

APPLICANT: GMT INDUSTRIAL LTD.

FCCID: BSYWT-55410

CIRCUIT DESCRIPTION:

In the receive mode the signal comes in on the receive antenna to the double tuned circuit T1 to the super-regenerative detector TR1, where the audio is detected. From TR1 the audio goes to the volume resistor R7 to the input to the three(3) stage audio amplification, TR2, TR3 & TR4. TR4 drives the audio output transformer T2 which is connected to the speaker.

In the transmit mode the speaker is switched so that it is connected to the input to the audio amplifiers TR2, TR3 & TR4 and the output of TR4 drives the transformer T2, which modulates the voltage of the crystal controlled oscillator. TR1, the crystal controlled oscillator is the transmitter. TR1 is connected to the antenna via the output filter made up of T1, & 1.8uH.

ANTENNA AND GROUND CIRCUITRY

This unit makes use of a short, antenna. The antenna is inductively coupled. The antenna is self contained, no provision is made for an external antenna. This unit is powered from a 9.0V battery.

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

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