Storage Choke, open version, without socket

Approvals and Compliances

Description
- Storage choke
- Wire leads
- Reduced magnetic reversal
- Constant inductance at high alternating field modulation and large DC magnetization
- Open version without socket and chassis

Applications
- Storage of energy in switched power supplies
- Switch-mode
- Chopper amplifiers
- DC drives and stepper motor controls

Weblinks
pdf datasheet, html-datasheet, General Product Information, Distributor-Stock-Check, Detailed request for product, SPICE Library

Technical Data

	to 600 VDC
Rated Current	0.5 - 16 A @ Ta 70 °C
Rated inductance	0.01 - 1 mH, Tol. ±15%
Power Operating Frequency	up to 1 MHz
Terminal Type	Wire leads
Weight	4 - 104 g

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

Application standards

Application standards where the product can be used

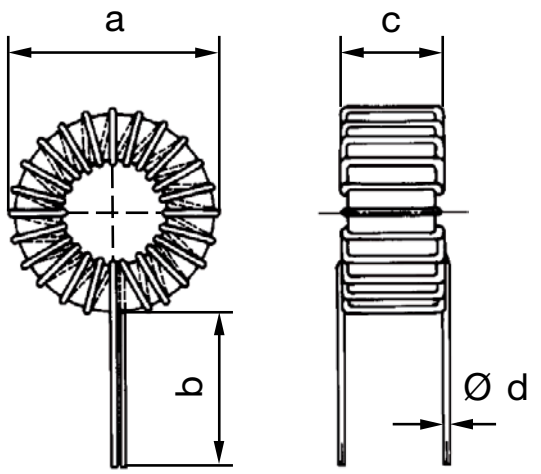
Organization	Design	Standard	Description
IEC	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technologyequipment.

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.
RoHS COMPLIANT	RoHS	SCHURTER AG	EU Directive RoHS 2011/65/EU
	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.

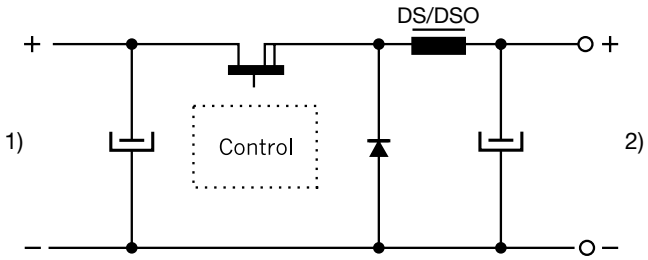
Dimension [mm]



Dimensions: see table of variants

Diagrams

Switch-mode



1) Input
2) DC output regulated

All Variants

I_n [A]	L_n [mH]	R_{cu} [mΩ]	f_{RES} [MHz]	Inductance drop max [%]	A [mm]	B [mm]	C [mm]	D [mm]	Weight [g]	Packing unit [pcs.]	Order Number
0.5	0.8	800	0.8	15	15 mm	20 mm	7 mm	0.3 mm	4 g	200	DS01-175-0001
0.63	0.5	550	2.5	15	15 mm	20 mm	7 mm	0.3 mm	4 g	200	DS01-175-0002
0.63	1	750	1.7	15	19 mm	20 mm	8.5 mm	0.3 mm	7 g	300	DS01-20-0001
1	0.2	200	3.5	15	15 mm	20 mm	7 mm	0.4 mm	4 g	200	DS01-175-0003
1.4	0.1	100	4	20	15 mm	20 mm	7 mm	0.5 mm	4 g	200	DS01-175-0004
1.4	0.2	175	4.7	15	19 mm	20 mm	8.5 mm	0.4 mm	8 g	200	DS01-20-0002
1.4	0.5	200	1.5	20	23 mm	25 mm	9 mm	0.5 mm	13 g	200	DS01-25-0001
1.6	0.5	200	1.7	15	26 mm	25 mm	11 mm	0.5 mm	19 g	100	DS01-30-0001
2	0.2	120	3.3	20	23 mm	25 mm	9 mm	0.6 mm	12 g	200	DS01-25-0002
2	0.3	140	2.5	15	26 mm	25 mm	11 mm	0.5 mm	17 g	100	DS01-30-0002
2	1	190	1.2	20	39 mm	40 mm	14 mm	0.7 mm	55 g	35	DS01-40-0001
3	0.035	20	5	20	15 mm	20 mm	7 mm	0.8 mm	4 g	200	DS01-175-0005
3.15	0.04	33	13	15	19 mm	20 mm	8.5 mm	0.7 mm	8 g	200	DS01-20-0003
3.15	0.1	50	5.7	20	23 mm	25 mm	9 mm	0.8 mm	13 g	200	DS01-25-0003
3.15	0.15	70	3.5	15	26 mm	25 mm	11 mm	0.7 mm	19 g	100	DS01-30-0003
3.15	0.5	90	1.5	20	39 mm	40 mm	14 mm	0.8 mm	55 g	35	DS01-40-0002
3.15	1	180	0.8	20	43 mm	40 mm	18 mm	0.8 mm	104 g	50	DS01-48-0001
4	0.1	40	5	20	26 mm	25 mm	11 mm	0.8 mm	20 g	100	DS01-30-0004
4	0.2	55	3	20	39 mm	40 mm	14 mm	0.8 mm	52 g	50	DS01-40-0003
4	0.5	90	1.5	20	43 mm	40 mm	18 mm	0.9 mm	104 g	20	DS01-48-0002

I_n [A]	L_n [mH]	R_{cu} [mΩ]	f_{RES} [MHz]	Inductance drop max [%]	A [mm]	B [mm]	C [mm]	D [mm]	Weight [g]	Packing unit [pcs.]	Order Number
5	0.3	75	1.5	20	43 mm	40 mm	18 mm	0.8 mm	104 g	20	DS01-48-0003
6	0.1	25	5	20	39 mm	40 mm	14 mm	1 mm	53 g	50	DS01-40-0004
6.3	0.01	8	33	15	19 mm	20 mm	8.5 mm	0.9 mm	9 g	300	DS01-20-0004
7	0.02	10	6.5	20	23 mm	25 mm	9 mm	1.3 mm	14 g	150	DS01-25-0004
9	0.1	20	4	20	43 mm	40 mm	18 mm	1.2 mm	104 g	250	DS01-48-0004
15	0.035	7	5	20	43 mm	40 mm	18 mm	1.8 mm	104 g	250	DS01-48-0005
16	0.16	12	2.5	20	44 mm	40 mm	34 mm	2 mm	104 g	100	DS01-48-0006

R_{cu} at T_u 20°C
Inductance drop at I_n
Derating at T_u >70°C: $I = I_n x ((125-T_u)/55)^{0.5}$

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

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