Storage Choke, open version, without socket

See below:
**Approvals and Compliances**

## Description

- Storage choke
- Wire leads
- Reduced magnetic reversal
- Constant inductance at high alternating field modulation and large DC magnetization
- Open version without socket and chassis

## Applications

- Storage of energy in switched power supplies
- Switch-mode
- Chopper amplifiers
- DC drives and stepper motor controls

## Weblinks

pdf data sheet, html datasheet, General Product Information, Approvals, Distributor-Stock-Check, Detailed request for product, SPICE Library

## Technical Data

| | |
|---|---|
| | to 600 VDC |
| Rated Current | 0.5 - 16 A @ Ta 70 °C |
| Rated inductance | 0.01 - 1 mH, Tol. ±15% |
| Power Operating Frequency | up to 1 MHz |
| Terminal Type | Wire leads |
| Weight | 4 - 104 g |

| | |
|---|---|
| Isolation Voltage | 2 kV eff., winding to ambient |
| Climatic Category | 40/125/21 acc. to IEC 60068-1 |
| Allowable Operation Temp. | -40 °C to 125 °C |

## Approvals and Compliances

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in Details about Approvals

SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 13485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.

## Application standards

Application standards where the product can be used

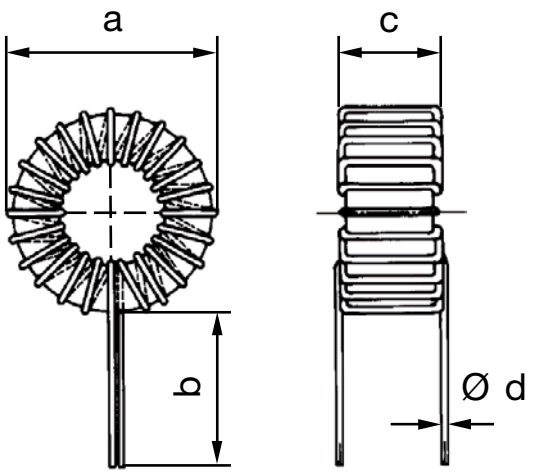
| Organization | Design | Standard | Description |
|---|---|---|---|
| IEC | Designed for applications acc. | IEC/UL 62368-1 | IEC 62368-1 includes the basic requirements for safety of audio, video, information technology and office equipment. |

## Compliances

The product complies with following Guide Lines

| Identification | Details | Initiator | Description |
|---|---|---|---|
| CE | CE declaration of conformity | SCHURTER AG | The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008. |
| RoHS | RoHS | SCHURTER AG | Directive RoHS 2011/65/EU, Amendment (EU) 2015/863 |
| | China RoHS | SCHURTER AG | The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS. |
| REACH | REACH | SCHURTER AG | On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force. |

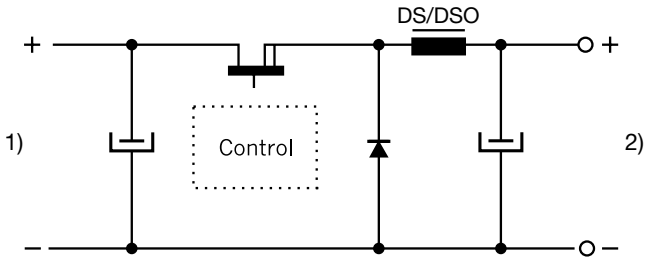
## Dimension [mm]




Dimensions: see table of variants

## Diagrams

Switch-mode




1) Input
2) DC output regulated

## All Variants

| $I_n$ [A] | $L_n$ [mH] | $R_{cu}$ [mΩ] | $f_{RES}$ [MHz] | Inductance drop max [%] | A [mm] | B [mm] | C [mm] | D [mm] | Weight [g] | Packing unit [pcs.] | Order Number |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.5 | 0.8 | 800 | 0.8 | 15 | 15 mm | 20 mm | 7 mm | 0.3 mm | 4 g | 200 | DS01-175-0001 |
| 0.63 | 0.5 | 550 | 2.5 | 15 | 15 mm | 20 mm | 7 mm | 0.3 mm | 4 g | 200 | DS01-175-0002 |
| 0.63 | 1 | 750 | 1.7 | 15 | 19 mm | 20 mm | 8.5 mm | 0.3 mm | 7 g | 300 | DS01-20-0001 |
| 1 | 0.2 | 200 | 3.5 | 15 | 15 mm | 20 mm | 7 mm | 0.4 mm | 4 g | 200 | DS01-175-0003 |
| 1.4 | 0.1 | 100 | 4 | 20 | 15 mm | 20 mm | 7 mm | 0.5 mm | 4 g | 200 | DS01-175-0004 |
| 1.4 | 0.2 | 175 | 4.7 | 15 | 19 mm | 20 mm | 8.5 mm | 0.4 mm | 8 g | 200 | DS01-20-0002 |
| 1.4 | 0.5 | 200 | 1.5 | 20 | 23 mm | 25 mm | 9 mm | 0.5 mm | 13 g | 200 | DS01-25-0001 |
| 1.6 | 0.5 | 200 | 1.7 | 15 | 26 mm | 25 mm | 11 mm | 0.5 mm | 19 g | 100 | DS01-30-0001 |
| 2 | 0.2 | 120 | 3.3 | 20 | 23 mm | 25 mm | 9 mm | 0.6 mm | 12 g | 200 | DS01-25-0002 |
| 2 | 0.3 | 140 | 2.5 | 15 | 26 mm | 25 mm | 11 mm | 0.5 mm | 17 g | 100 | DS01-30-0002 |
| 2 | 1 | 190 | 1.2 | 20 | 39 mm | 40 mm | 14 mm | 0.7 mm | 55 g | 35 | DS01-40-0001 |
| 3 | 0.035 | 20 | 5 | 20 | 15 mm | 20 mm | 7 mm | 0.8 mm | 4 g | 200 | DS01-175-0005 |
| 3.15 | 0.04 | 33 | 13 | 15 | 19 mm | 20 mm | 8.5 mm | 0.7 mm | 8 g | 200 | DS01-20-0003 |
| 3.15 | 0.1 | 50 | 5.7 | 20 | 23 mm | 25 mm | 9 mm | 0.8 mm | 13 g | 200 | DS01-25-0003 |
| 3.15 | 0.15 | 70 | 3.5 | 15 | 26 mm | 25 mm | 11 mm | 0.7 mm | 19 g | 100 | DS01-30-0003 |
| 3.15 | 0.5 | 90 | 1.5 | 20 | 39 mm | 40 mm | 14 mm | 0.8 mm | 55 g | 35 | DS01-40-0002 |
| 3.15 | 1 | 180 | 0.8 | 20 | 43 mm | 40 mm | 18 mm | 0.8 mm | 104 g | 50 | DS01-48-0001 |
| 4 | 0.1 | 40 | 5 | 20 | 26 mm | 25 mm | 11 mm | 0.8 mm | 20 g | 100 | DS01-30-0004 |
| 4 | 0.2 | 55 | 3 | 20 | 39 mm | 40 mm | 14 mm | 0.8 mm | 52 g | 50 | DS01-40-0003 |
| 4 | 0.5 | 90 | 1.5 | 20 | 43 mm | 40 mm | 18 mm | 0.9 mm | 104 g | 20 | DS01-48-0002 |
| 5 | 0.3 | 75 | 1.5 | 20 | 43 mm | 40 mm | 18 mm | 0.8 mm | 104 g | 20 | DS01-48-0003 |

| $I_n$ [A] | $L_n$ [mH] | $R_{cu}$ [mΩ] | $f_{RES}$ [MHz] | Inductance drop max [%] | A [mm] | B [mm] | C [mm] | D [mm] | Weight [g] | Packing unit [pcs.] | Order Number |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 0.1 | 25 | 5 | 20 | 39 mm | 40 mm | 14 mm | 1 mm | 53 g | 50 | DS01-40-0004 |
| 6.3 | 0.01 | 8 | 33 | 15 | 19 mm | 20 mm | 8.5 mm | 0.9 mm | 9 g | 300 | DS01-20-0004 |
| 7 | 0.02 | 10 | 6.5 | 20 | 23 mm | 25 mm | 9 mm | 1.3 mm | 14 g | 150 | DS01-25-0004 |
| 9 | 0.1 | 20 | 4 | 20 | 43 mm | 40 mm | 18 mm | 1.2 mm | 104 g | 250 | DS01-48-0004 |
| 15 | 0.035 | 7 | 5 | 20 | 43 mm | 40 mm | 18 mm | 1.8 mm | 104 g | 250 | DS01-48-0005 |
| 16 | 0.16 | 12 | 2.5 | 20 | 44 mm | 40 mm | 34 mm | 2 mm | 104 g | 100 | DS01-48-0006 |

$R_{cu}$ bei $T_u$ 20°C
Inductance drop with $I_n$
Derating at $T_u$ >70°C: $I = I_{nx} ((125-T_u)/55)^{0.5}$

Most Popular.

Availability for all products can be searched real-time:https://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER

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The specifications, descriptions and illustrations indicated in this document are based on current information. All content is subject to modifications and amendments. Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability and test each product selected for their own applications.

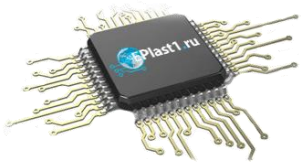
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.




**Как с нами связаться**

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