

Compensated High Current Choke, 1-phase



See below:

**Approvals and Compliances**

**Description**

- Current compensated choke
- 1-phase choke
- THT-terminals
- Flange for mounting onto printed circuit board

**Unique Selling Proposition**

- Ultrahigh current
- High DC voltage
- Open design optimizes heat dissipation
- Optional customized versions

**Applications**

- Frequency converter
- Charge stations
- Energy
- Photovoltaics
- Energy storage systems

**References**

**Weblinks**

[pdf data sheet](#), [html datasheet](#), [General Product Information](#), [Approvals](#), [Distributor-Stock-Check](#), [Detailed request for product](#), [SPICE Library](#), [Landing Page](#)

**Technical Data**

	250VAC		Test Voltage	2500VDC, 2 sec, winding to winding
	max. 800VDC		Climatic Category	40/100/21 acc. to IEC 60068-1
Rated Current	50 - 100A @ Ta 50 °C		Allowable Operation Temp.	-40°C to 100°C
Rated inductance	7 - 24.3mH, Tol. -30% +50%			
Power Operating Frequency	0 - 400Hz			
Terminal Type	THT			
Weight	760 - 890g			
Material	UL 94V-0 Plastic			

**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

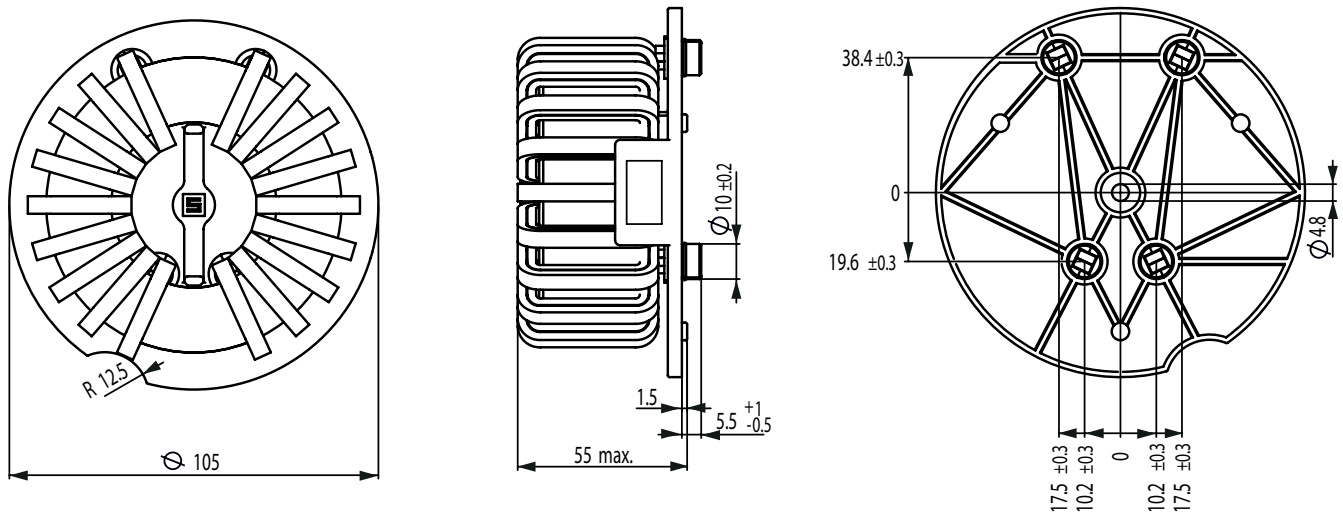
Organization	Design	Standard	Description
	Suitable for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

## Compliances

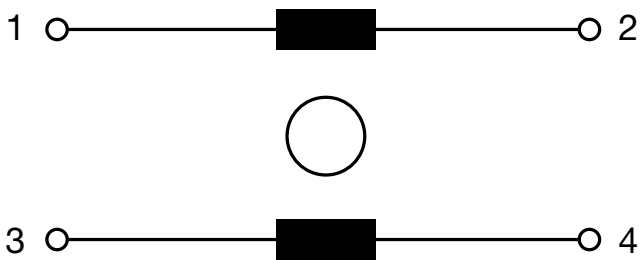
The product complies with following Guide Lines

Identification	Details	Initiator	Description
	<a href="#">CE declaration of conformity</a>	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.
	<a href="#">UKCA declaration of conformity</a>	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	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
	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]



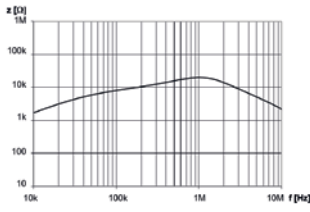
## Diagrams



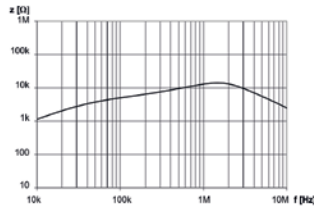
1 phase

Impedance curves

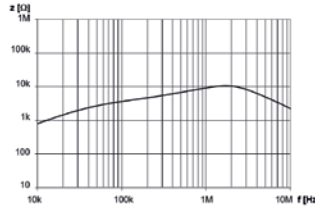
DKUH-1 50A



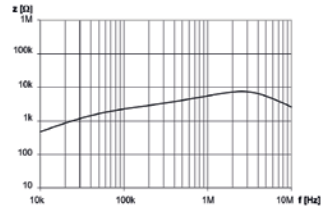
DKUH-1 64A



DKUH-1 85A



DKUH-1 100A



All Variants

$I_n$ [A]	$L_n$ [mH]	$R_{cu}$ [mΩ]	Power Dissipation [W]	$f_{RES}$ [MHz]	Copper $\phi$ [mm]	Weight [g]	Packaging unit [PCS]	Order Number
50	24.3	2.5	6.1	1	2.0 x 5.0	760 g	1	3-143-899
64	14.4	1.4	5.8	1.3	2 x 1.5 x 4.5	770 g	1	3-143-900
85	11.5	0.9	6.5	1.6	2 x 2.5 x 5.0	870 g	1	3-143-902
100	7	0.35	3.5	2.5	2 x 2.5 x 5.0	890 g	1	3-143-903

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