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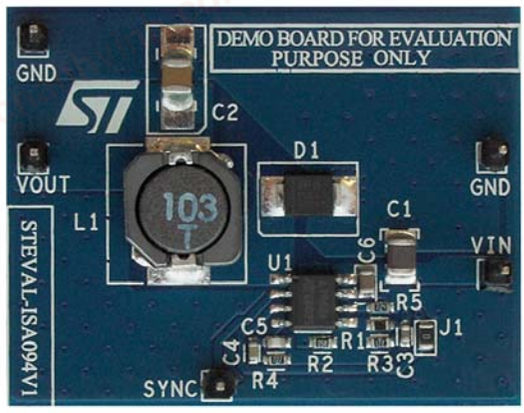
# STEVAL-ISA094V1

## 3 A step-down switching power supply demonstration board based on the L7981 (HSOP8)

**Data brief**

## Features

- 3 A DC output current
- 4.5 V to 28 V input voltage
- Output voltage adjustable from 0.6 V
- 250 kHz switching frequency, programmable up to 1 MHz
- Internal soft-start and enable
- Low dropout operation: 100% duty cycle
- Voltage feed-forward
- Zero load current operation
- Overcurrent and thermal protection
- RoHS compliant




**STEVAL-ISA094V1**

## Description

The STEVAL-ISA094V1 is a step-down switching power supply based on STMicroelectronics' L7981 switching regulator in an HSOP8 package.

The L7981 features an embedded power MOSFET and is capable of delivering up to 3 A of current to the load, depending on the application conditions.

The input voltage can range from 4.5 V to 28 V, while the output voltage can be set from 0.6 V to $V_{IN}$.

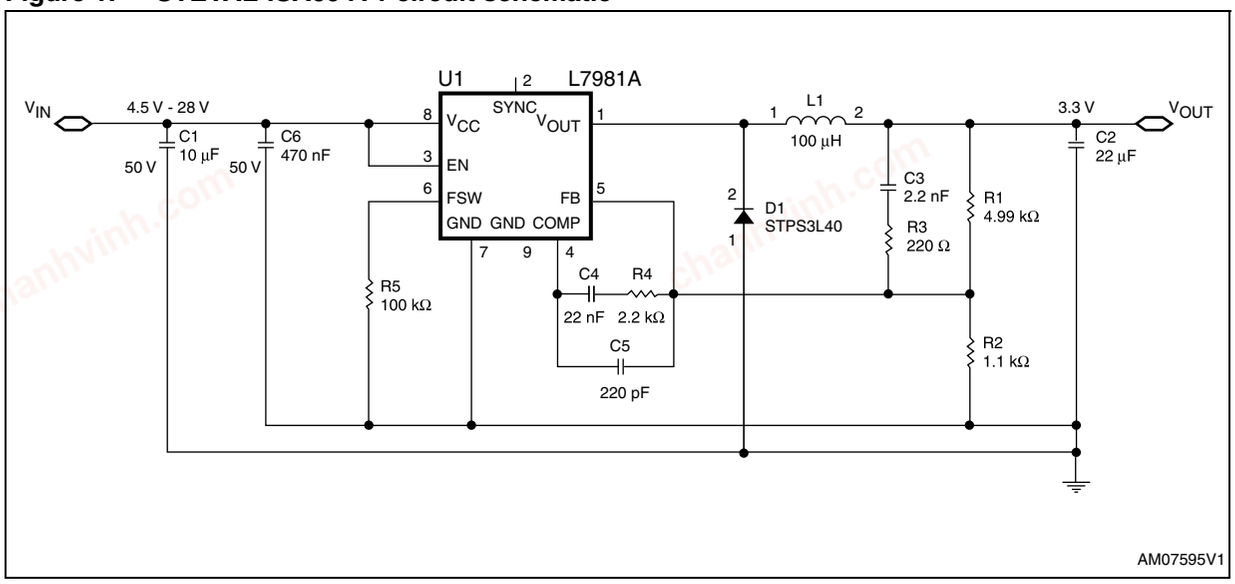
Requiring a minimum number of external components, the device includes an internal 250 kHz switching frequency oscillator that can be externally adjusted up to 1 MHz.

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# 1 Schematic diagram

**Figure 1. STEVAL-ISA094V1 circuit schematic**



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# 2 Revision history

Table 1. Document revision history

| Date | Revision | Changes |
|---|---|---|
| 23-Dec-2011 | 1 | Initial release. |

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