



STEVAL-ISA039V1

Single phase 5A step-down converter evaluation board based on L6727

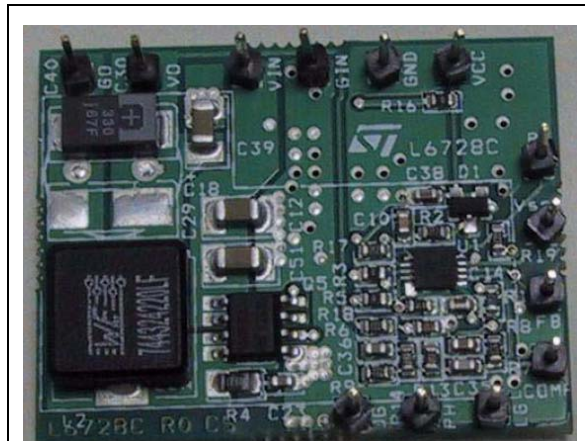
Data Brief

Features

- Input voltage: from 5V to 12V
- Output voltage: fixed @ 1.25V but customizable by changing resistor
- Output current: up to 5A
- Switching frequency: 300KHz

Description

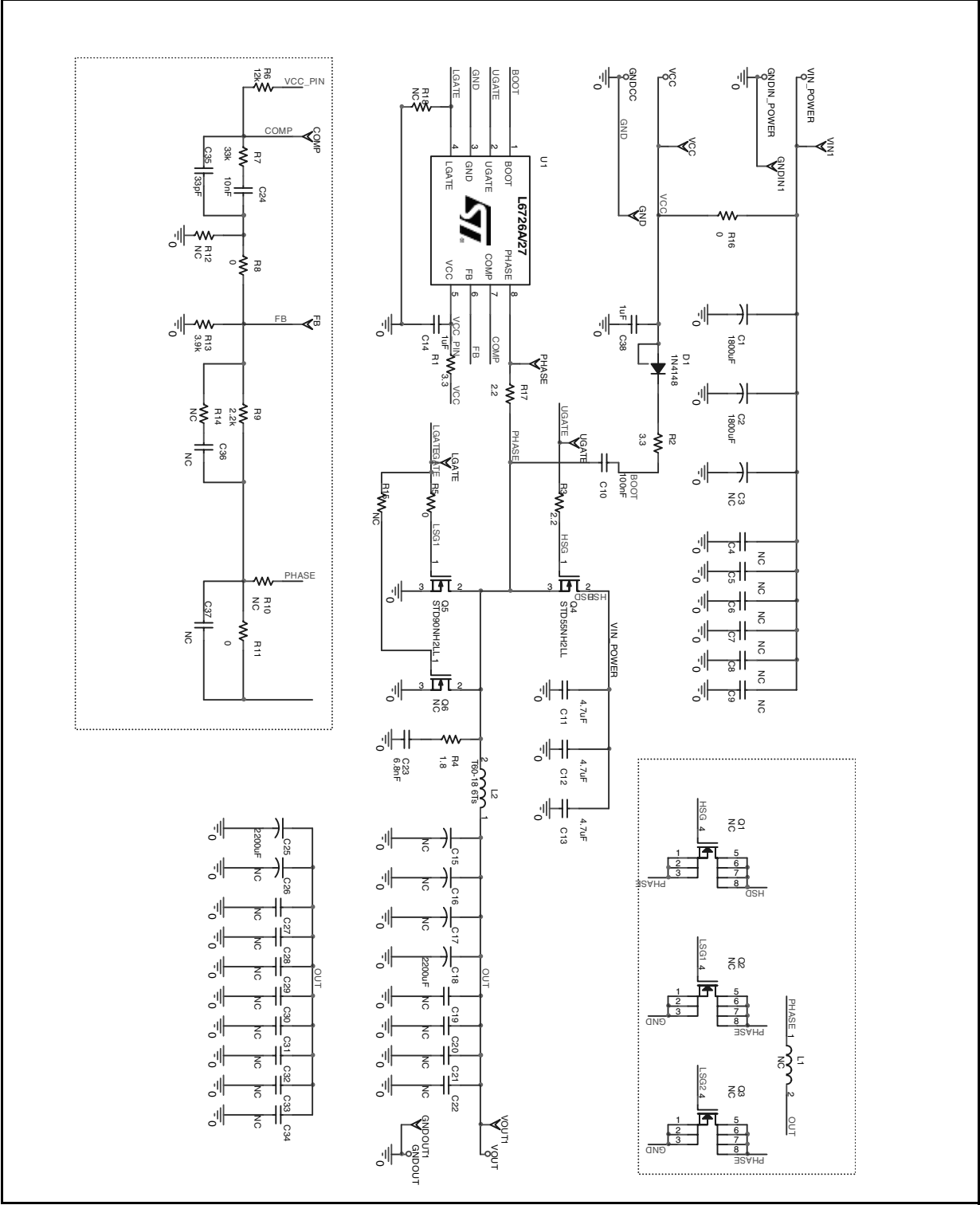
The purpose of this design is to demonstrate the key features of STMicroelectronics L6727 a new powerful buck controller. The L6727 allow simple, cost effective design of complete step-down voltage regulators. Indeed it provides a full solution by integrating a 0.8V reference, control logic and protection, and NMOS drivers in an 8-pin package. L6727 demo board realizes in a two-layer PCB a step-down DC/DC converter and shows the operation of the device in a general-purpose low-current application. The input voltage can range from 5V to 12V buses and the output voltage is fixed at 1.25V. The application can deliver an output current in excess of 5A. The switching frequency is 300 kHz.



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1 Board schematic

Figure 1. Schematic



2 Revision history

Table 1. Revision history

Date	Revision	Changes
10-Jul-2007	1	Initial release

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