q5 through C20. The microphone audio is amplified in Q7 and then fed into the audio transformer T4 which modulates the supply voltage to Q5, the modulated stage. The output of Q5 is fed through the double tuned circuit T1 and then to L1 and then to the antenna. A small portion of the oscillator signal is coupled to the mixer Q1. The receive frequency 49.405MHz comes in the antenna to T1 and then is coupled through C2 to RF mixer Q1. From Q1 the signal is coupled through the tuned circuit T3 to the IF amplifier/detector IC1. From IC1 the detected audio signal is amplified in Q2, which in turn drives the output transformer T5. T5 is connected to the speaker.

Unit B transmits on 49.405MHz, under 15.209. When Unit B is turned on it transmits on 49.405MHz, under 15.209. The crystal controlled oscillator Q4 generates the RF signal on 49.405MHz. The RF signal is coupled to Q5 through C20. The microphone audio is amplified in Q7 and then fed into the audio transformer T4 which modulates the supply voltage to Q5, the modulated stage. The output of Q5 is fed through the double tuned circuit T1 and then to L1 and then to the antenna. A small portion of the oscillator signal is coupled to the mixer Q1. The receive frequency 49.86MHz comes in the antenna to T1 and then is coupled through C2 to RF mixer Q1. From Q1 the signal is coupled through the tuned circuit T3 to the IF amplifier/detector IC1. From IC1 the detected audio signal is amplified in Q2, which in turn drives the output transformer T5. T5 is connected to the speaker.

**ANTENNA AND GROUND CIRCUITRY**

This unit makes use of an 8" external antenna. The antenna is inductively coupled. The unit is powered from a 9.0 volt battery.

No ground connection is provided. The unit relies on the ground track of the printed circuit board.

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