



STEVAL-ILD002V1

20 W dimmable CFL ballast solution based on the L6574

Data Brief

Features

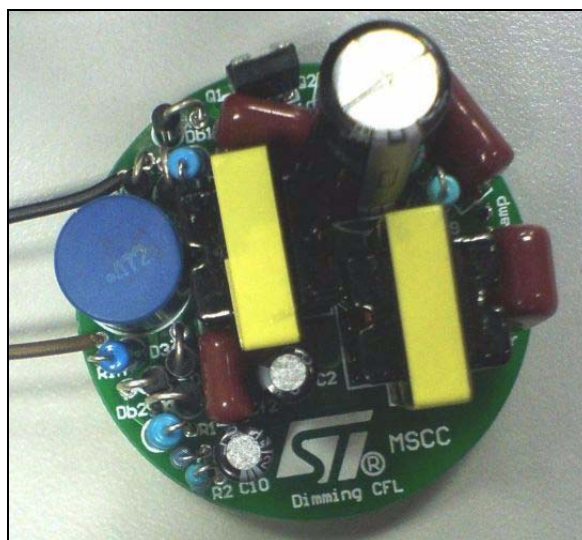
- Lamp base: E27
- Wattage: 20 W (3U T3 lamp)
- Input line: 180 VAC - 264 VAC
- Lumen output: 1300 lm
- Dimming range: 20% - 100%
- Energy label: Class A
- Efficiency > 80% at wide range input

Description

This demonstration board represents a 20 W dimmable CFL (compact fluorescent lamp) ballast solution which can completely replace incandescent lamps in dimming systems. The controlled dimming range is from below 20% up to 100% of full light output without changing the triac dimmer.

Compared to formal CFL designs, this dimmable solution provides not only energy savings, but also higher reliability and significantly longer operating life.

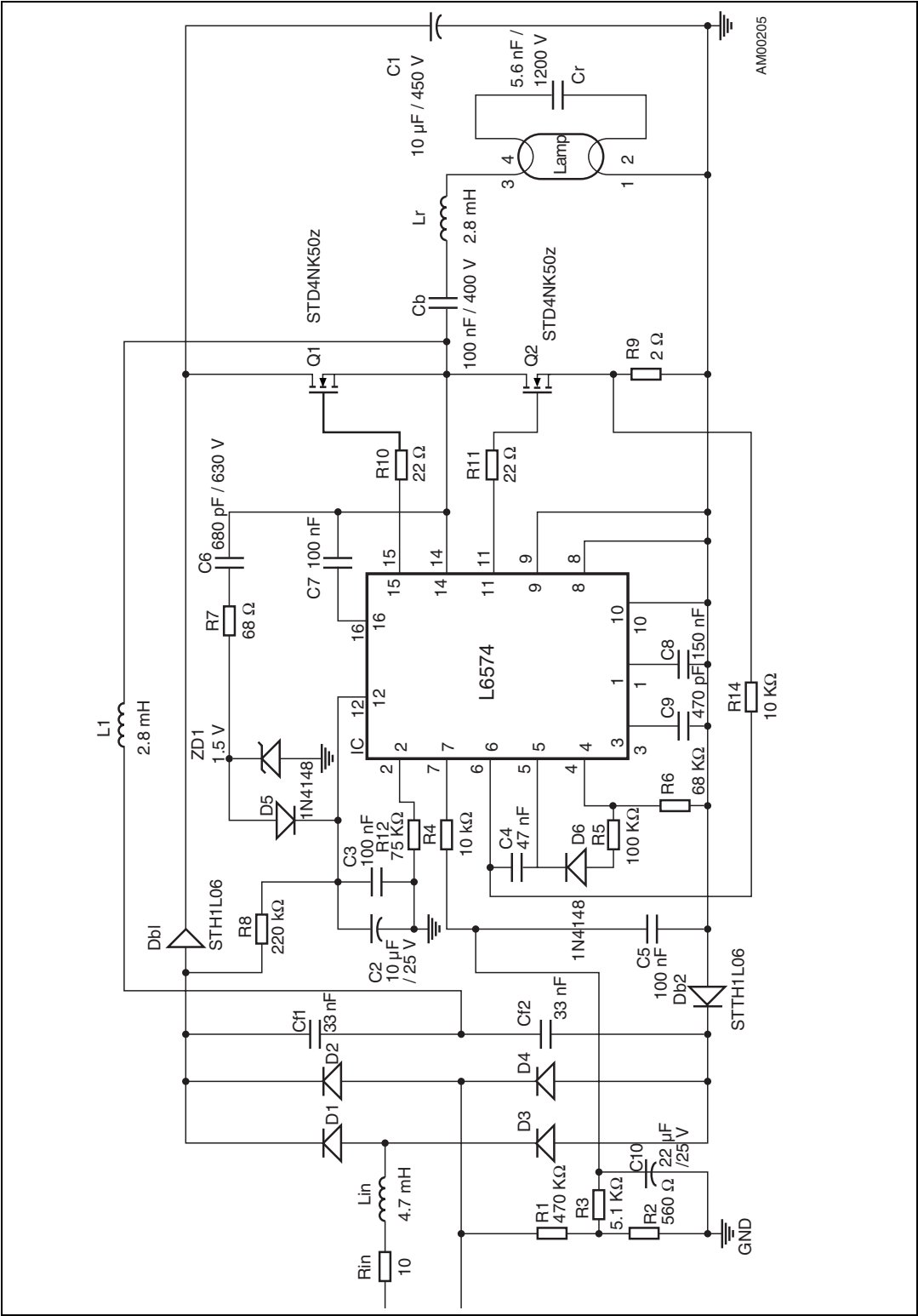
The solution is based on the high performance ballast driver L6574, two STD4NK50Z power MOSFETs, a Zener-protected SuperMESH™ power MOSFET and two STTH1L06 Turbo 2 ultrafast high voltage rectifiers.



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1 Schematic diagram

Figure 1. Circuit schematic



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
10-June-2008	1	Initial release.

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