



STEVAL-ISA025V1

Step-down DC-DC converter at 3.3 V_{out}/20 A and switching frequency of 400 kHz evaluation board based on L6730

Data Brief

Features

- Input voltage, V_{in} : 4.5 to 14 V
- Output voltage: 3.3 V
- Selectable switching frequency
- Overvoltage protection
- Thermal shut-down

Description

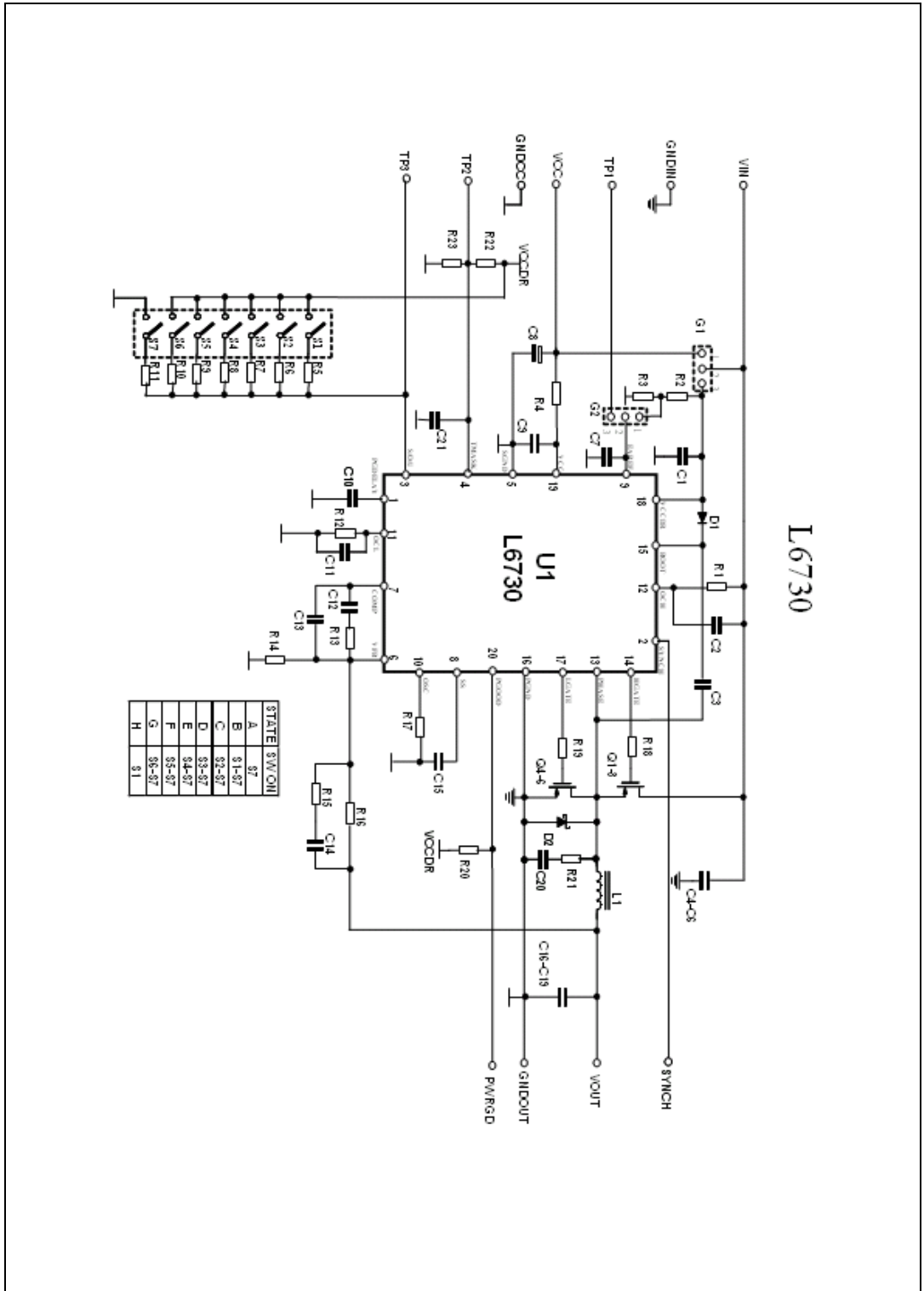
This 4-layer PCB demoboard implements a step-down DC/DC converter and shows the operation of the L6730 device in a general-purpose application. The input voltage can range from 4.5 V to 14 V and the output voltage is 3.3 V. The module can deliver an output current in excess of 30 A. The switching frequency is set at 400 kHz (controller free-running FSW), but it can be increased up to 1 MHz. A 7-position dip-switch selects the UVLO threshold (5 V or 12 V bus), the OVP intervention mode and the sink-mode current capability.



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1 Board schematic

Figure 1. Scheme



2 Revision history

Table 1. Document revision history

| Date | Revision | Changes |
|-------------|----------|------------------|
| 27-Aug-2007 | 1 | Initial release. |

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