

LABEL LOCATION:

Label information is engraved on the back of the unit.

- MODEL: 7858VHD
- FCC ID: EZS7858VHD
- IC: 1513A-7858VHD

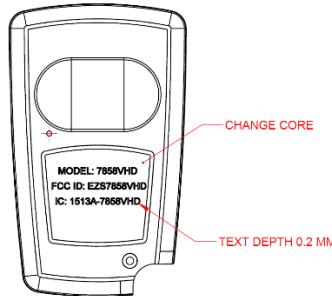


Figure 10: 7858VHD Bottom Housing

OPERATING DESCRIPTION

7858VHD Operating Description

As shown on the schematic and block diagram, the 7858VHD model is Two Way remote uses an MCU and RF Radio Transceiver.

When the user presses the unique button, the Microcontroller provides internally the related frame and channel to the RF transmitter. The RF chip modulated this frequency in DSSS(Lora) mode with the data frame provided by the internal Microcontroller, and each transmission uses the hopping channel from the frequency table and follows the hopping algorithm.

The 8channels are used equally, to respect the FCC rules.

As soon as the user is pressing the button, the remote transmits the same frame on different channels, including off time between each transmission. And if the user keeps pressing more than 25s the remote will stop transmitting and go to sleep mode.

7858VHD includes an RF switch to toggle between transmitted and received data.

The LED and Piezo are used to animate each button press, and the matching circuit maximizes power transfer filtering harmonics.

The remote also checks the low battery voltage level and advice the user through the LED and Piezo, to change the battery.

This remote has also BLE integrated on the MCU IC that is used to upgrade FW of the remote through OTA.