

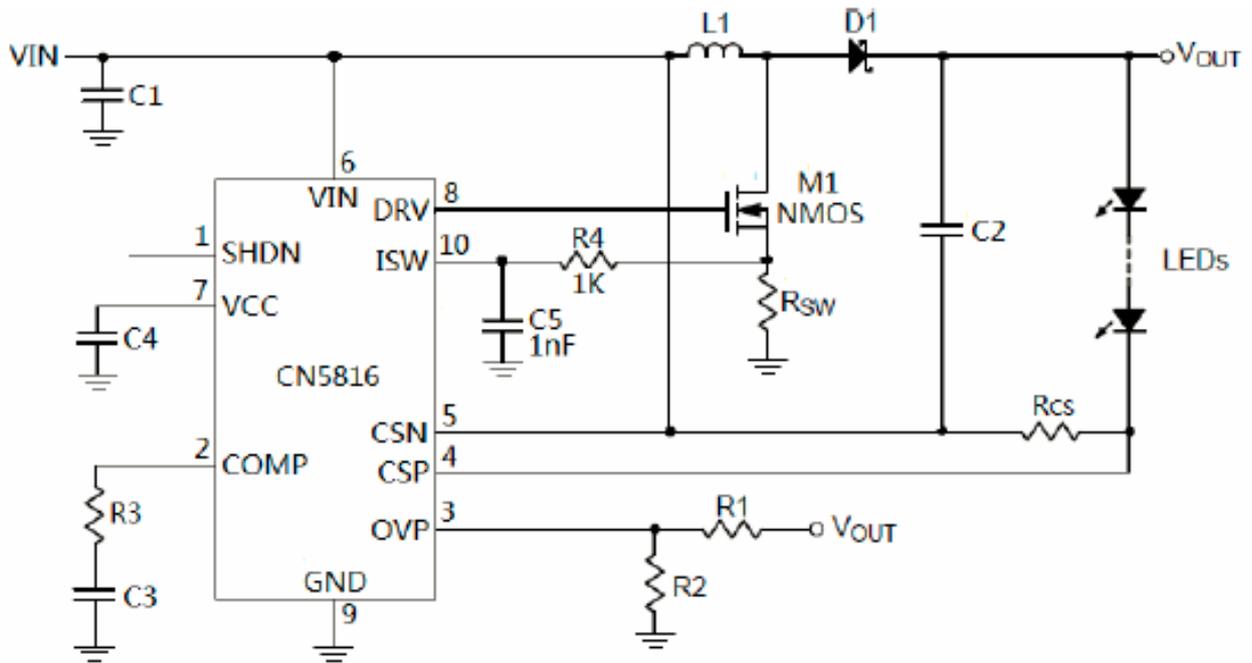
CONSONANCE

Quick Start of CN5816 Demo Board

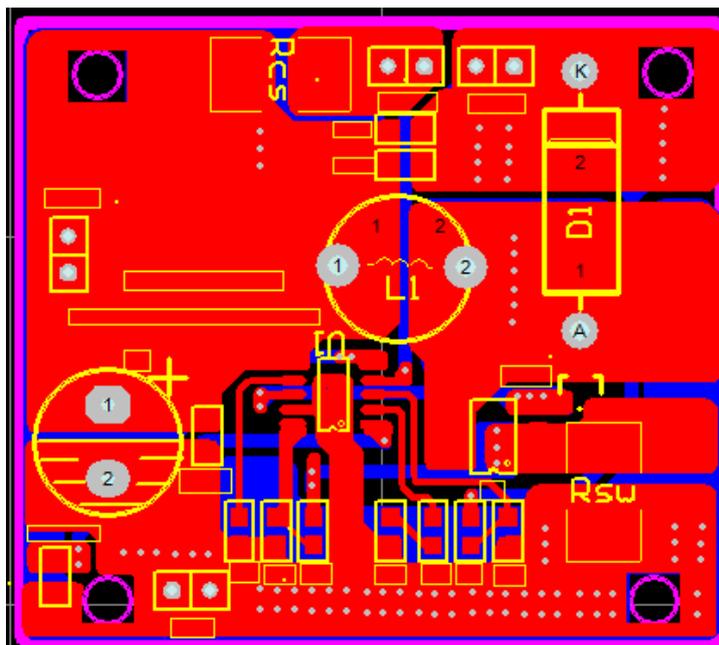
1、 Overview

The CN5816 demo board is for the purpose of fast evaluation of CN5816.

2、 Schematic of the Demo Board



3、 PCB Layout of CN5816 Demo Board



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4、 Component List and Descriptions

No.	Name	Description
1	VIN+	Positive Terminal of Input Power Supply.
2	LED+	The Positive Terminal of LED(s).
3	LED-	The Negative Terminal of LED(s).
4	GND	Negative Terminal of Input Power Supply (Ground).
5	M1,M1_1	The External N-channel MOSFET. The device that is available in SOT23-3 package or SOP8 package can be used.
6	U1	LED driver IC CN5816.
7	D1	Schottky Diode.
8	en/on	Chip Shutdown Input .
9	L1	Inductor.
10	Rcs	LED Current Sense Resistor.
11	C1, C1_1	Input Supply Bypassing Capacitor.
12	C2_1, C2_2	LED Current Filtering Capacitor.
13	C4	The Compensation Capacitor for +5V Regulator.
14	R4, C5	The filtering Resistor and Capacitor.
15	R1, R2	LED Overvoltage Protection Voltage Setting resistors.
16	R3, C3	The Closed-loop Compensating Resistor and Capacitor.
17	Rsw	The Inductor Current Sense Resistor.