# Circuit Description

Rated Input Voltage: DC 5V/2A or 9V/2A From Adapter

Operation Frequency:

Phone: 137.58kHz

Airpods: 118.26kHz

Apple Watch: 325.87kHz

Wireless Output:

Phone: 5/7.5/10Watts

Airpods: 5Watts

Apple Watch: 2.5Watts

The working principle of EUT is based on MCU JW5065+MCM8679

Three coils for transmitting

1. A mobile phone or other load that supports wireless reception is placed at the coil position, wireless charging is turned on, the coil transmit signal and the receiving coil signal are demodulated, and the signal is fed back to JW5065. It communicates with the charger protocol, which supports fast charging. to 9V, the load supports fast charging, JW5065 receives the 9V voltage signal, adjusts the 9V voltage and converts the DC power into an AC pulse signal through the conversion of two sets of MCM3364+P MOS, and transmits it through the coil.

2. A headset or other load that supports wireless reception is placed at the coil position, the wireless charger is turned on, the coil transmit signal and the receiving coil signal are demodulated, and the signal is fed back to JW5065. JW5065 and MCM3364 work, and MCM3364 performs high duty cycle. To work, the voltage meets the 5V power supply for wireless charging and transmitting work. JW5065 receives the 5V voltage signal, adjusts the 5V voltage and converts the DC power into AC pulse signal through the conversion of two sets of MCM3364+P MOS, and transmits it through the coil.

3. Iwatch is placed at the coil position through magnetic attraction of the coil. The coil transmit signal and the receiving coil signal are demodulated, and the signal is fed back to MCM8679. MCM8679 and MCM3141 work. The TYPE C port uses MCM8679 to perform high duty cycle work. The voltage meets 5V power supply wireless charging and transmitting work, MCM3141 receives the 5V voltage signal, adjusts the 5V voltage and converts the DC power into an AC pulse signal through the conversion of the LM358 full-bridge driver, and transmits it through the coil.