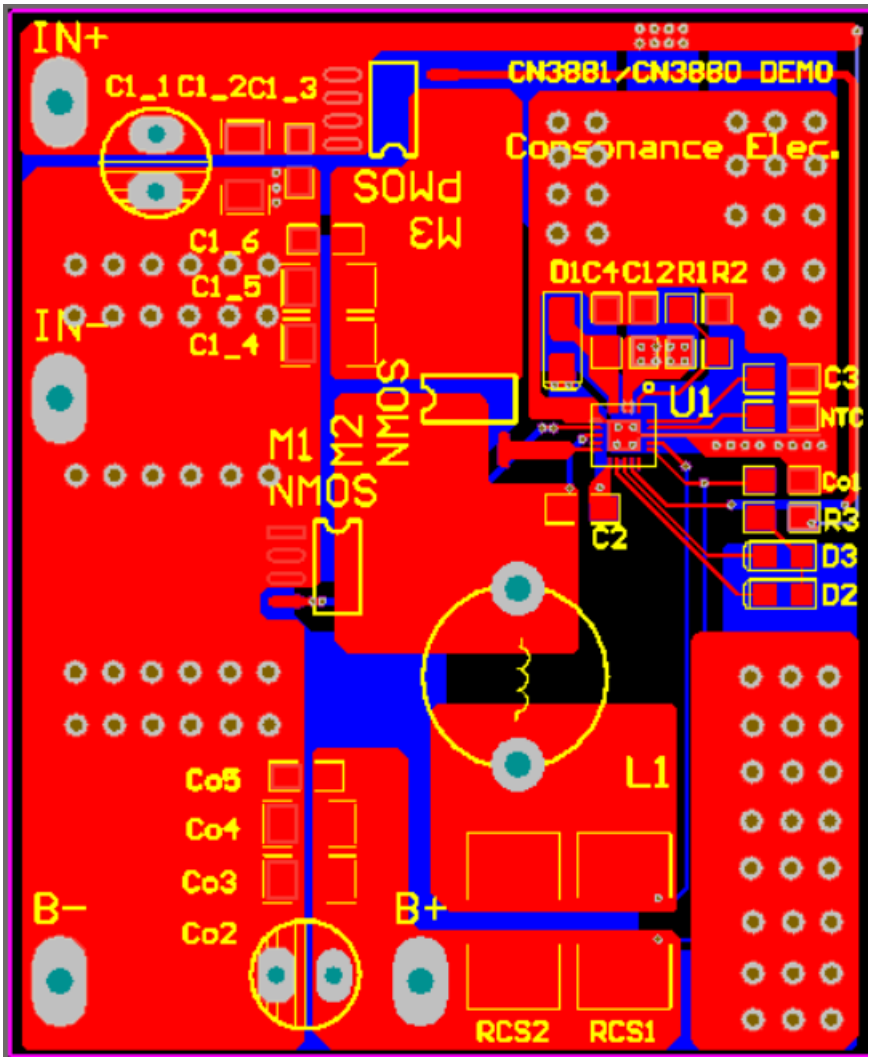
# Quick Start of CN3802/CN3881 Demo Board

## 1、Overview

CN3881 demo board is for the purpose of fast evaluation of CN3880/CN3881.

## 2、PCB Layout of CN3802/CN3881 Demo Layout




## 3、Component List and Descriptions

| No. | Name | Description |
|---|---|---|
| 1 | IN+ | Positive Terminal of Input Power Supply. |
| 2 | B+ | Positive Terminal of Battery. |
| 3 | B- | Negative Terminal of Battery. |
| 4 | IN- | Negative Terminal of Input Power Supply. |
| 5 | M1 | NMOS transistor, NMOS transistor packaged with SOP8, such as AO4410. |

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|---|---|---|
| 6 | M2 | NMOS transistor, NMOS transistor packaged with SOP8, such as AO4410. |
| 7 | M3 | PMOS transistor, PMOS transistor packaged with SOP8, such as AO4407A. |
| 8 | CN3881 | The Charge Management IC CN3802/CN3881. |
| 9 | D1 | Schottky Diodes. It can be used 1N5819 and packaged with SOD123. |
| 10 | D2 | LED for Charge Termination Indication. |
| 11 | D3 | LED for Charge Indication. |
| 12 | L1 | Inductor. |
| 13 | $R_{CS2}$ $R_{CS1}$ | Charge Current Sense Resistor. Used to set the charging current, and the calculation formula is Ich=0.08/RCS. |
| 14 | C1_1，C1_2，C1_3 | Input Supply Bypassing Capacitor. |
| 15 | C1_4，C1_5，C1_6 | Input Supply Bypassing Capacitor. |
| 16 | C12 | Chip input pin bypass Capacitor. 2.2uF-10uF can be used. |
| 17 | C2 | Ceramic Capacitor, the Capacitor value should be 100nF. |
| 18 | C3 | Ceramic Capacitor, the Capacitor value should be 100nF. |
| 19 | C4 | Ceramic Capacitor, the Capacitor value should be 10uF. |
| 20 | Co2，Co3，Co4，Co5 | Output capacitor, ceramic capacitor. |
| 21 | Co1 | Chip output pin bypass capacitor. 2.2uF-10uF can be used. |
| 22 | R1 | MPPT resistor setting, please refer to the CN3881 technical specification for details. |
| 23 | R2 | MPPT resistor setting, please refer to the CN3881 technical specification for details. |
| 24 | R3 | Light emitting diode current limiting resistor. Choose different resistance values according to the brightness requirements of the light emitting diode. |
| 25 | NTC/10K | NTC shielding resistor, with a resistance value of 10k Ω. |