

5 V / 0.36 A buck converter using VIPerPlus – VIPer11



Features

- Universal AC main input voltage range: 85 - 265 V_{AC}
- Output range: 5 V/0.36 A
- Rated output power: 1.8 W
- Input power in standby at 230 V_{AC}: less than 18 mW
- Active mode efficiency: > 65%
- EMI: according to EN55022-Class-B
- RoHS compliant

Description

The STEVAL-ISA195V1 evaluation board implements a wide range mains buck converter (5 V/0.36 A) developed for general purpose applications.

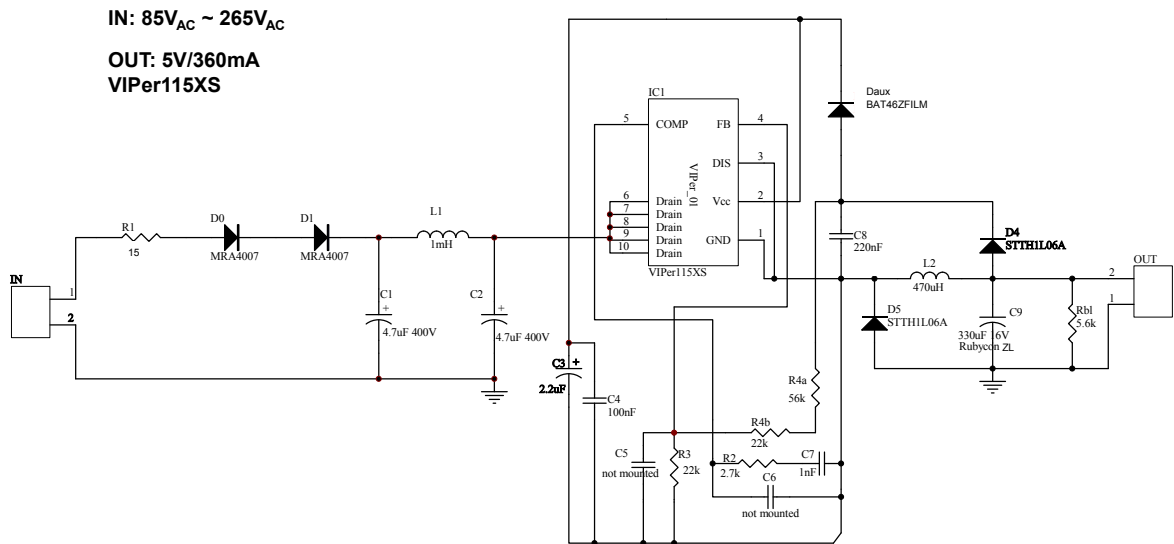
The design is built around the VIPer11 off-line high voltage converter from the VIPerPlus family, which intelligently integrates an 800 V rugged power MOSFET with a current-mode control PWM.

The main characteristics of the evaluation board are its single layer, small size and minimal BoM, high efficiency and low standby consumption.

| Product summary | |
|---|---|
| 5 V / 0.36 A buck converter using VIPerPlus - VIPer11 | STEVAL-ISA195V1 |
| energy saving off-line high voltage converter | VIPER11 |
| Applications | Home and Professional Appliances Power supplies and Converters |

1 Schematic diagrams

Figure 1. STEVAL-ISA195V1 circuit schematic



Revision history

Table 1. Document revision history

| Date | Version | Changes |
|-------------|---------|---|
| 09-May-2018 | 1 | Initial release. |
| 11-Dec-2020 | 2 | Updated cover page image and product summary table. |

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