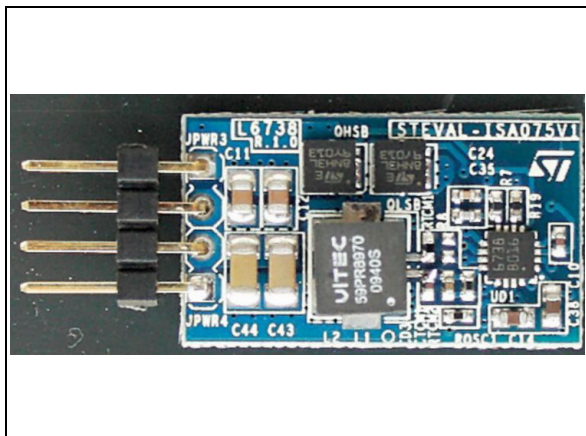


Compact high efficiency DC-DC converter solution based on the L6738

Data brief



Description

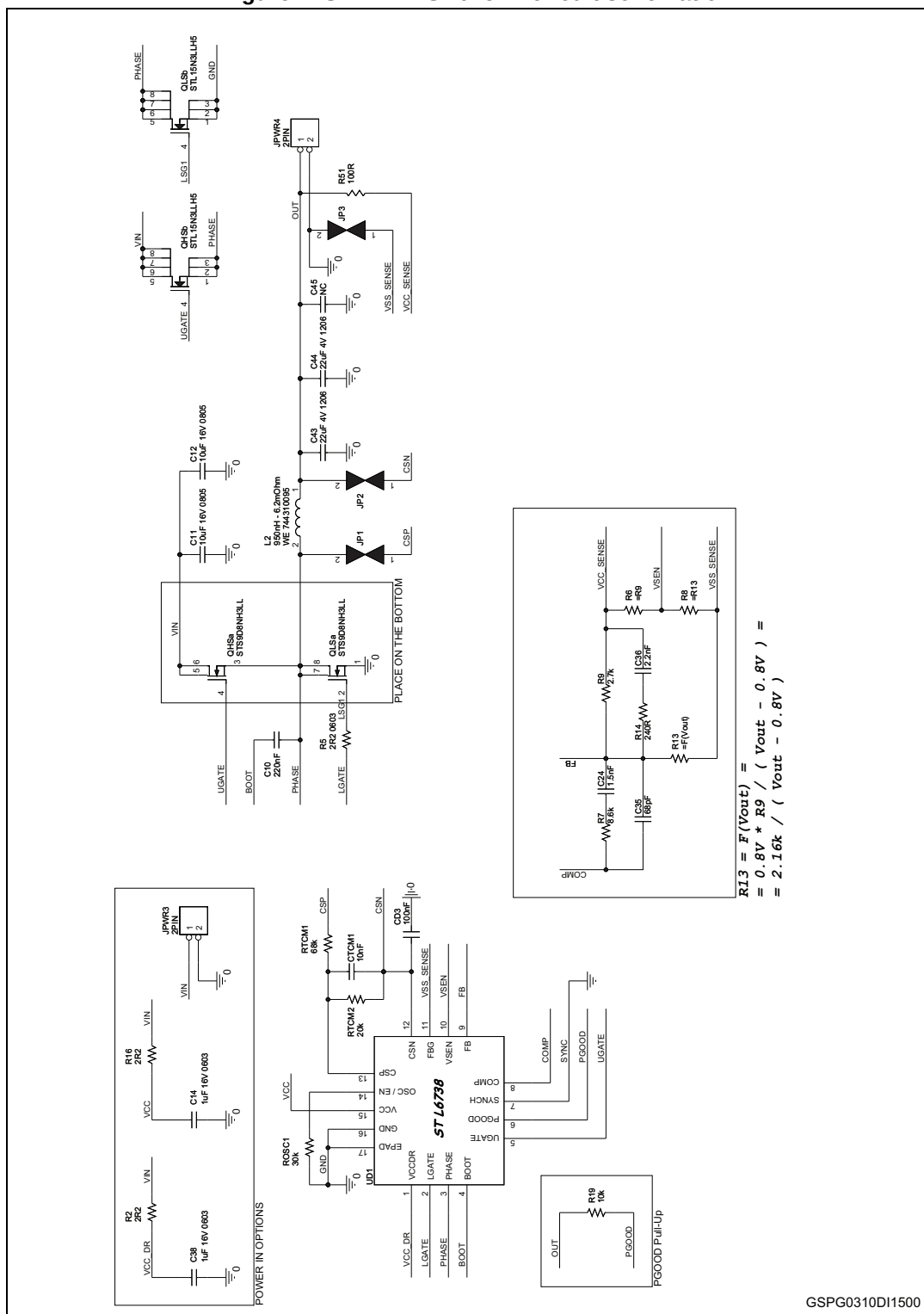
The STEVAL-ISA075V1 product evaluation board is a compact solution designed for testing the performance of the L6738.

The L6738 is a single-phase step-down controller with integrated high-current drivers that provides complete control logic and protection for DC-DC converters.

Features

- Compact size (25.4 mm x 14.6 mm)
- 4 layers
- $V_{IN} < 6\text{ V}$
- V_{OUT} up to 3.5 V
- I_{OUT} up to 8 A (depending on V_{OUT})
- $F_{SW} = 600\text{ KHz}$
- Dual power MOS option (2 x STL 3x3 or 1 x Dual SO8)
- $C_{IN} = 2 \times \text{GRM21BR60J226ME39}$ (22 μF , 6.3 V, 0805)
- $C_{OUT} = 2 \text{ or } 3 \times \text{GRM31CC70G226KE01}$ (22 μF , 4 V, 1206)
- Dual choke options (WE 744310095 or VITEC 59Px8970)
- RoHS compliant

Figure 1. STEVAL-ISA075V1 circuit schematic



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
15-Jan-2014	1	Initial release.

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