

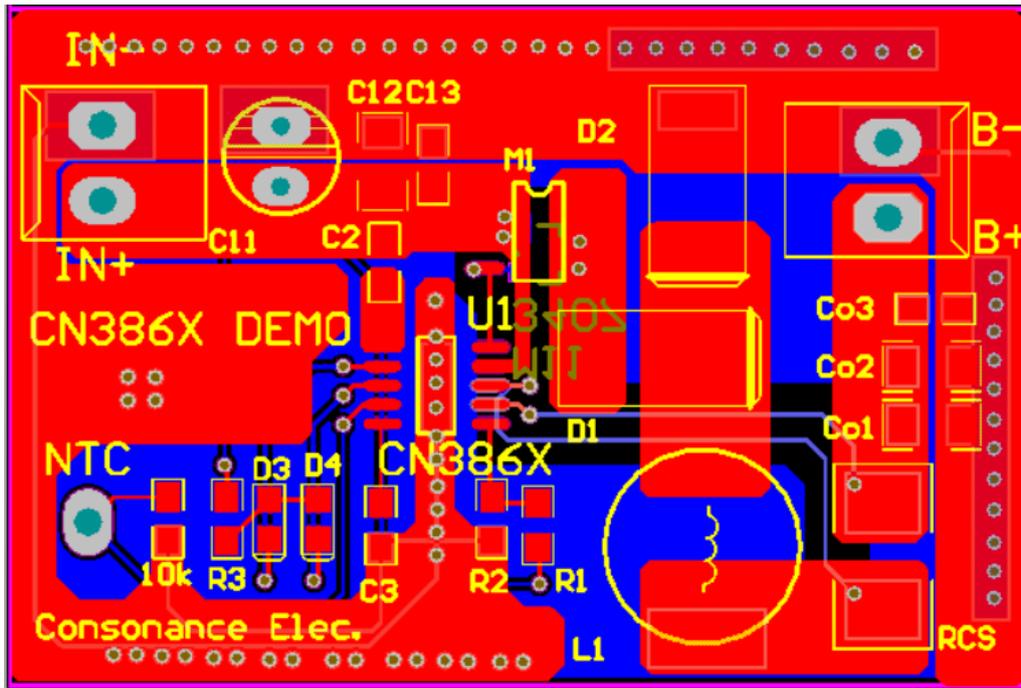
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Quick Start of CN386X Demo Board

1、 Overview

CN386X demo board is for the purpose of fast evaluation of CN3861/CN3862/CN3863/CN3864/CN3865/CN3866.

2、 PCB Layout of CN386X 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	P channel MOSFET. On one side of the demo board, the footprint of SOP8 package is available, and on the other side of the demo board, the footprint of SOT23-3 is provided. Users can select the right P channel MOSFET based on the technique requirements.
6	CN386X	The Charge Management IC CN3861/CN3862/CN3863/CN3864/CN3865/CN3866.
7	D1,D2	Schottky Diodes.
8	D4	LED for Charge Termination Indication.
9	D3	LED for Charge Indication.
10	L1	Inductor.
11	R _{Cs}	Charge Current Sense Resistor. If charge current is large, there can be 2 resistors in parallel.

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12	C11, C12, C13	Input Supply Bypassing Capacitor.
13	C2	Ceramic Capacitor, the capacitance value should be 100nF.
14	C3	Ceramic Capacitor, the capacitance value should be 100nF.
15	Co1, Co2, Co3	Output capacitor, ceramic capacitor, with a capacitance value that can be set to 10uF-30uF.
16	R1	MPPT resistor setting, please refer to the CN386X technical specification for details.
17	R2	MPPT resistor setting, please refer to the CN386X technical specification for details.
18	R3	Light emitting diode current limiting resistor. Choose different resistance values according to the brightness requirements of the light emitting diode.
19	10K	NTC shielding resistor, with a resistance value of 10k Ω .