

The BHDR619A is a set transmitter unit & receiver unit (BHDR229A). Its function is a wireless doorbell (personal ringer) with maximum 25-meter transmission range.

The transmitter is made by Colpitts oscillator, where 433.92MHZ SAW resonator provides the center frequency. L2, L3, C6, C7, C8 & R9 are matching network between oscillator and antenna. Once the Transmitter is activated by user, it is transmitted the RF 433MHZ signal for 2.54 second.

The receiver is a super-regenerative type. U8-A is an envelope detector and U8-B is a comparator. U3 is a melody IC, provided the music signal. C41 is to matching between antenna & super-regenerative receiver.