

Compensated High Current Choke, 1-phase

new



Approvals and Compliances

Description

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

Unique Selling Proposition

- Compact size and light weight
- Open design for optimal cooling
- Nanocrystalline or ferrite ring cores
- Customer specific pin outs available

Applications

- Frequency converter
- Charge stations
- UPS-systems
- Switching power supplies

Weblinks

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

Technical Data

Rated voltage	IEC, UL: 300VAC
	CSA: 250 VAC
	max. 425 VDC
Rated Current	10 - 50 A @ Ta 40 °C
Rated inductance	0.15 - 6.9mH, Tol. -30% +50%
Power Operating Frequency	0 - 400 Hz
Terminal Type	THT
Weight	30 - 115 g
Material: Housing	UL 94V-0

Test Voltage	2500VDC, 2 sec, winding to winding
Climatic Category	40/100/21 acc. to IEC 60068-1
Allowable Operation Temp.	-40 °C to 100 °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](#)

Approvals

The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products.

Approval Reference Type: DKIH-1

Approval Logo	Certificates	Certification Body	Description
	VDE Approvals	VDE	Certificate Number: 40043700
	UL Approvals	UL	UL File Number: E72928
	Approvals		UL File Number: DKIH-1
	Approvals		UL File Number: DKIH-1

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.

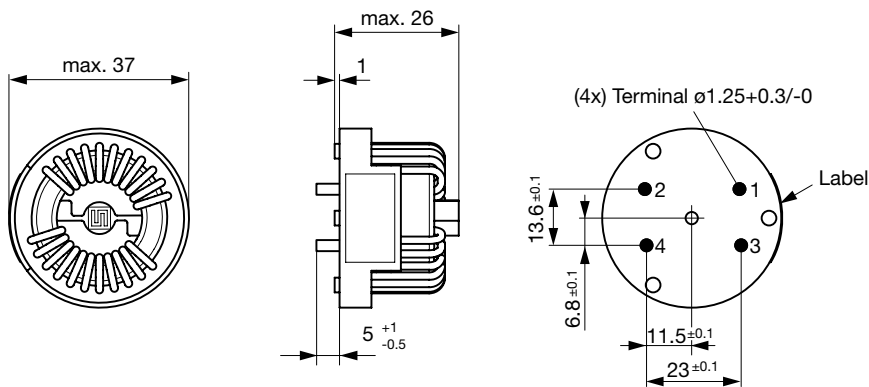
Compliances

The product complies with following Guide Lines

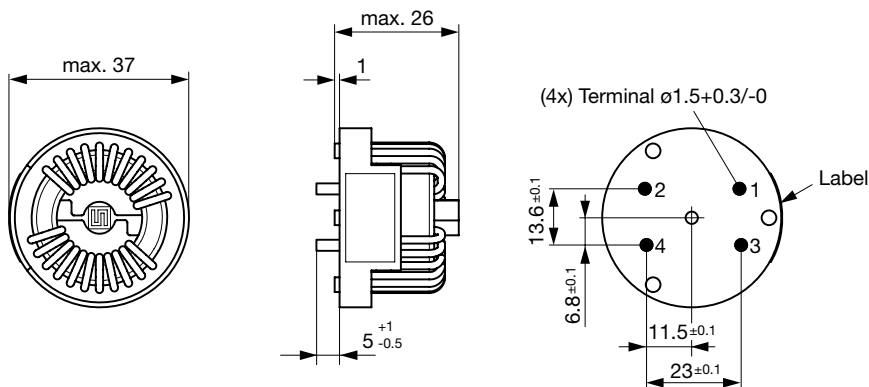
Identification	Details	Initiator	Description
	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008. EU Directive RoHS 2011/65/EU The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS. 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.
	RoHS	SCHURTER AG	
	China RoHS	SCHURTER AG	
	REACH	SCHURTER AG	

Dimension [mm]

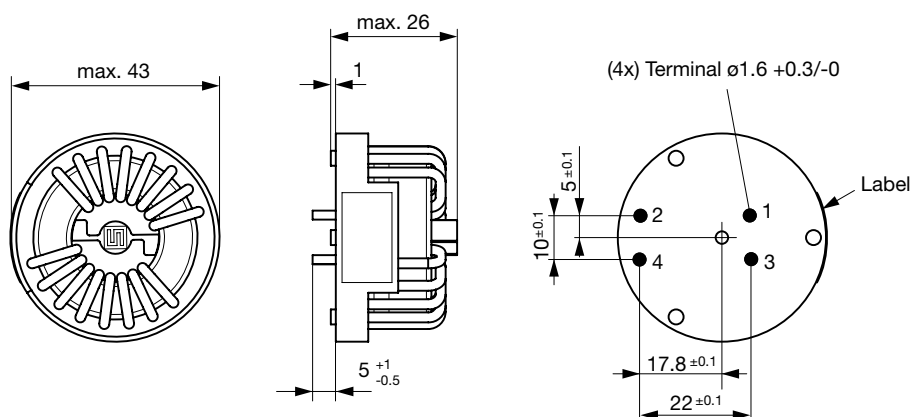
37-10



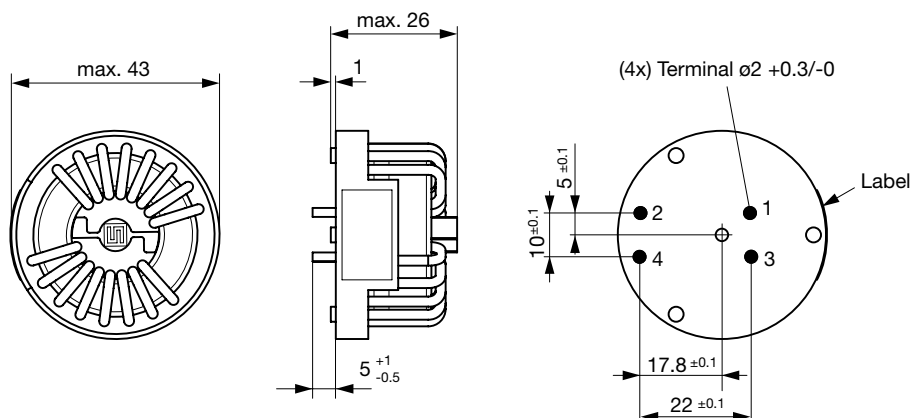
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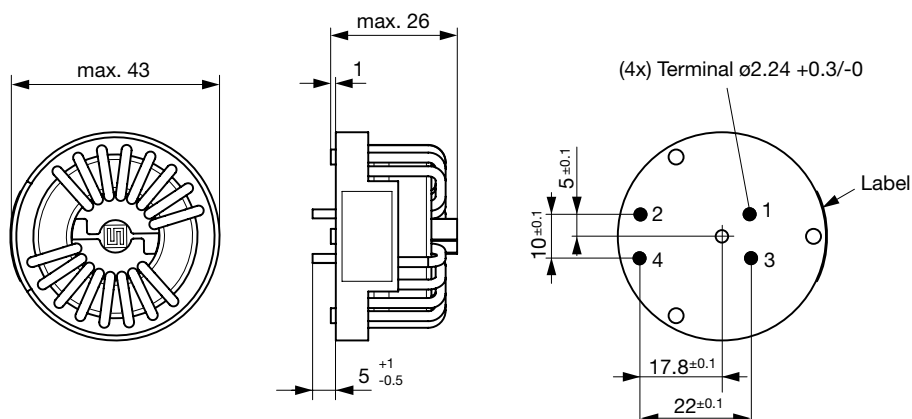
42-16



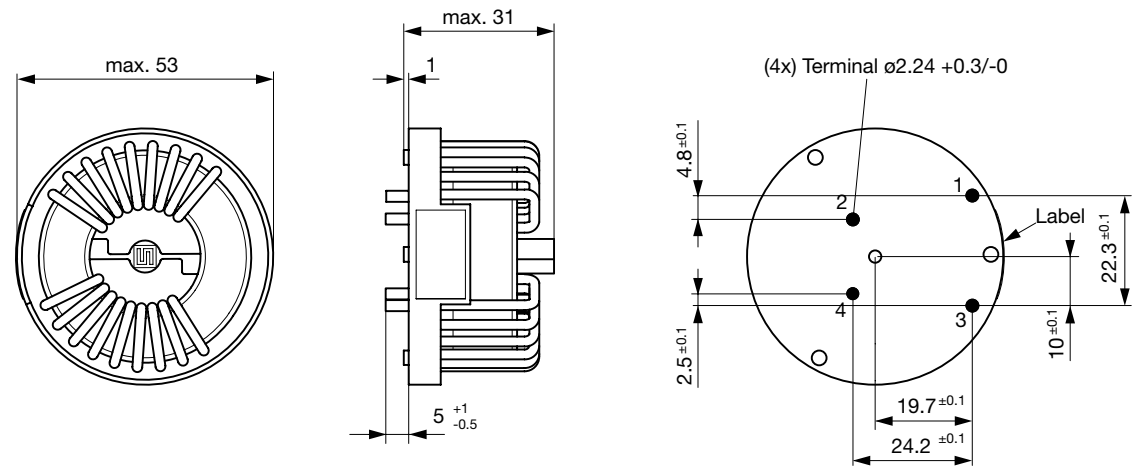
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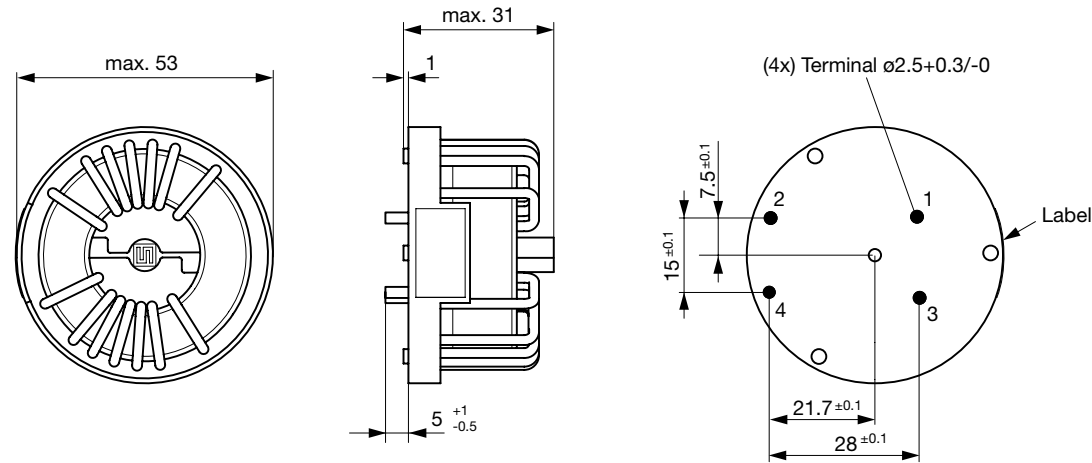
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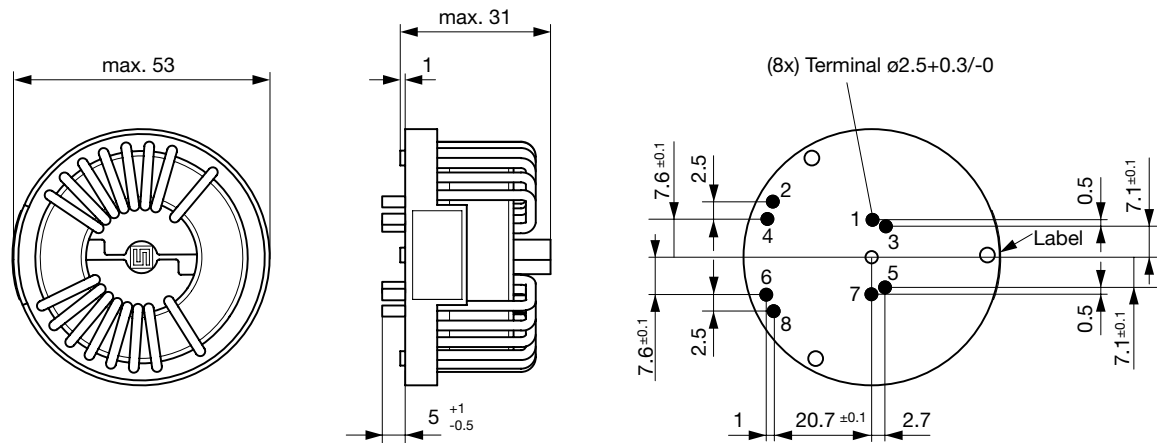
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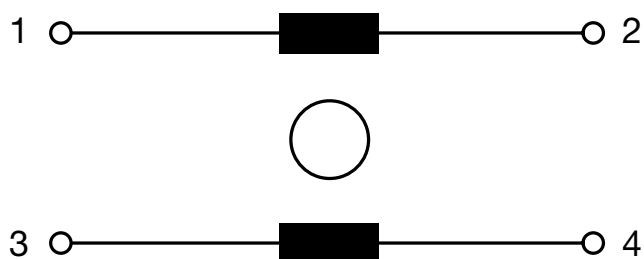
52-40



52-50



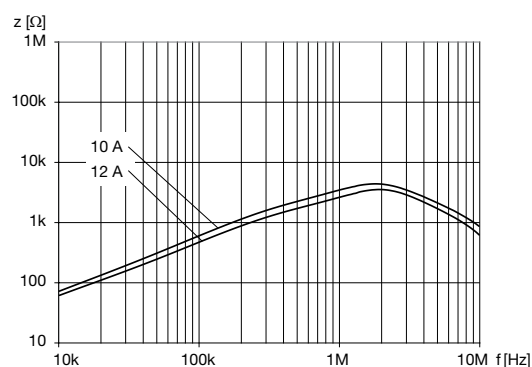
Diagrams



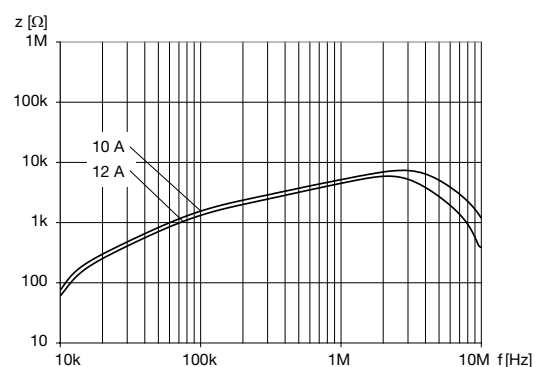
1 phase

Impedance curves

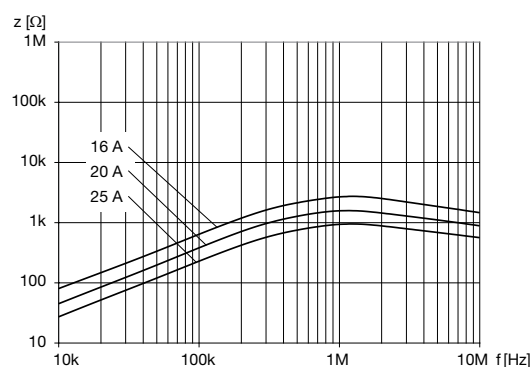
DKIH-3237-xxxx



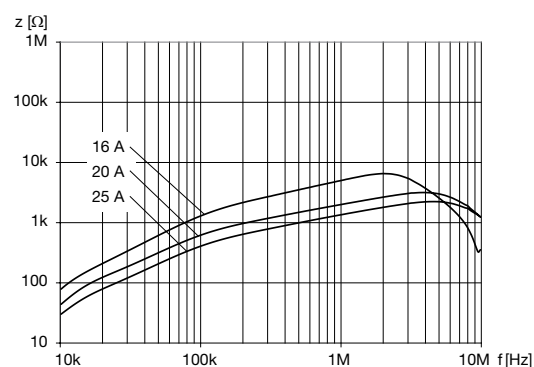
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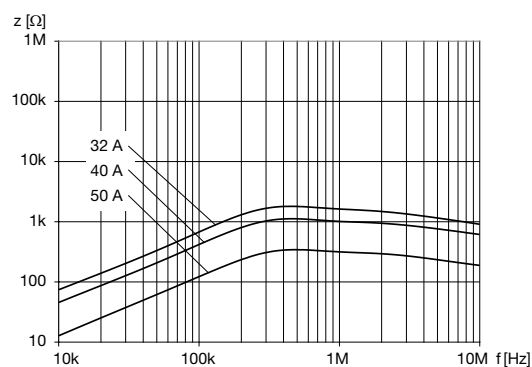
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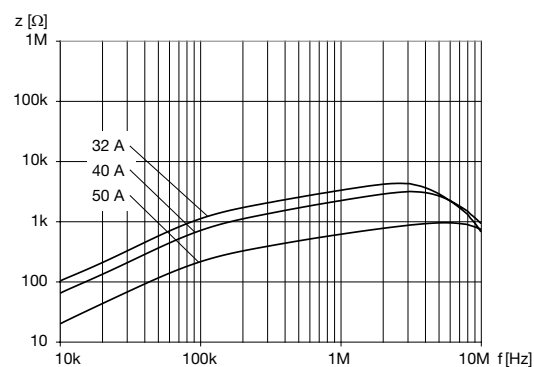
DKIH-3242-xxxx-NK



DKIH-3252-xxxx



DKIH-3252-xxxx-NK



All Variants

I_n [A]	L_n [mH]	R_{cu} [mΩ]	Power _{loss} [W]	f_{RES} [MHz]	Copper ø [mm]	Weight [g]	Housings	Packing unit [pcs.]	Order Number
10	6.9	10	2	2.2	1.25	30 g	37-10	40	DKIH-3237-1010-NK
10	0.8	10	2	2	1.25	30 g	37-10	40	DKIH-3237-10D8
12	6.8	7	2	2.5	1.5	40 g	37-12	40	DKIH-3237-122Q-NK
12	0.7	7	2	2	1.5	40 g	37-12	40	DKIH-3237-12D7
16	6.9	5.6	2.9	2	1.6	45 g	42-16	20	DKIH-3242-160Q-NK
16	0.9	5.6	2.9	1.5	1.6	45 g	42-16	20	DKIH-3242-16D9
20	3.7	2.5	2	4	2	50 g	42-20	20	DKIH-3242-202M-NK
20	0.5	2.5	2	1.5	2	50 g	42-20	20	DKIH-3242-20D5
25	2.35	1.6	2	5	2.24	50 g	42-25	20	DKIH-3242-257K-NK
25	0.3	1.6	2	1.5	2.24	50 g	42-25	20	DKIH-3242-25D3
32	7.2	2.3	4.7	2.5	2.24	105 g	52-32	20	DKIH-3252-324Q-NK
32	0.75	2.3	4.7	0.4	2.24	105 g	52-32	20	DKIH-3252-32D8
40	4.3	1.5	4.8	3	2.5	115 g	52-40	20	DKIH-3252-409M-NK
40	0.45	1.5	4.8	0.4	2.5	115 g	52-40	20	DKIH-3252-40D5
50	1.4	0.5	2.5	6	2 x 2.5	115 g	52-50	20	DKIH-3252-506J-NK
50	0.15	0.5	2.5	0.4	2 x 2.5	115 g	52-50	20	DKIH-3252-50D2

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