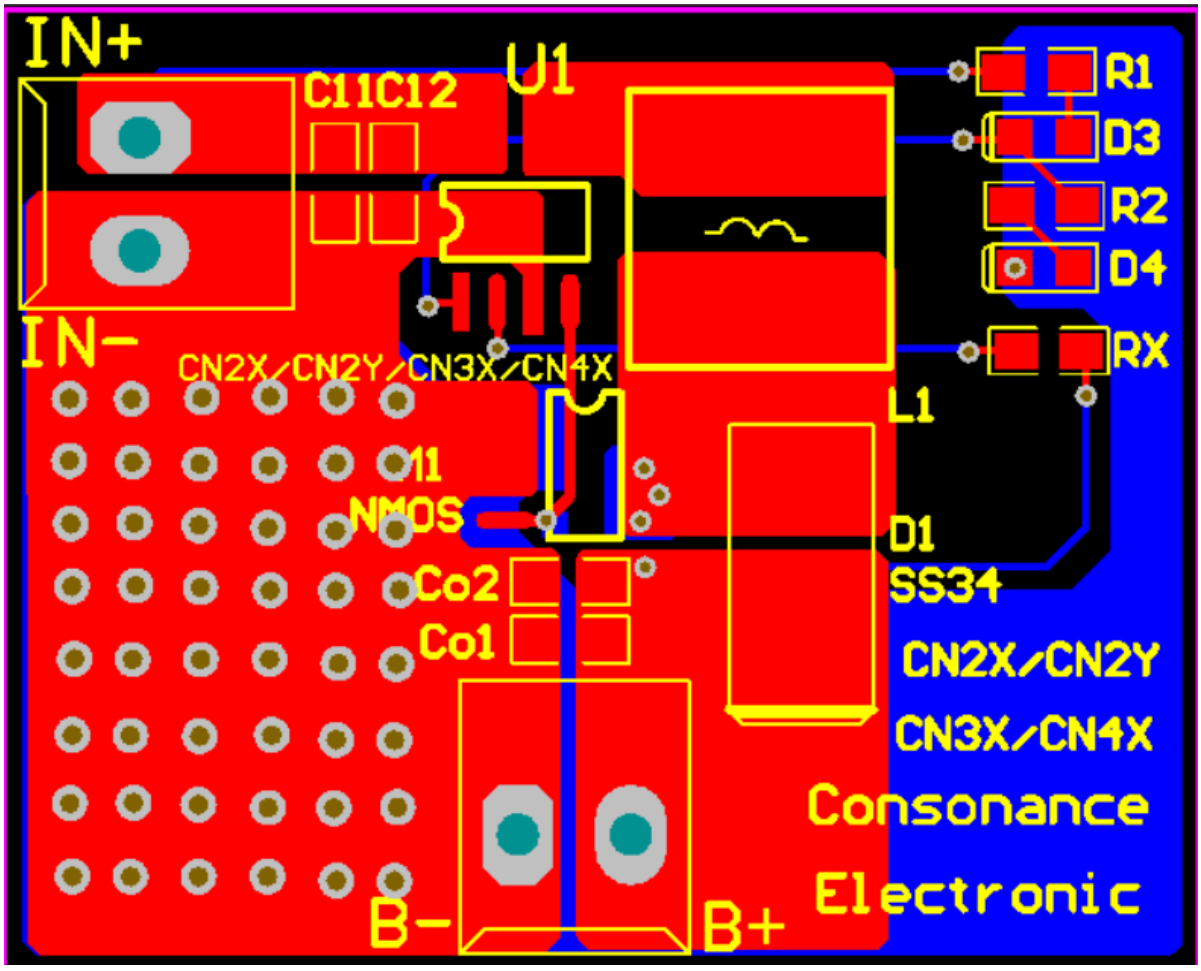
Quick Start to CN2X-CN2Y-CN3X-CN3Y-CN4X Demo Board

1. Introduction

Customers can use the CN2X/CN2Y/CN3X/CN3Y/CN4X demo board for evaluation and debugging. A complete charging circuit can be built according to the components listed below. In order to optimize the performance of CN2X/CN2Y/CN3X/CN3Y/CN4X, it should be studied with the “Design Example” mentioned on Page 11 of the CN2X/CN2Y/CN3X/CN3Y/CN4X datasheet.

2. CN2X/CN2Y/CN3X/CN3Y/CN4X Demo Board



3. Component Description

#	Name	Description
1	IN+	Terminal for Power Input (Positive)
2	IN-	Terminal for Power Input (Ground)

3	B+	Connection to Battery Positive Terminal
4	B-	Connection to Battery Negative Terminal (Ground)
5	U1	CN2X/CN2Y/CN3X/CN3Y/CN4X
6	R1	Resistor for Charge Termination LED Indicator. Generally, a 1k resistor is used.
7	R2	Resistor for Charge Status LED Indicator. Generally, a 1k resistor is used.
8	Rx	Resistor for Programming Battery Voltage . Use 0 ohms, and modulate the voltage at the preset voltage of the chip.
9	L1	Inductor (Please refer to CN2X/CN2Y/CN3X/CN3Y/CN4X datasheet.). Generally, 4.7uH-15uH is used.
10	D1	Schottky Diode (Please refer to CN2X/CN2Y/CN3X/CN3Y/CN4X datasheet.). Generally, SS34 is used in SMA packaging.
11	D3	Charge Termination LED Indicator
12	D4	Charge Status LED Indicator
13	M1/M1_1	NMOS; One is connected. (Please refer to CN2X/CN2Y/CN3X/CN3Y/CN4X datasheet.) The SOP8 package can use 4410, and the SOT23 package can use 3400.
14	C11/C12	Capacitors for Power Input (Please refer to CN2X/CN2Y/CN3X/CN3Y/CN4X datasheet.) Generally, a 10uF 0805 packaged ceramic capacitor or two in parallel are used.
15	Co1/Co2	Capacitors for Power Output (Please refer to CN2X/CN2Y/CN3X/CN3Y/CN4X datasheet.) Generally, a 10uF 0805 packaged ceramic capacitor or two in parallel are used.