

Applicant:

Heath Company
455 Riverview Drive
Benton Harbor, MI 49022

Manufacturing Location:

Heath Company Ltd.
Rm. 704 Star Centre
443-451 Castle Peak Road
Kwai Chung, Hong Kong

Circuit Description

The SL-6132-TX is a Wireless Remote Control Transmitter to be sold to operate our Heath Zenith receivers that are used to control lighting, appliances and other similar loads. Currently, this transmitter will activate our SL-6133, SL-6136, SL-6137, and SL-6139 receivers. It will initially be packaged with the SL-6139-RX and SL-6136-RX receivers. The transmitter is operated by a 9V battery.

Two "channels"(modulation frequencies) are available, A and B, which correspond to two different modulation frequencies, 28 KHz and 30 KHz. Each side of the front push button activates a different channel. The receivers are manufactured with one frequency of crystals installed and the receivers are marked A or B.

Transistors Q1 and Q2 form the crystal oscillator used for modulation for channel "B" and operates at 30KHz. Transistors Q3 and Q4 form the crystal oscillator modulator for channel "A", 28 KHz. These oscillators operate continuously at low power whenever the battery is installed. This eliminates the start-up drift of the modulation frequency which could occur when the transmitter is activated.

U1 sections C and D and U2 sections B and C form retriggerable monostables which sets the minimum transmit time to approximately 150mS to eliminate contact bounce and short burst transmissions.

Q3 is the rf oscillator and is factory adjusted to 315MHz by capacitor VC. The output is activated when pin 3 of U1A is a logic high and deactivated when pin 3 is low. The antenna consists only the small internal tuning loop and pcb foils.

Alignment

There are no user accessible adjustments. During manufacture the carrier frequency is adjusted by tuning capacitor VC to 315 MHZ.

Service

There are no user servicable parts in this product.

List of Generated Frequencies:

315 MHz rf oscillator stage

28KHz or 30KHz modulation