

APPLICANT: LOYAL TECHNOLOGY CO., LTD.
FCC ID: ICK-0091

CIRCUIT DESCRIPTION

Receiver Circuit

The flexible 13cm long antenna is inductively coupled to transistor Q2 the regenerative mixer and detector. The detected audio is then routed to audio amplifier Q5. The output of the audio amplifiers drives transformer L4 and speaker SP2.

Transmit Circuit

Q1 is the crystal oscillator which is modulated by the output of the same audio amplifier chain of Q3, Q4, and Q5. The audio input is now from mic1.

The antenna in transmit is transformer coupled (L2) to the crystal oscillator circuit.

Broadcast Circuit

This circuit is a wide dispersion audio transceiver consisting of Q3, Q6, Q7, and Q8. This uses the microphone and a separate speaker SP1 and is used without the RF circuitry like in using a megaphone.

Power and Ground.

Energy is supplied by a 9 Volt battery. No external ground connection is provided and what ground that's available is from the printed circuit board.

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