Linear Choke, flat design

RoHS COMPLIANT

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, e-Shop, SCHURTER-Stock-Check, Distributor-Stock-Check, Detailed request for product

Technical Data

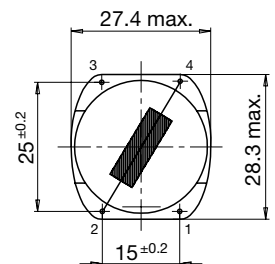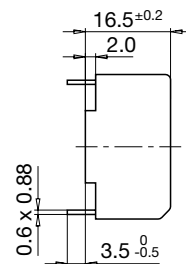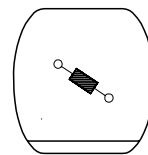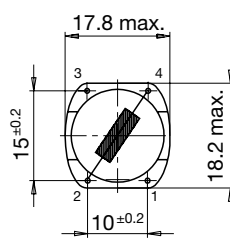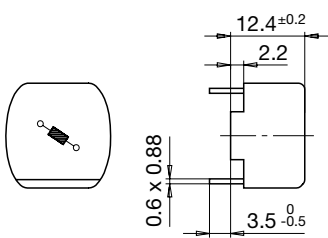|	
Rated voltage	up to 600 VDC
Rated Current	0.45 - 7 A @ Ta 70 °C
Rated inductance	0.015 - 3 mH, Tol. ±15%
Power Operating Frequency	up to 20 kHz
Terminal technic	THT
Weight	7 - 18 g
Material: Housing	UL 94V-0
Sealing Compound	UL 94V-0

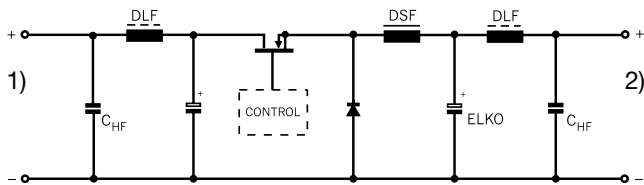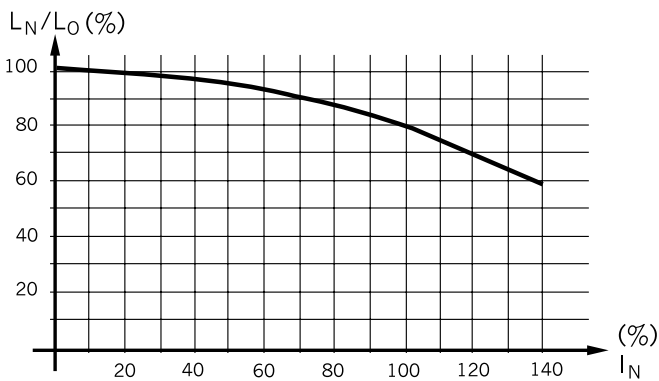|	
Isolation Voltage	2 kV eff., winding to ambient
Climatic Category	40/125/21 acc. to IEC 60068-1
Allowable Operation Temp.	-40 °C to 125 °C

Dimension

Case 04-1

Case 15-1

Diagrams

Application in DC-DC Converter

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

Derating Curves

L_N/L_O (%)

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

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