

Storage Choke, fully potted resign



Approvals and Compliances

Description

- Storage choke
- THT-terminals
- Reduced magnetic reversal
- Constant inductance at high alternating field modulation and large DC magnetization
- Constant inductance at high alternating field modulation and large DC magnetization
- Fully potted resign

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

Rated voltage	up to 600 VDC
Rated Current	0.5 - 16A @ Ta 70 °C
Rated inductance	0.01 - 1 mH, Tol. ±15%
Power Operating Frequency	up to 1 MHz
Terminal Type	THT
Weight	7 - 243 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

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
	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment.

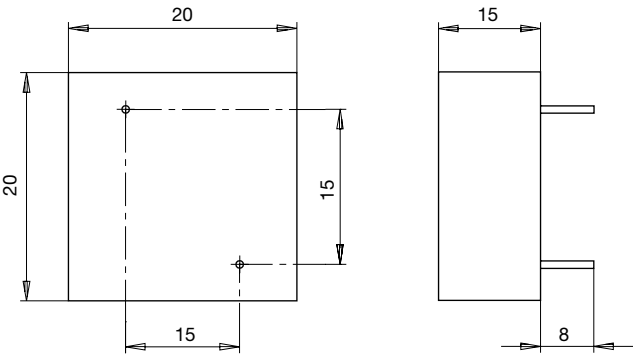
Compliances

The product complies with following Guide Lines

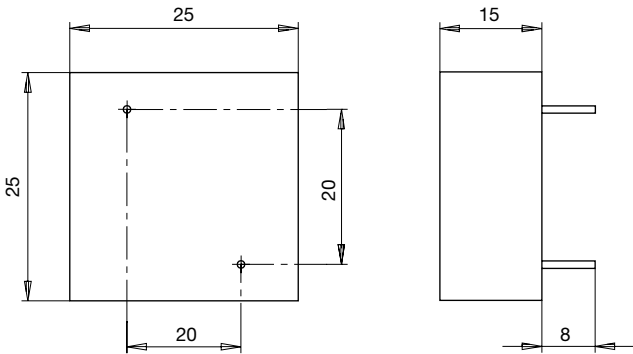
Identification	Details	Initiator	Description
	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
	RoHS	SCHURTER AG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

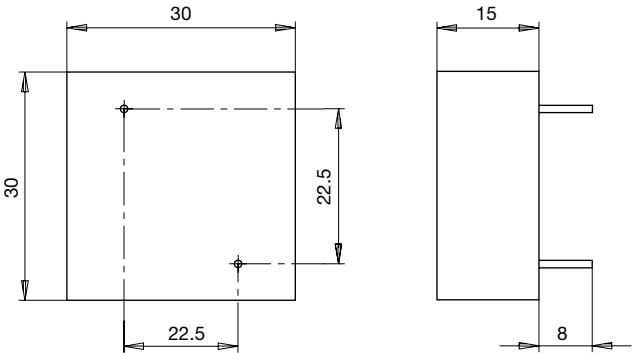
Case 20



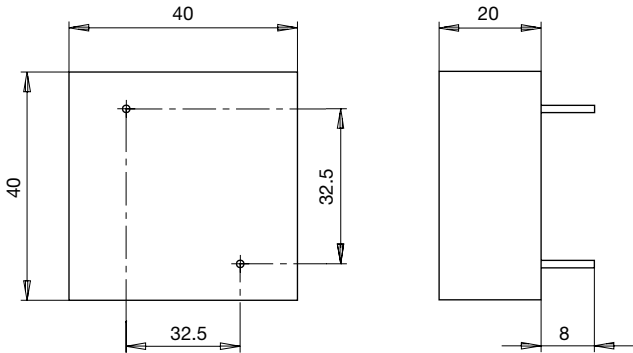
Case 25



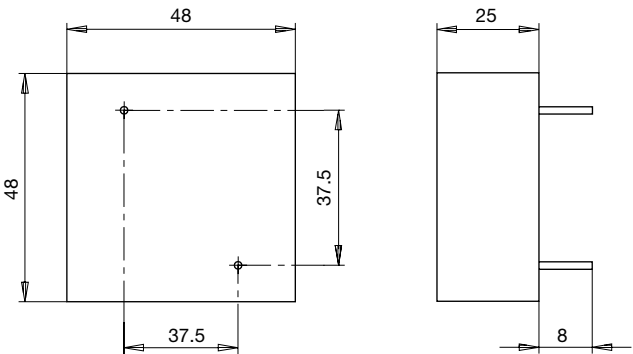
Case 30



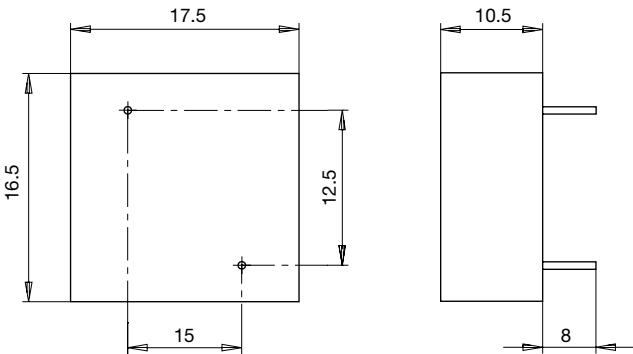
Case 40



Case 48

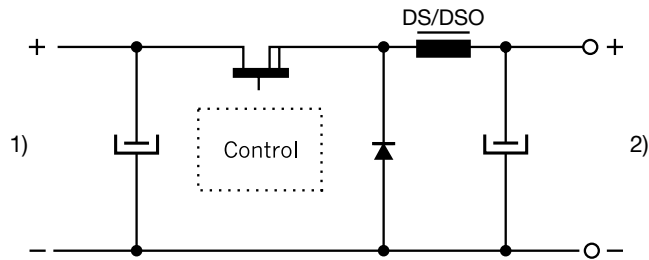


Case 175



Diagrams

Switch-mode



- 1) Input
2) DC output regulated

All Variants

I_n [A]	L_n [mH]	R_{cu} [mΩ]	f_{RES} [MHz]	Conne- tion pins ø	Weight [g]	Housings	Packing unit [pcs.]	Order Number	
0.5	0.8	700	2	0.5	7 g	175	100	DS1-175-0001	■
0.63	0.5	500	2.5	0.5	7 g	175	100	DS1-175-0002	■
1	0.2	180	5	0.5	7 g	175	100	DS1-175-0003	■
1.4	0.1	80	6.5	0.5	7 g	175	100	DS1-175-0004	■
3	0.035	26	11	0.5	7 g	175	100	DS1-175-0005	■
0.63	1	700	1.2	0.5	14 g	20	75	DS1-20-0001	
1.4	0.2	175	4	0.5	14 g	20	75	DS1-20-0002	
3.15	0.04	26	10	0.7	14 g	20	75	DS1-20-0003	
6.3	0.01	8	-	0.7	14 g	20	75	DS1-20-0004	
1.4	0.5	200	1	1	23 g	25	50	DS1-25-0001	■
2	0.2	100	3.5	1	23 g	25	50	DS1-25-0002	
3.15	0.1	40	5.7	1	23 g	25	50	DS1-25-0003	
7	0.02	10	-	1	23 g	25	50	DS1-25-0004	
1.6	0.5	200	-	1	34 g	30	30	DS1-30-0001	
2	0.3	140	-	1	34 g	30	30	DS1-30-0002	
3.15	0.15	55	4.5	1	34 g	30	30	DS1-30-0003	■
4	0.1	36	6	1	34 g	30	30	DS1-30-0004	
2	1	190	-	1.5	84 g	40	35	DS1-40-0001	
3.15	0.5	90	-	1.5	85 g	40	35	DS1-40-0002	
4	0.2	55	3	1.5	84 g	40	35	DS1-40-0003	
6	0.1	26	4.5	1.5	84 g	40	35	DS1-40-0004	
3.15	1	160	1	1.5	243 g	48	20	DS1-48-0001	
4	0.5	80	1.5	1.5	243 g	48	20	DS1-48-0002	
5	0.3	75	-	1.5	243 g	48	20	DS1-48-0003	
9	0.1	20	-	1.5	243 g	48	20	DS1-48-0004	
15	0.035	7	-	1.5	243 g	48	20	DS1-48-0005	
16	0.16	12	-	1.5	243 g	48	10	DS1-48-0006	

■ Most Popular.

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