



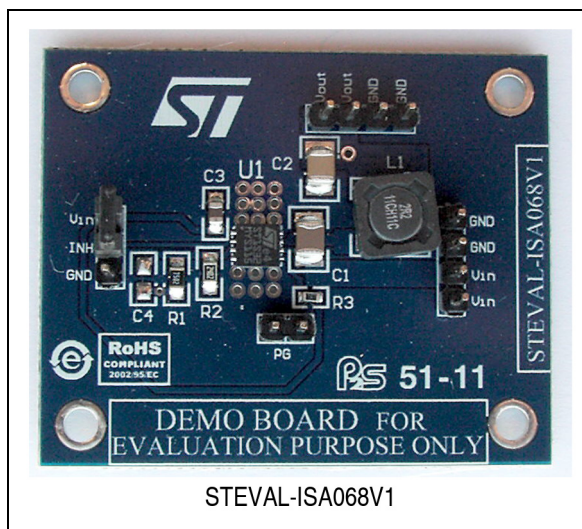
# STEVAL-ISA068V1

4 A / 1.5 MHz step-down synchronous switching regulator based on the ST1S32 in DFN 4x4 package

Data brief

## Features

- 4 A DC output current
- 2.8 V to 5.5 V input voltage
- Output voltage adjustable from 0.8 V
- 1.5 MHz switching frequency
- Internal soft-start and enable
- Integrated 60 m $\Omega$  and 45 m $\Omega$  power MOSFETs
- All ceramic capacitor
- Power Good (POR)
- Cycle-by-cycle current limiting
- Current foldback short-circuit protection
- RoHS compliant



## Description

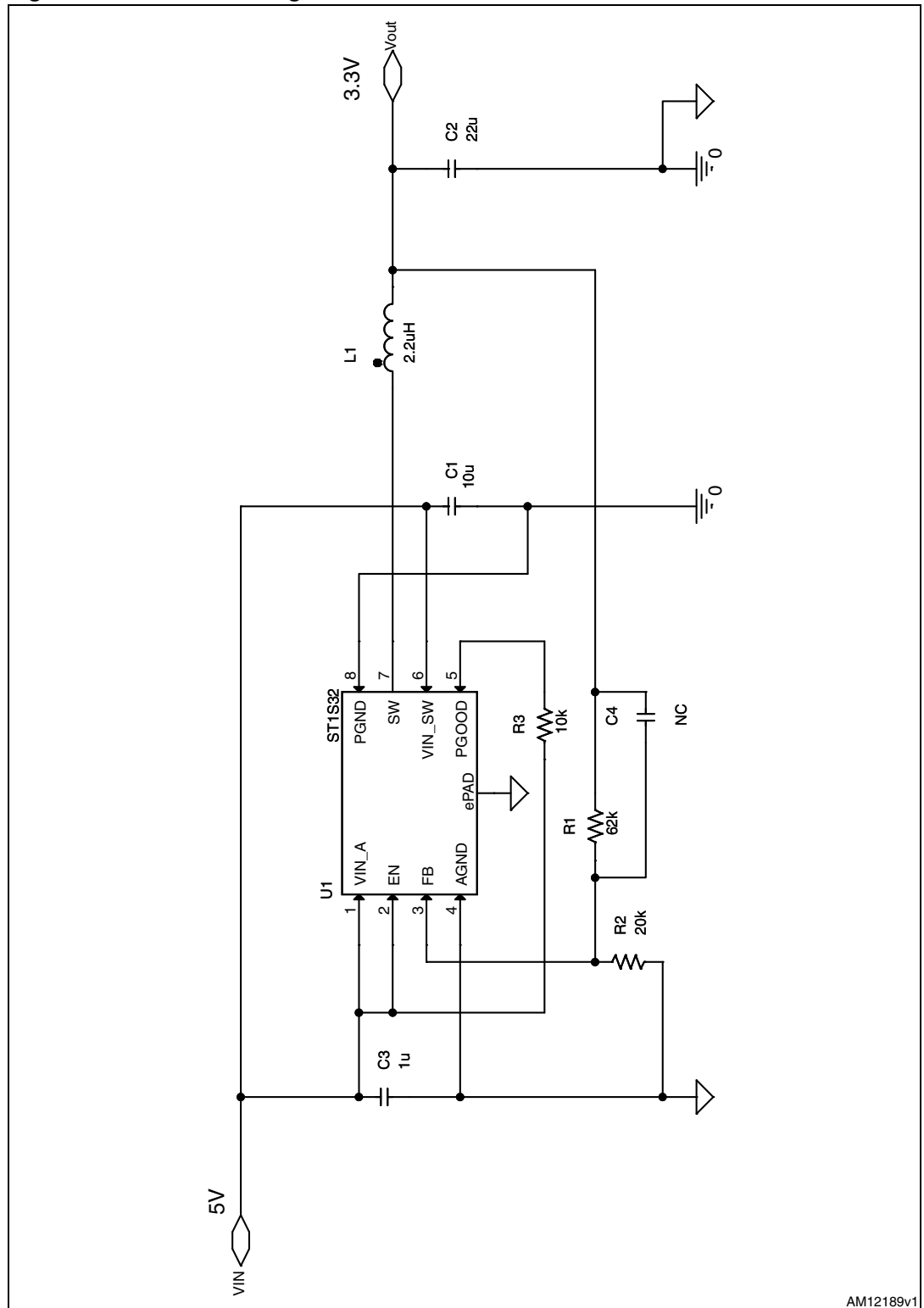
The STEVAL-ISA068V1 is based on the ST1S32, an internally compensated 1.5 MHz fixed-frequency PWM synchronous step-down regulator.

This device operates from 2.8 V to 5.5 V input, while it regulates an output voltage as low as 0.8 V and up to  $V_{in}$ .

The peak current mode control with internal compensation delivers a very compact solution with a minimum component count.

## 1 Schematic diagram

**Figure 1. Schematic diagram**



## 2 Revision history

**Table 1. Document revision history**

Date	Revision	Changes
06-Jun-2012	1	Initial release.

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