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## Wireless Power Transmitter Controller CP9050

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### 1. Description

CP9050 is a high-integrated solution for Qi Compliant Wireless Power Transmitter Controller. It is integrated communication demodulation circuit. Several protection approaches are included to avoid system run into abnormal condition such as overcurrent, low voltage, thermal protection, and offset protection. CP9050 can provides an application circuit for wearable application. For wearable applications, PWM directly driver MOSFET is featured.

### 2. Features

- Compatible with Qi 1.3.2
- 5V DC for CP9050 Power supply
- High performance at communication demodulation. The demodulation circuit is built in
- Status Indicators for
  - ✓ Charging
  - ✓ Charge completed
  - ✓ Error (Transmitter over current , Qi standard error message)
  - ✓ Standby
- Auto detecting the object put-on and removal
- Over current protection.
- Over Voltage Protection
- Learning function when the coil is changed.
- Package: 20TSSOP
- Low Power Supply Consumption
- Support a dedicated receiver

### 3. Applications

- Wearable product
- Cell Phone, Smart Phone
- Hand-held Device
- Portable Products (Audio, Media, Headsets)

## 10. Application Schematics

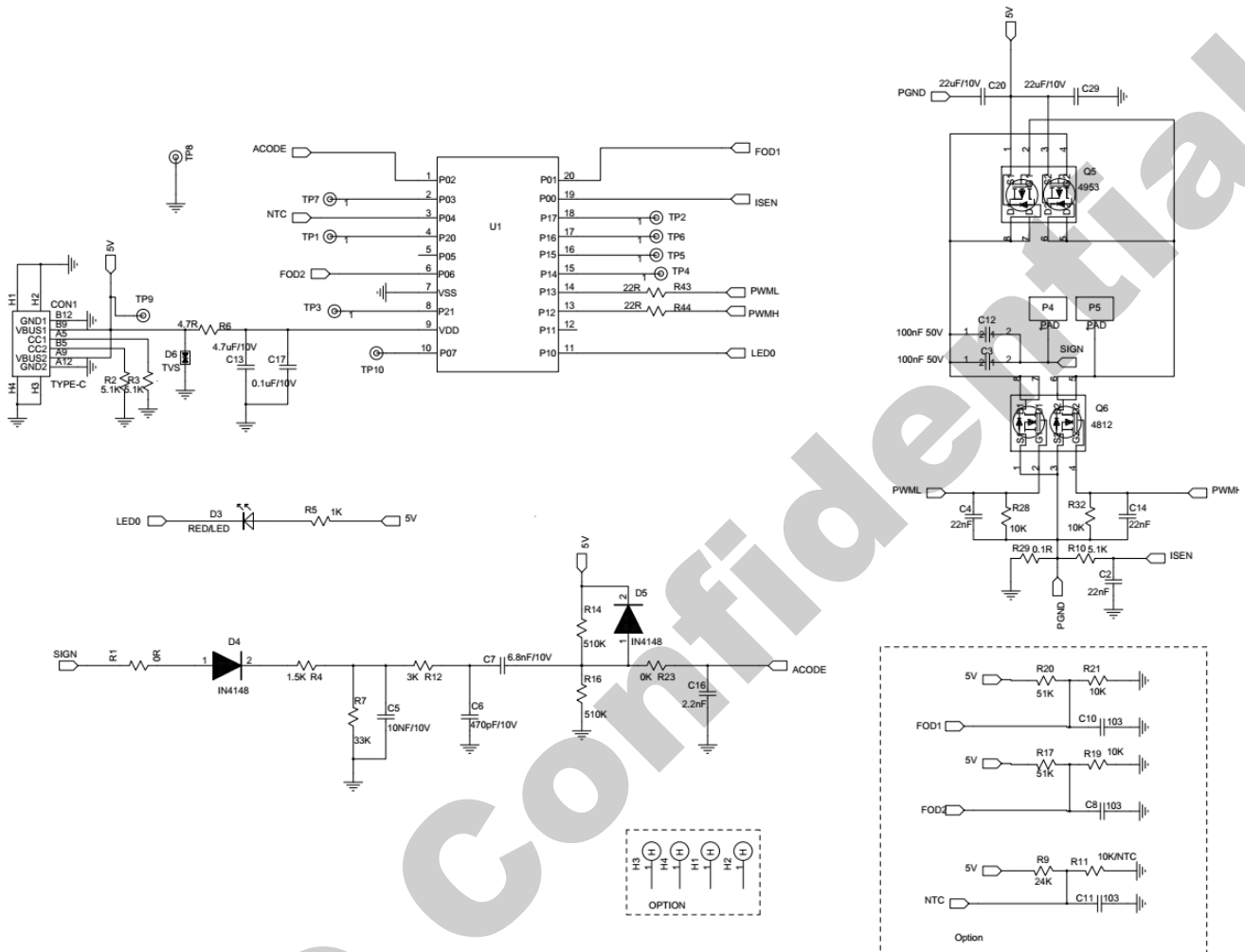


Figure 3. Application Schematics

## 11. Layout Guidelines

Follow CP9050 DEMO PCB Design

## 12. Ordering Information

Product Number	Package Type	SPQ
CP9050	TSSOP20	2500