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STEVAL-ISA090V1

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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_3 , R_4 . The input and output capacitors are capable of sustaining the RMS current within the operating range.



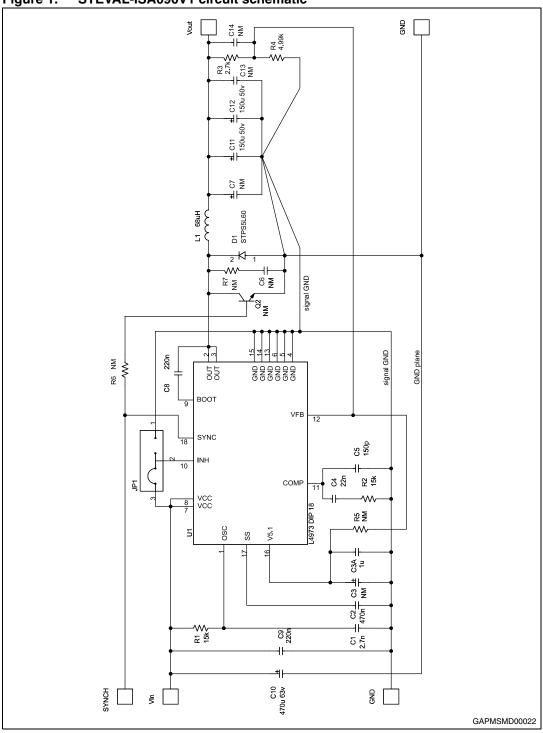
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Schematic diagram STEVAL-ISA090V1

1 Schematic diagram

Figure 1. STEVAL-ISA090V1 circuit schematic







STEVAL-ISA090V1 Revision history

2 Revision history

Table 1. Document revision history

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





Distributor of STMicroelectronics: Excellent Integrated System LimitedDatasheet of STEVAL-ISA090V1 - BOARD DEMONSTRATION L4973

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