

# STEVAL-ISA090V1

## 3.5 A step-down switching regulator based on the L4973

Data brief

### Features

- Input voltage range: 8 V to 55 V
- Output voltage: 5.1 V ± 3% (line, load and thermal)
- Output ripple: 51 mV
- Output current range: 1 mA to 3.5 A
- Max output ripple current: 30%
- Current limit: 4.5 A
- Switching frequency: 150 kHz
- RoHS compliant

### Description

The STEVAL-ISA090V1 demonstration board provides a platform for evaluation of the L4973, a 3.5 A step-down monolithic power switching regulator operating in continuous mode.

Based on the selection of the external components, the device can operate in the entire input voltage range of 8 V <  $V_{IN}$  < 55 V. The output voltage is limited by the voltage rating of the output capacitor, so it can be adjusted within the 3.3 V <  $V_{OUT}$  < 30 V range through voltage divider R<sub>3</sub>, R<sub>4</sub>. The input and output capacitors are capable of sustaining the RMS current within the operating range.



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#### Schematic diagram 1

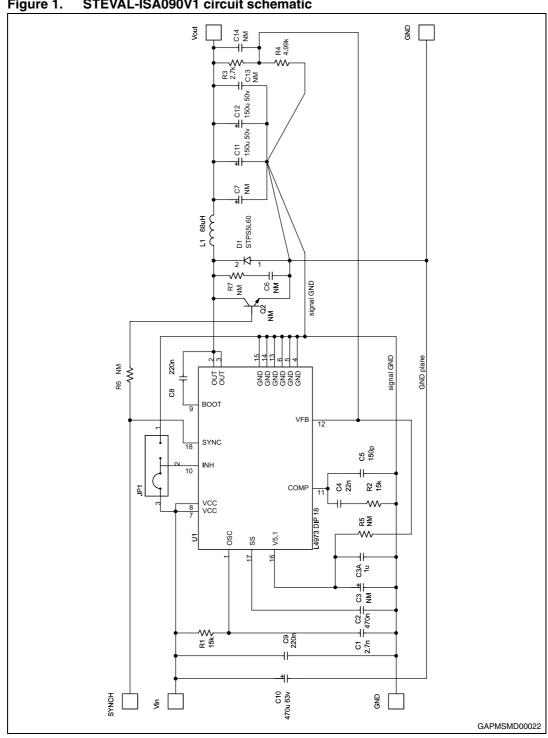


Figure 1. STEVAL-ISA090V1 circuit schematic





# 2 Revision history

Table 1.Document revision history

Date	Revision	Changes
01-Apr-2011	1	Initial release.



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