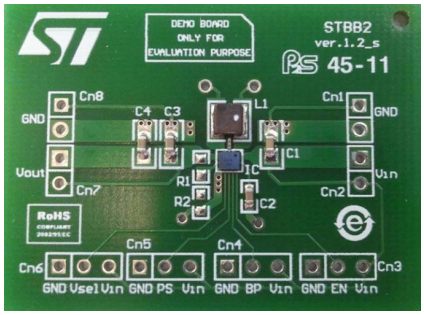
STEVAL-ISA109V2

800 mA, 3 MHz, adjustable output high efficiency dual-mode buck-boost DC-DC converter based on the STBB2

Data brief



Features

- Input voltage: from 2.3 V to 5.5 V
- Output voltage: 3.3 V
- Output current: 800 mA
- Operating frequency: 3 MHz
- RoHS compliant

Description

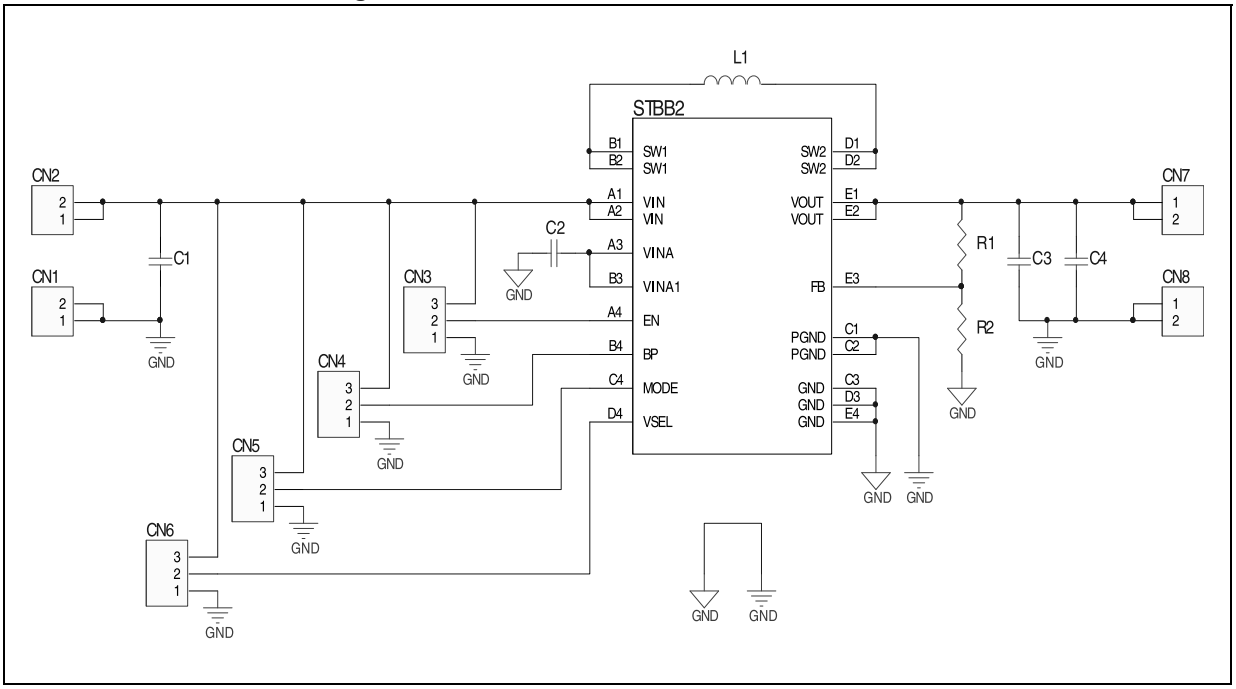
The STEVAL-ISA109V2 is designed to aid in the evaluation of the STBB2, a high efficiency buck-boost DC-DC converter capable of providing regulated output voltages in the range of 1.2 V to 5.5 V with an input voltage between 2.3 V and 5.5 V.

The board comes with the adjustable version of the STBB2 pre-mounted, with the output voltage set to 3.3 V. For this version, the V_{SEL} pin must be connected to V_{IN}.

The board can also demonstrate the performance of the fixed version of the STBB2, by replacing R_1 with a 0 Ω resistor and disconnecting R_2.

1 Schematic diagram

Figure 1. STEVAL-ISA109V2 circuit schematic



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
16-Apr-2013	1	Initial release.