

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](#), [Approvals](#), [Distributor-Stock-Check](#), [Detailed request for product](#), [SPICE Library](#)

Technical Data

Rated voltage	up to 440 VAC UL 250 VAC
Rated Current	0.4 - 6.3 A @ Ta 40 °C
Rated inductance	0.6 - 40 mH, Tol. -30% +50%
Power Operating Frequency	50 / 60 Hz
Terminal Type	THT
Weight	5 - 16 g
Material	UL 94V-0
Sealing Compound	UL 94V-0

Test Voltage	1.8 kV, 50 Hz, 1 min, winding to winding
Isolation Voltage	2 kV eff., winding to ambient
Climatic Category	25/100/21 acc. to IEC 60068-1
Allowable Operation Temp.	-25 °C to 100 °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.

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	UR File Number: E72928

Application standards

Application standards where the product can be used

Organization	Design	Standard	Description
	Suitable for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

Compliances

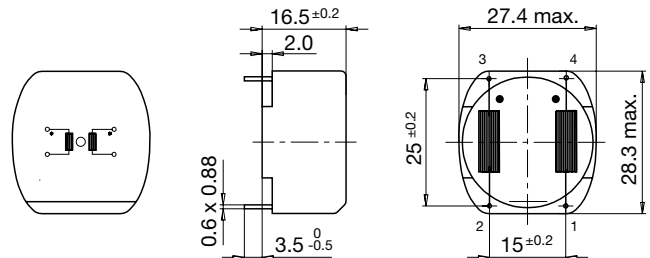
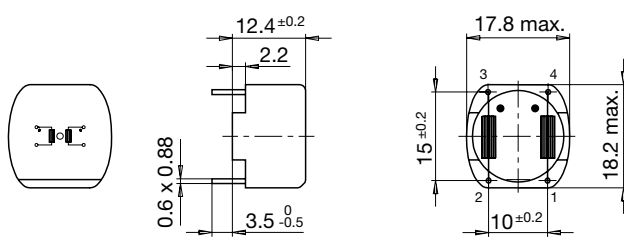
The product complies with following Guide Lines

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.
UKCA	UKCA declaration of conformity	SCHURTER AG	The UKCA marking declares that the product complies with the applicable requirements laid down in the British Amendment of Regulation (EC) 765/2008.
RoHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
China RoHS	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]

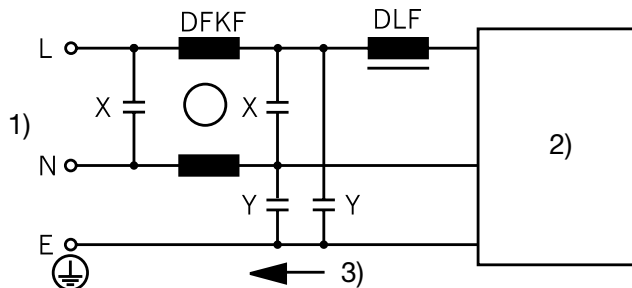
Case 04-2

Case 15-2



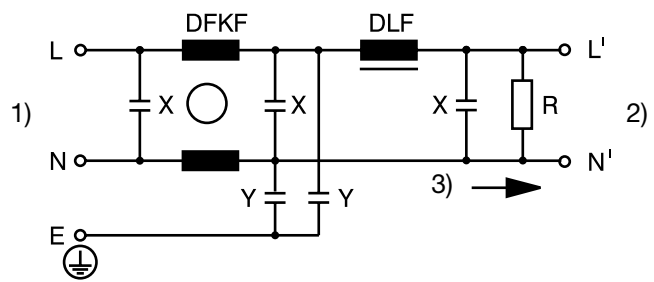
Diagrams

RFI suppression of switching power supply



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

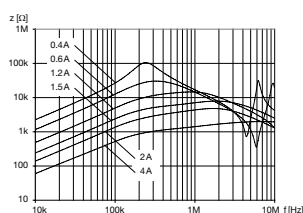
Noise suppression filter



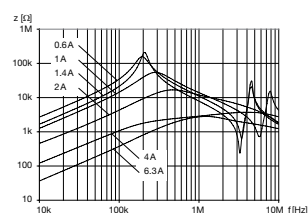
- 1) Power line
- 2) Equipment
- 3) Interference current

Impedance curves

DFKF-18-xxxx



DFKF-28-xxxx



Variants

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

Availability for all products can be searched real-time: <https://www.schurter.com/en/info-center/support-tools/stock-check-distributors>