

## **36 Inches Outdoor Fireplace – Receiver Technical Description**

The receiver is operated by AC 12V. It consists of several parts, including RF AMP (Q4), DEMOD(Q5), Comparator(U5-A,B), Remote control decoder(U1 SC5272), Driver(U6 HT48R50) and Output stage(Q4,Q6).

When a signal is received through the antenna, the Input Stage, it will pass a Low Pass Filter to remove the carrier frequency. Then the signal will go through the M.F. Amp, Band Pass Filter and the comparator to retrieve the original encoded signal. The Remote Control Decoder will decode a correct signal to make or break the switch through the Driver in order to open or close the desired output in the Output stage.