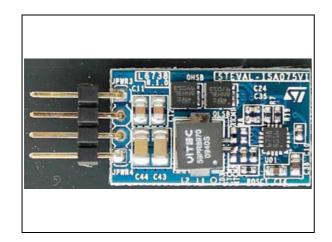


### STEVAL-ISA075V1

# 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<sub>IN</sub> < 6 V</li>
- V<sub>OUT</sub> up to 3.5 V
- I<sub>OUT</sub> up to 8 A (depending on V<sub>OUT</sub>)
- F<sub>SW</sub> = 600 KHz
- Dual power MOS option (2 x STL 3x3 or 1 x Dual SO8)
- C<sub>IN</sub>= 2 x GRM21BR60J226ME39 (22 uF,6.3 V, 0805)
- C<sub>OUT</sub> = 2 or 3 x GRM31CC70G226KE01 (22 uF, 4 V, 1206)
- Dual choke options (WE 744310095 or VITEC 59Px8970)
- RoHS compliant

Schematic diagram STEVAL-ISA075V1

## 1 Schematic diagram

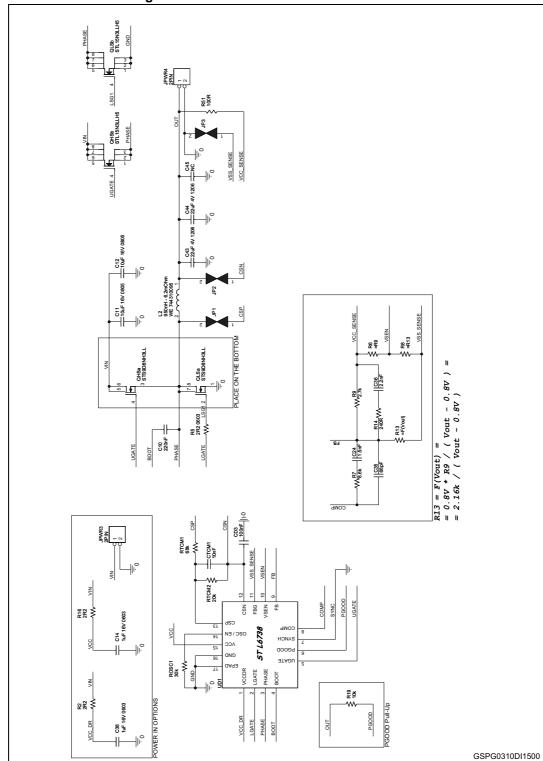


Figure 1. STEVAL-ISA075V1 circuit schematic

STEVAL-ISA075V1 Revision history

## 2 Revision history

**Table 1. Document revision history** 

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

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