

APPLICANT: LOYAL TECHNOLOGY CO., LTD.
FCC ID: ICK-WT-226

Circuit Description

Transmitter Portion

The RF circuit of the transmitter consists of Q1 a crystal oscillator circuit, which is transformer coupled to the antenna. Modulation is provided by voice input to the microphone MIC and amplified by transistor circuits Q2 and Q3. A morse code key circuit consists of switch SW and associated circuit that causes Q2 to oscillate in the audio range.

Receiver portion

The receiver and transmitter share the same transistors and their circuit configuration changes based on the position of the push to talk switch SW1. Q1 now becomes the RF amplifier/detector. Q2 and Q3 become audio amplifiers that drive transformer T2 that is coupled to speaker SP1.

Antenna and Ground and Power Source

The antenna consists of a 13 cm spring like wound wire sheathed in plastic tubing and covered with a plastic cap. No external ground connection is provided and the printed circuit board trace is the only ground. A 9Volt battery supplies power to the circuits controlled by switch SW2.

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