

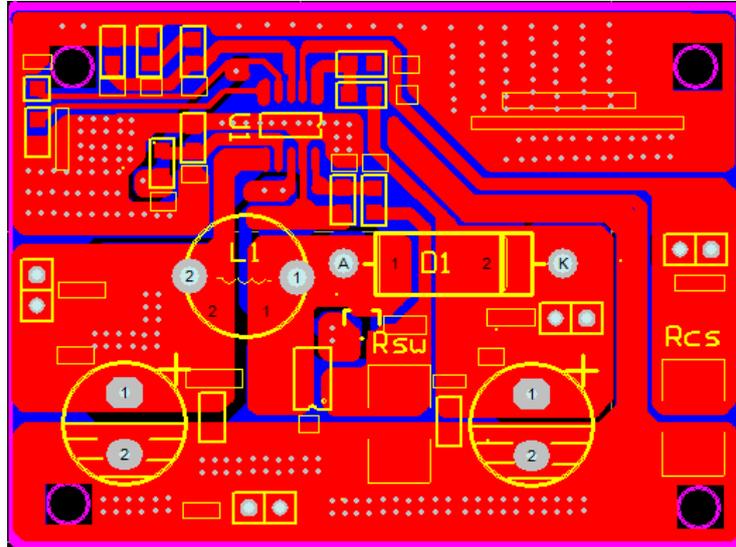
CONSONANCE

Quick start of CN5815 Demo Board

1、 Overview

The CN5815 demo board is for the purpose of fast evaluation of CN5815.

2、 PCB Layout of CN5815 Demo Board



3、 Component List and Descriptions

No.	Name	Description
1	VIN+	Positive Terminal of Input Supply.
2	GND	Negative Terminal of Input Supply (GND).
3	LED+	Positive Terminal of LED String.
4	LED-	Negative Termination of LED String.
5	DIM	LED Brightness Adjustment Input.
6	U1	The LED Driver IC CN5815.
7	R1, R2	LED Overvoltage Protection Setting Resistors.
8	R3	The Closed-loop Compensation Resistor.
9	R4	The Filtering Resistor.
10	EN/ON	Chip Shutdown Input.
11	Rcs	LED Current Setting Resistor.
12	Rsw	The Inductor Current Sense Resistor.
13	L1	Inductor.
14	D1	Schottky Diode.
15	M1, M1_1	The External N-channel MOSFET. The device that is available in SOP8 or SOT23-3 package can be used.
16	Cin, Cin_1	Input Bypassing Capacitor.
17	Co, Co_1	Output Capacitor.
18	C1, C2	The Closed-loop Compensation Capacitors.
19	C3	The Compensation Capacitor for +5V Regulator.
20	C4	The Filtering Capacitor.