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Technical Description

BWR10X is a set of transmitter and receiver units. The transmitter is used to get a weight measurement. After weighing, the data is then sent to the receiver through 433.92MHZ carrier frequency. The receiver then picks up the data and then displays on LCD with the Body-Mass Index (BMI) optionally.

The transmitter is made of a Colpitts oscillator, where 433.92MHz SAW resonator provides the center frequency. L3 to R6 are the components of the matching network to an antenna. This transmitter is worked on OOK modulation scheme.