

# **Circuit Description of 27390 Transmitting Unit**

## **Power Supply**

Power from battery is supplied to other circuit through D1.

## **Mic Amplifier**

Signal from microphone is amplified by Q2 . The mic signal is output at L2 and then fed to FM modulation circuit.

## **RF Frequency Oscillator**

The crystal oscillator circuit consists of X1, Q1, L1, C5, C6 and R7. The oscillating frequency is mixed with the audio signal from L2, thus performing the FM modulation.

## **Transmitter RF Power Amplifier**

The RF Power Amplifier consists of Q3 and L3. The RF signal is amplified before it is transmitted by antenna.

## **Antenna Matching Circuit**

Signal from RF Power Amplifier is transmitted by antenna through the matching circuit, C7 and L4 to reduce the unwanted harmonic.

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