

Linear Choke, flat design



### Description

- Linear choke
- THT-terminals
- Inductor horizontally positioned in housing
- SMD version on request

### Standards

- EN 60938

### Applications

- Smoothing RFI suppression choke
- RFI suppression choke
- Chopper amplifiers
- DC drives and stepper motor controls
- Switching power supplies

### Weblinks

[pdf datasheet](#), [html-datasheet](#), [General Product Information](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [REACH](#), [Distributor-Stock-Check](#), [Detailed request for product](#)

### Technical Data

Rated voltage	up to 600 VDC
Rated Current	0.45 - 7 A @ Ta 70 °C
Rated inductance	0.015 - 3 mH, Tol. ±15%
Power Operating Frequency	up to 20kHz
Terminal Type	THT
Weight	7 - 18g
Material: Housing	UL 94V-0
Sealing Compound	UL 94V-0

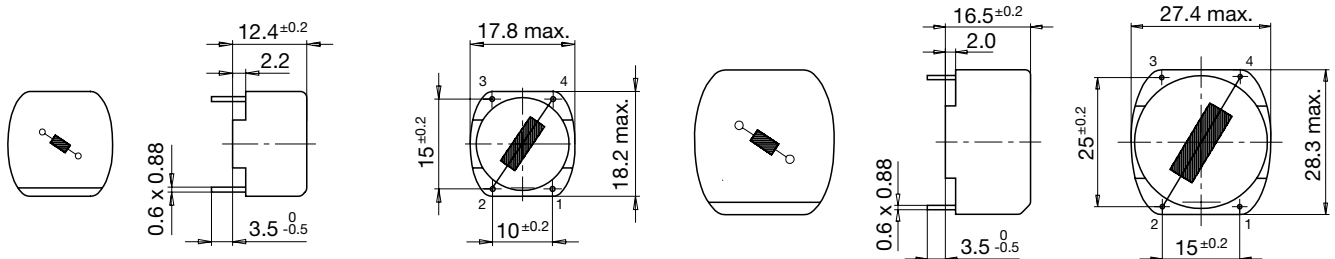
Isolation Voltage	2 kV eff., winding to ambient
Climatic Category	40/125/21 acc. to IEC 60068-1
Allowable Operation Temp.	-40 °C to 125 °C

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in [General Product Information](#)

### Dimension

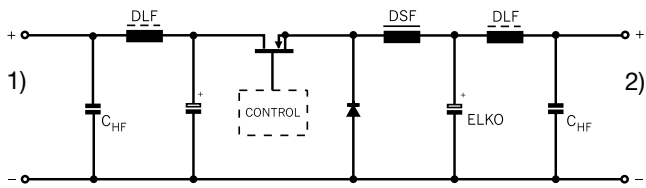
Case 04-1

Case 15-1



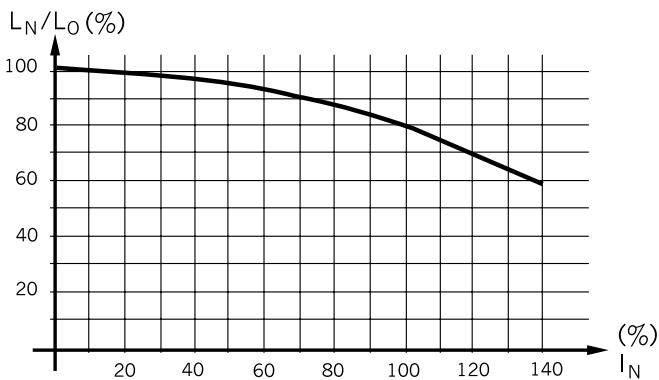
Diagrams

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]	Housings	Packing unit [pcs.]	Order Number
0.4	1.5	2150	0.5	7g	04-1	45	DLF-18-0001
0.6	0.65	690	1	7g	04-1	45	DLF-18-0002
1.2	0.17	190	2.8	7g	04-1	45	DLF-18-0003
1.5	0.11	150	8	7g	04-1	45	DLF-18-0004
2	0.06	79	12	7g	04-1	45	DLF-18-0005
4	0.015	17	28	7g	04-1	45	DLF-18-0006
0.45	3	3300	-	18g	15-1	40	DLF-28-0001
0.6	3	1700	0.3	18g	15-1	40	DLF-28-0002
1	1	550	0.8	18g	15-1	40	DLF-28-0003
1.5	0.5	270	1.2	18g	15-1	40	DLF-28-0004
1.8	0.3	180	3.3	18g	15-1	40	DLF-28-0005
3	0.1	70	7.5	18g	15-1	40	DLF-28-0006
4.5	0.05	30.5	-	18g	15-1	40	DLF-28-0007
7	0.02	13	20	18g	15-1	40	DLF-28-0008

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