

LNB power supply demonstration board based on the LNBH23

Data brief

Features

- Integrated DC-DC converter
- Single input supply voltage: from 8 V to 15 V
- I²C™ bus interface for the IC control and diagnostics
- Integrated 22 kHz tone generator, factory-trimmed in accordance with widely accepted standards
- User-friendly graphical user interface ("LNBxxx control suite") software included in the kit
- Implements the LNBH23 in a QFN32 package

Description

The STEVAL-CBL005V1 LNB power supply demonstration board implements a DC-DC converter based on the LNBH23 device. The LNBH23 is an LNB supply and control IC with step-up and an I²C interface. It is used to power an LNB on a dish antenna for reception of satellite TV signals.

The LNBH23 is an integrated solution for supplying/interfaces satellite LNB modules in accordance with international standards.

This solution is simple, inexpensive, shows very good performance and has a low external component count.

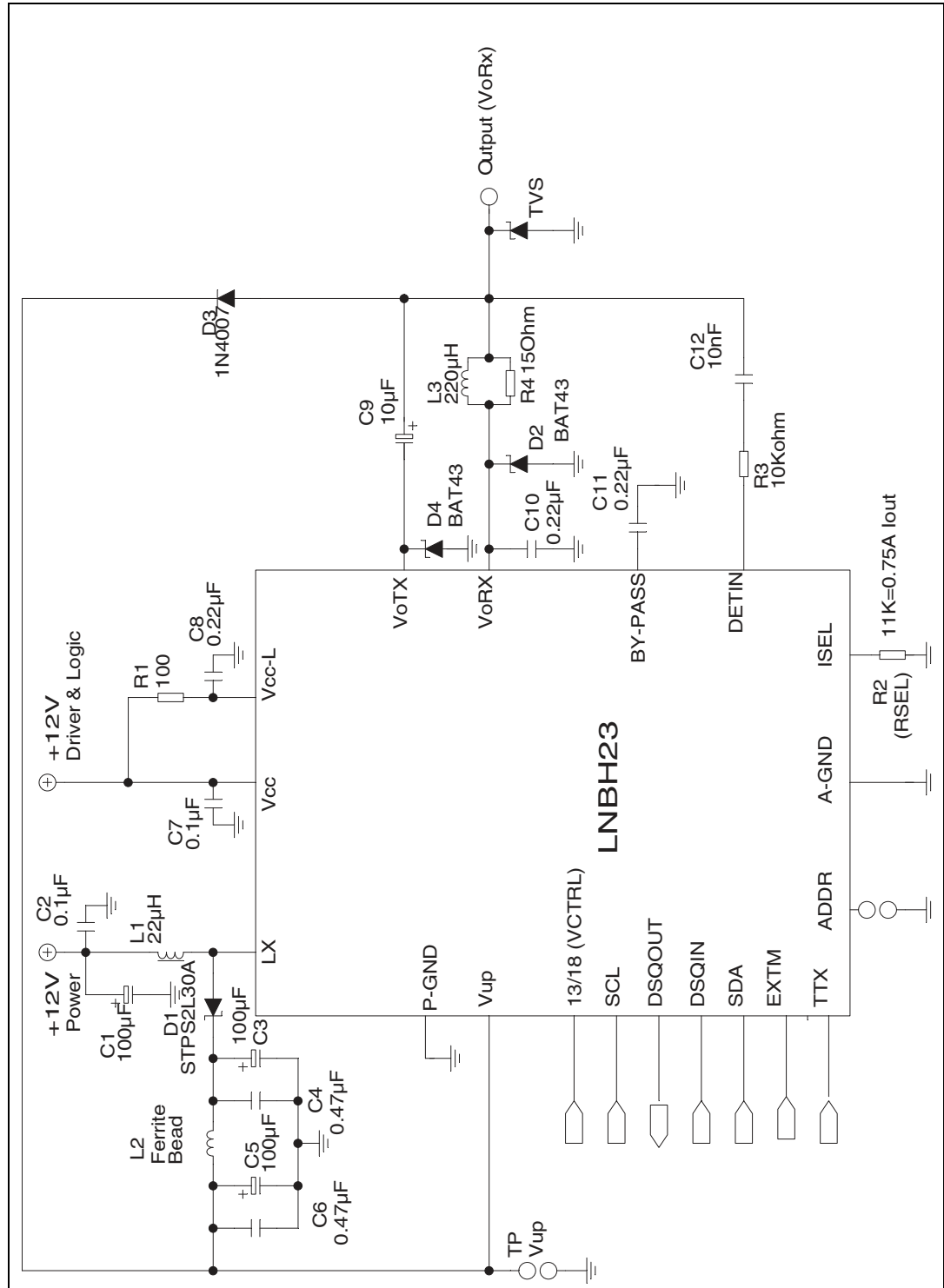
The LNBH23 demonstration board includes an I²C™ bus interface and an internal 22 kHz tone generator that is factory-trimmed to comply with widely accepted standards, and can be controlled through the DSQIN pin (TTL compatible). This allows immediate DiSEqC™ data encoding.

Due to the fully integrated step-up DC-DC converter, it works with a single input voltage supply source ranging from 8 V to 15 V.



1 Circuit schematic

Figure 1. Schematic diagram



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
06-Apr-2009	1	Initial release.

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