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

References

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

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

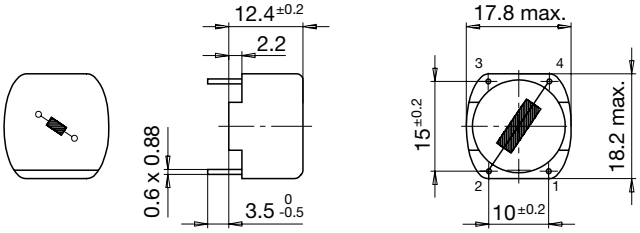
Compliances

The product complies with following Guide Lines

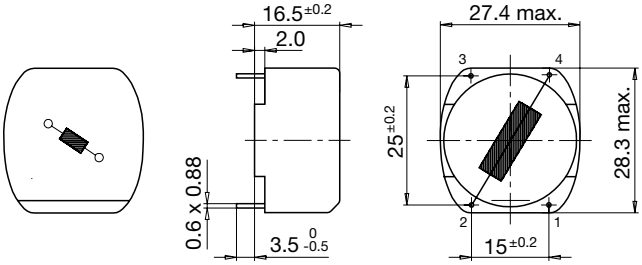
Identification	Details	Initiator	Description
CE	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
UKCA	UKCA declaration 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 04-1

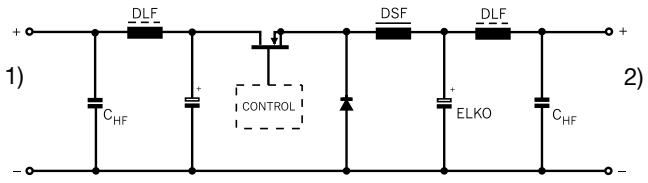


Case 15-1



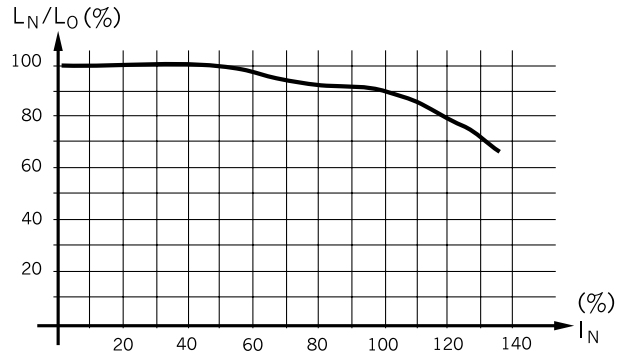
Diagrams

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	7 g	04-1	45	DSF-18-0002
1.2	0.125	90	6.5	7 g	04-1	45	DSF-18-0003
2	0.045	32	12	7 g	04-1	45	DSF-18-0005
4	0.011	8	32	7 g	04-1	45	DSF-18-0006
0.45	3.7	1900	0.6	18 g	15-1	40	DSF-28-0001
1	0.75	360	1.8	18 g	15-1	40	DSF-28-0003
1.4	0.38	160	-	18 g	15-1	40	DSF-28-0004
1.8	0.23	125	3.5	18 g	15-1	40	DSF-28-0005
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

Most Popular.

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

19.08.2024

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.