

Storage Choke, flat design



See below:

**Approvals and Compliances**

**Description**

- Storage choke
- THT-terminals
- Inductor horizontally positioned in housing
- Constant inductance at high alternating field modulation and large DC magnetization
- Reduced magnetic reversal
- SMD version on request

**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**

Rated voltage	up to 600VDC
Rated Current	0.45 - 4.5A @ Ta 70 °C
Rated inductance	0.011 - 3.7mH, Tol. ±15%
Power Operating Frequency	up to 1MHz
Terminal Type	THT
Weight	7 - 18g
Material	UL 94V-0
Sealing Compound	UL 94V-0

Isolation Voltage	2kV 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
	Suitable for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

**Compliances**

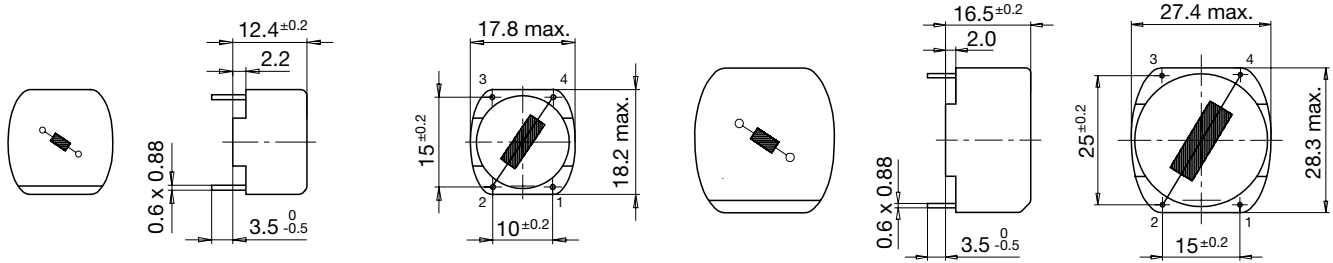
The product complies with following Guide Lines

Identification	Details	Initiator	Description
	<a href="#">CE declaration of conformity</a>	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.
	<a href="#">UKCA declaration of conformity</a>	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	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]**

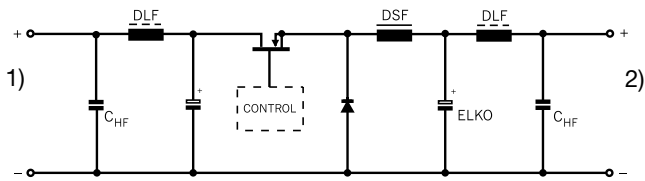
Case 04-1

Case 15-1



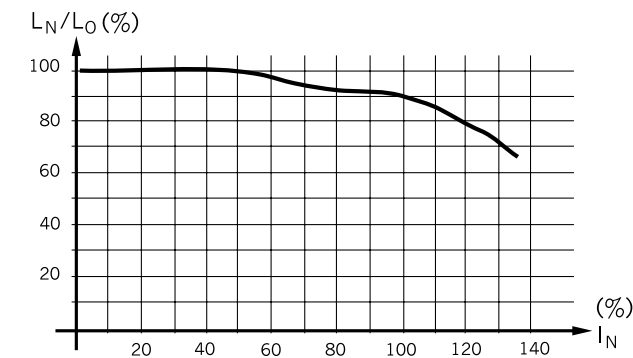
**Diagrams**

Application in DC-DC Converter



- 1) DC-Input unregulated
- 2) DC-Output regulated

**Derating Curves**



Inductance variation as function of the magnetizing current

**All Variants**

$I_n$ [A]	$L_n$ [mH]	$R_{cu}$ [mΩ]	$f_{RES}$ [MHz]	Weight [g]	Housing	Packing unit [pcs.]	Order Number
0.6	0.5	360	2.5	7g	04-1	45	DSF-18-0002
1.2	0.125	90	6.5	7g	04-1	45	DSF-18-0003
2	0.045	32	12	7g	04-1	45	DSF-18-0005
4	0.011	8	32	7g	04-1	45	DSF-18-0006
0.45	3.7	1900	0.6	18g	15-1	40	DSF-28-0001
1	0.75	360	1.8	18g	15-1	40	DSF-28-0003
1.4	0.38	160	-	18g	15-1	40	DSF-28-0004
1.8	0.23	125	3.5	18g	15-1	40	DSF-28-0005

$I_n$ [A]	$L_n$ [mH]	$R_{cu}$ [mΩ]	$f_{RES}$ [MHz]	Weight [g]	Housing	Packing unit [pcs.]	Order Number
3.15	0.075	45	7	18 g	15-1	40	DSF-28-0006
4.5	0.037	20	10	18 g	15-1	40	DSF-28-0007
4.5	0.018	10	18	18 g	15-1	40	DSF-28-0008

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