

Magnetically Compensated Choke, 1-phase, flat design



See below:

Approvals and Compliances

Description

- Current compensated choke
- 1-phase choke
- THT-terminals
- Inductor horizontally positioned in housing
- SMD version on request

Applications

- Attenuation of common mode interferences
- Designed for 230/400 VAC applications
- Chopper amplifiers
- DC drives and stepper motor controls
- Switching power supplies

Weblinks

[pdf data sheet](#), [html datasheet](#), [General Product Information](#), [Distributor-Stock-Check](#), [Detailed request for product](#), [SPICE Library](#)

Technical Data

| | | | |
|---------------------------|-----------------------------|---------------------------|--|
| Rated voltage | up to 440 VAC | Test Voltage | 1.8 kV, 50 Hz, 1 min, winding to winding |
| Rated Current | 0.4 - 6.3 A @ Ta 40 °C | Isolation Voltage | 2 kV eff., winding to ambient |
| Rated inductance | 0.6 - 40 mH, Tol. -30% +50% | Climatic Category | 25/100/21 acc. to IEC 60068-1 |
| Power Operating Frequency | 50 - 400 Hz | Allowable Operation Temp. | -25 °C to 100 °C |
| Terminal Type | THT | | |
| Weight | 5 - 16 g | | |
| Material: Housing | UL 94V-0 | | |
| Sealing Compound | UL 94V-0 | | |

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.

Approvals

The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products.

Approval Reference Type: DFKF2

| Approval Logo | Certificates | Certification Body | Description |
|---------------|------------------------------|--------------------|------------------------|
| | UL Approvals | UL | UL File Number: E72928 |





Application standards

Application standards where the product can be used

| Organization | Design | Standard | Description |
|--------------|--------------------------------|--------------|---|
| | Designed for applications acc. | IEC/UL 60950 | IEC 60950-1 includes the basic requirements for the safety of information technology equipment. |

Compliances

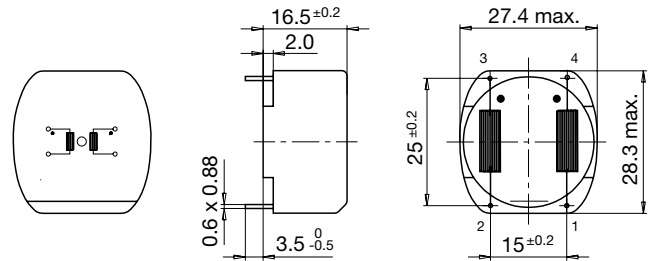
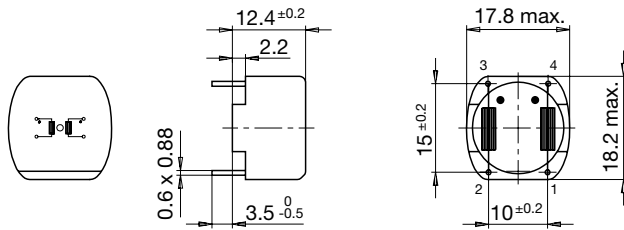
The product complies with following Guide Lines

| Identification | Details | Initiator | Description |
|--|--|-------------|---|
|  | 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 | 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 | 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]

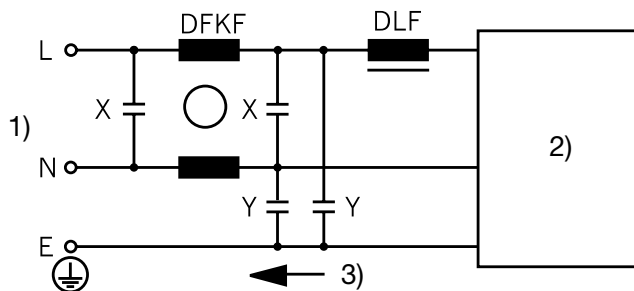
Case 04-2

Case 15-2



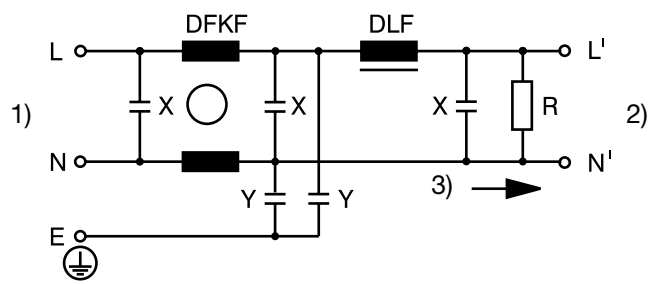
Diagrams

RFI suppression of switching power supply



- 1) Power line
- 2) Switching Power Supply
- 3) Interference current

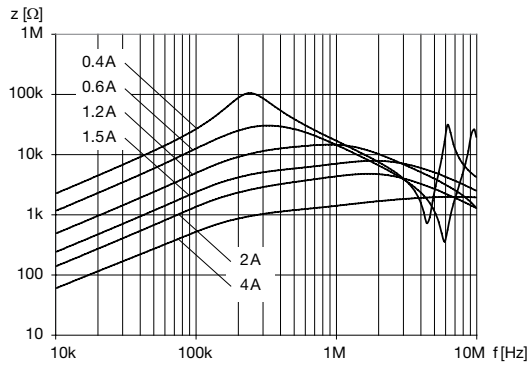
Noise suppression filter



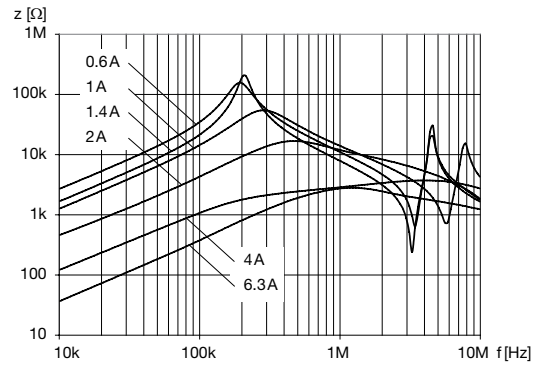
- 1) Power line
- 2) Equipment
- 3) Interference current

Impedance curves

DFKF-18-xxxx



DFKF-28-xxxx



All Variants

| I_n [A] | L_n [mH] | R_{cu} [m Ω] | Tripped Power Dissipation [W] | f_{RES} [MHz] | Weight [g] | Housings | Packing unit [pcs.] | Order Number |
|-----------|------------|------------------------|-------------------------------|-----------------|------------|----------|---------------------|--------------|
| 0.4 | 40 | 1200 | 0.4 | 0.11 | 5g | 04-2 | 48 | DFKF-18-0001 |
| 0.6 | 40 | 1000 | 0.7 | 0.2 | 16g | 15-2 | 40 | DFKF-28-0001 |
| 1 | 20 | 360 | 0.7 | 0.28 | 16g | 15-2 | 40 | DFKF-28-0002 |
| 1.2 | 6.8 | 200 | 0.6 | 0.45 | 5g | 04-2 | 45 | DFKF-18-0003 |
| 1.4 | 27 | 310 | - | - | 16g | 15-2 | 40 | DFKF-28-0003 |
| 1.5 | 3.3 | 110 | 0.5 | 1.2 | 5g | 04-2 | 45 | DFKF-18-0004 |
| 2 | 1.8 | 60 | - | - | 5g | 04-2 | 45 | DFKF-18-0005 |
| 2 | 6 | 100 | 0.8 | 0.3 | 16g | 15-2 | 40 | DFKF-28-0004 |
| 4 | 0.7 | 16 | 0.5 | 2.5 | 5g | 04-2 | 45 | DFKF-18-0006 |
| 4 | 1.5 | 28 | 0.9 | 1.3 | 16g | 15-2 | 40 | DFKF-28-0005 |
| 6.3 | 0.6 | 13 | 1 | 2.5 | 16g | 15-2 | 40 | DFKF-28-0006 |

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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[DFKF-18-0001](#) [DFKF-18-0003](#) [DFKF-18-0005](#) [DFKF-18-0002](#) [DFKF-28-0003](#)