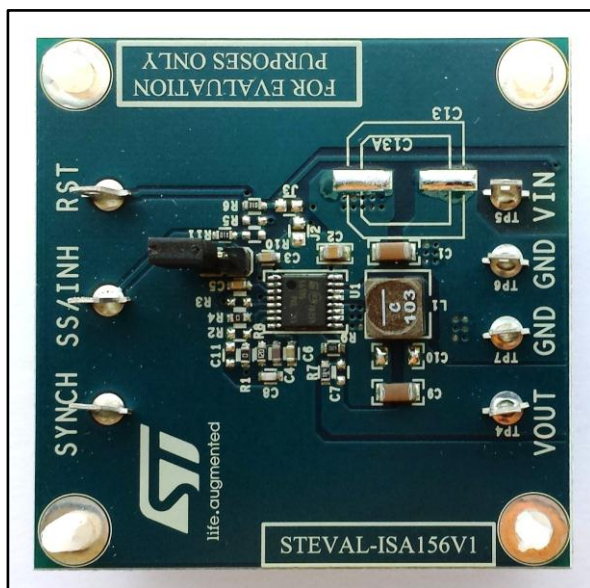


38 V, 2 A synchronous step-down switching regulator evaluation board based on the L6986

Data brief



Features

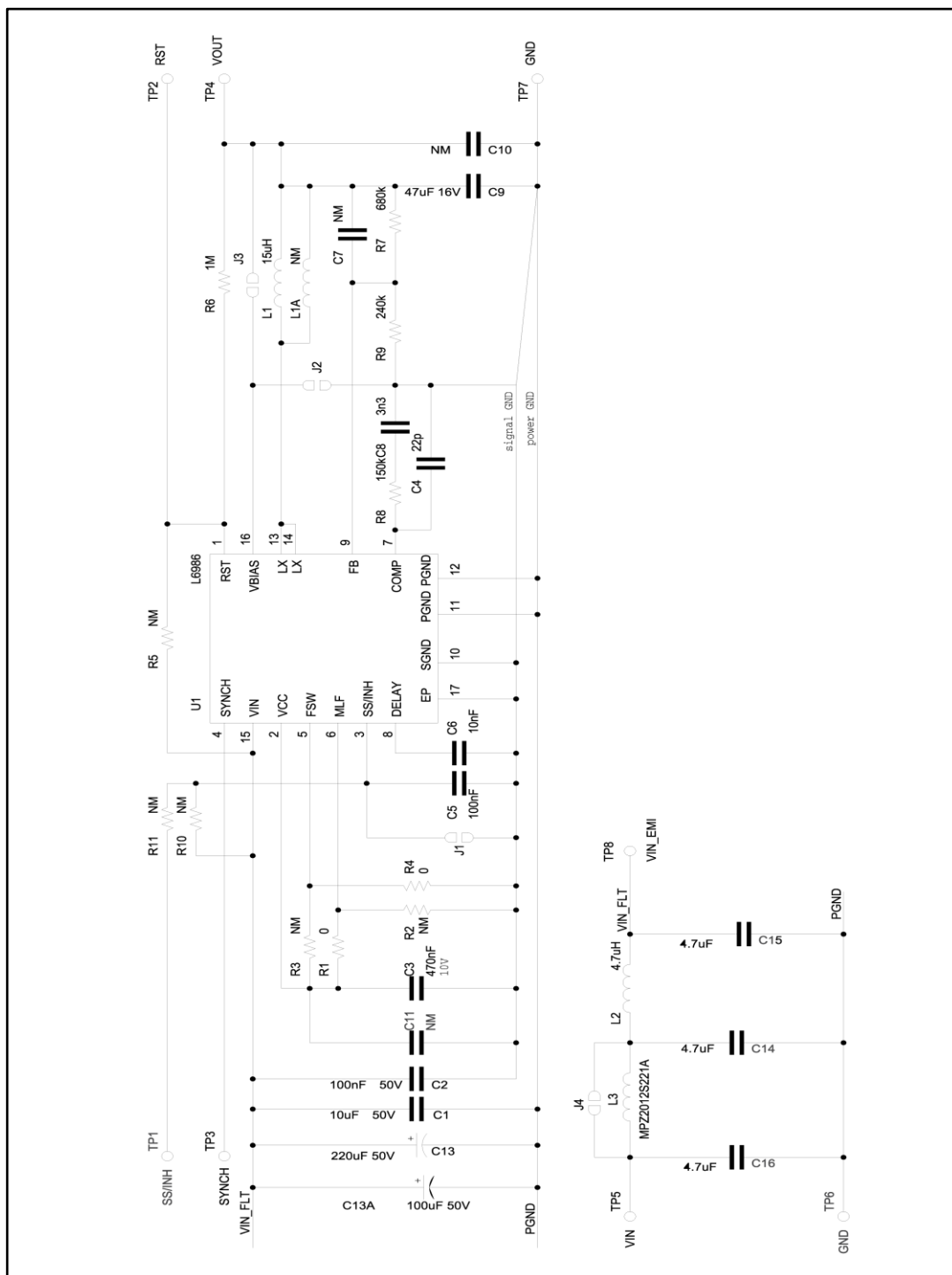
- 4 V to 38 V operating input voltage
- Low consumption mode or low noise mode

- 30 μ A I_Q at light load (LCM $V_{OUT} = 3.3$ V)
- 5 μ A $I_{Q-SHTDWN}$
- Adjustable f_{SW} (250 kHz - 2 MHz)
- Output voltage adjustable from 0.85 V to V_{IN}
- Embedded output voltage supervisor
- Synchronization
- Adjustable soft-start time
- Internal current limiting
- Overvoltage protection
- Output voltage sequencing
- Peak current mode architecture
- $R_{DS(on) HS} = 180$ m Ω , $R_{DS(on) LS} = 110$ m Ω
- Thermal shutdown

Description

The STEVAL-ISA156V1 is a product evaluation board based on ST's L6986, a 38 V, 2 A synchronous step-down switching regulator with 30 μ A quiescent current. It can be used for 12 V and 24 V buses, programmable logic controllers (PLCs), decentralized intelligent nodes & sensors and low noise applications (LNM).

Figure 1: STEVAL-ISA156V1 circuit schematic



2 Revision history

Table 1: Document revision history

Date	Revision	Changes
18-Jul-2014	1	Initial release

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