

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

- Compact size and light weight
- Open design optimizes heat dissipation
- Nanocrystalline (NK) or ferrite ring cores
- Customer specific pin outs available

Applications

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

References

Substitute for type [DKIL-1](#)

Weblinks

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

Technical Data

Rated voltage	IEC, UL: 300 VAC	Test Voltage	2500 VDC, 2 sec, winding to winding
	CSA: 250 VAC	Climatic Category	40/100/21 acc. to IEC 60068-1
	max. 425 VDC	Allowable Operation Temp.	-40 °C to 100 °C
Rated Current	10 - 50 A @ Ta 40 °C		
Rated inductance	0.15 - 6.9 mH, Tol. -30% +50%		
Power Operating Frequency	0 - 400 Hz		
Terminal Type	THT		
Weight	30 - 115 g		
Material: Housing	UL 94V-0		

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.

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

Application standards

Application standards where the product can be used

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

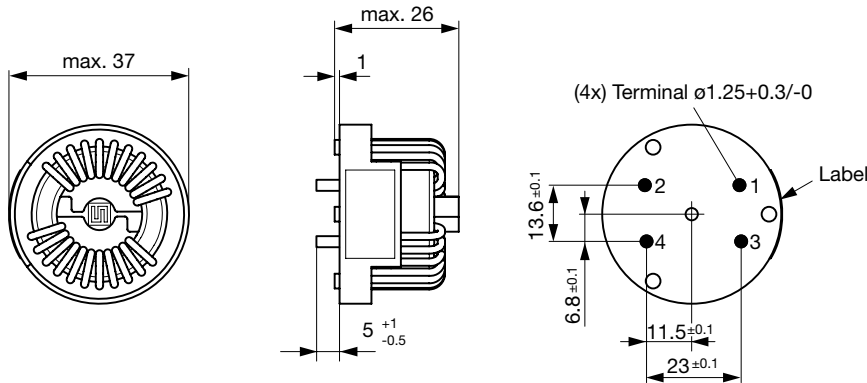
Compliances

The product complies with following Guide Lines

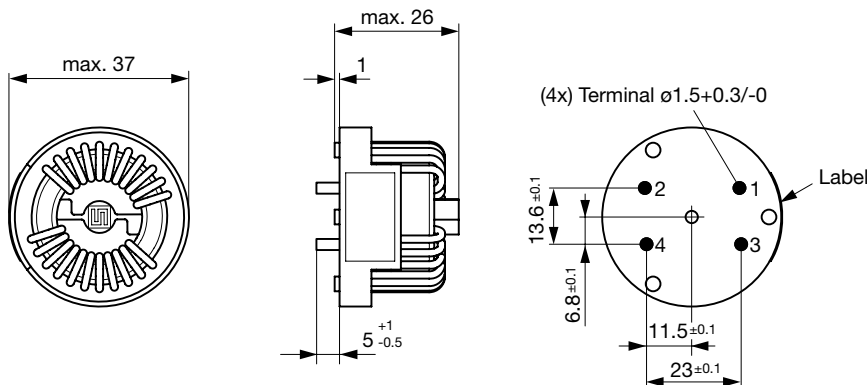
Identification	Details	Initiator	Description
	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
	UKCA declaration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

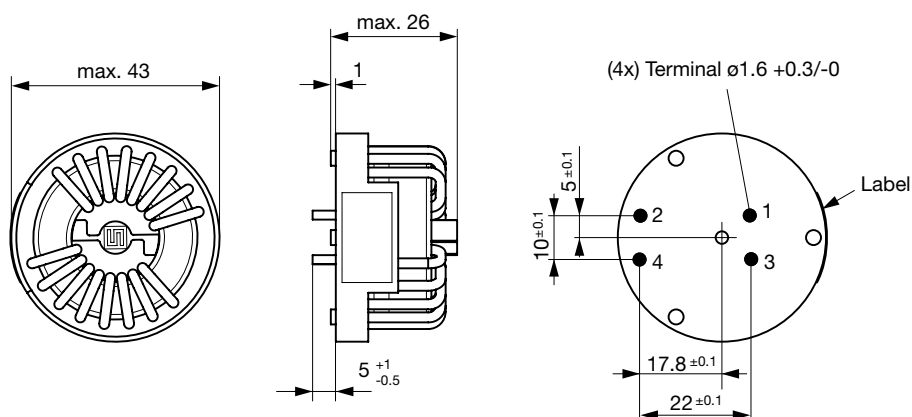
37-10



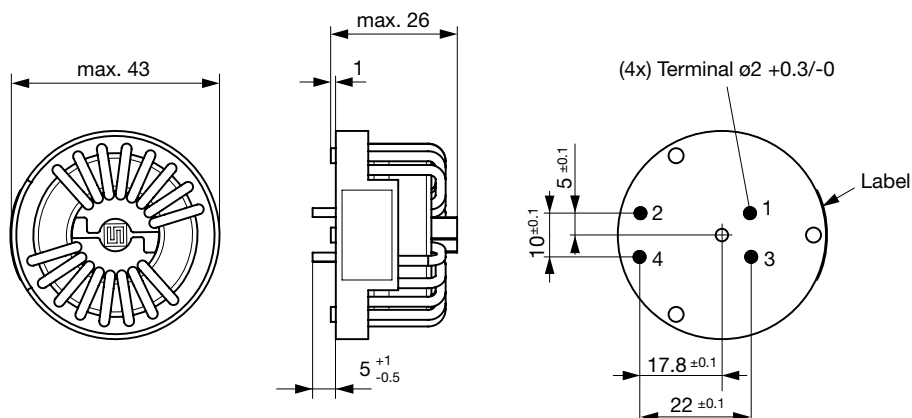
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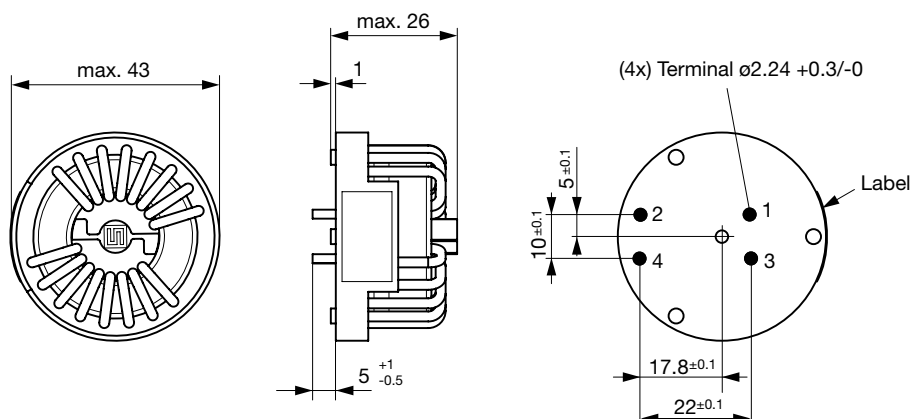
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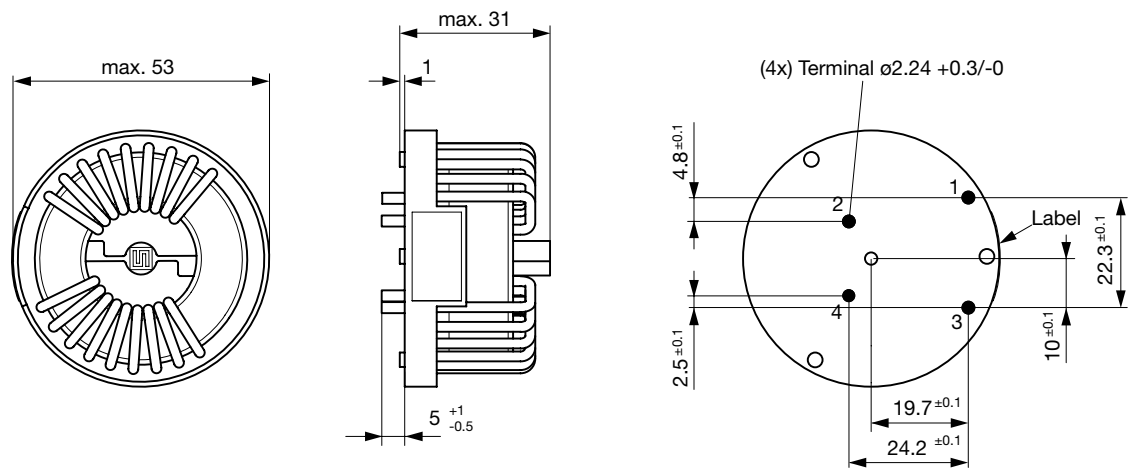
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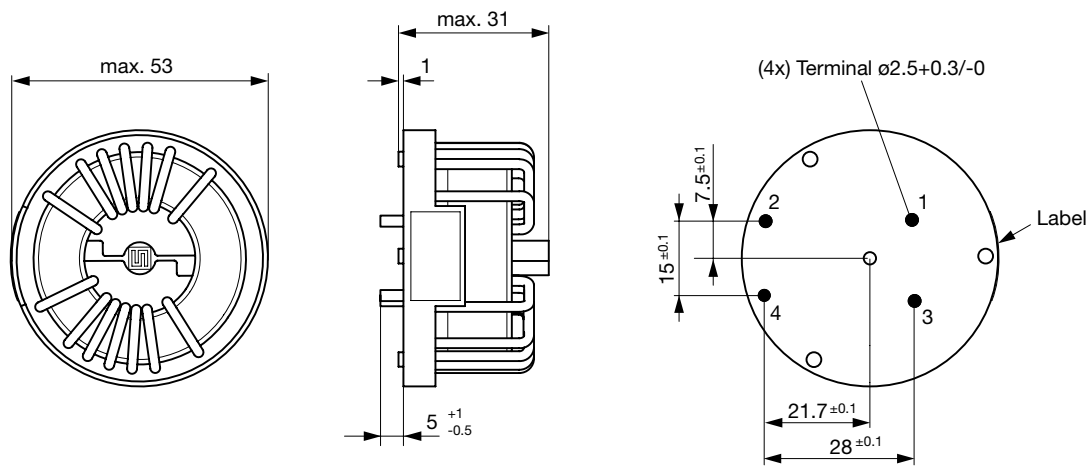
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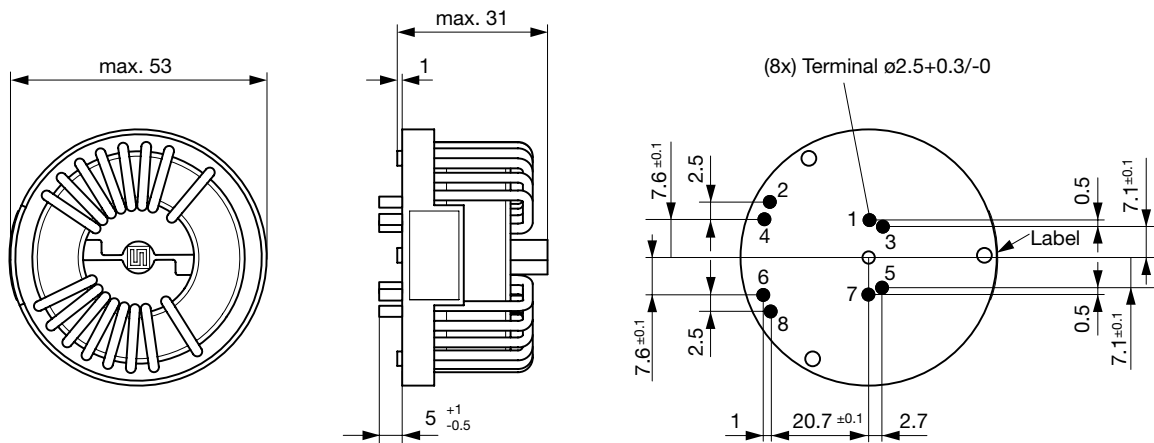
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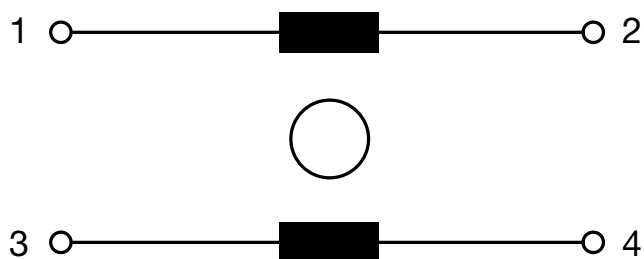
52-40



52-50



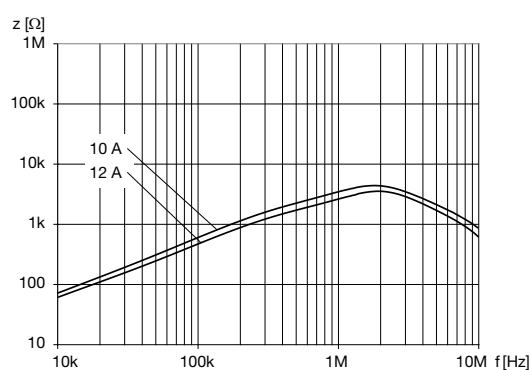
Diagrams



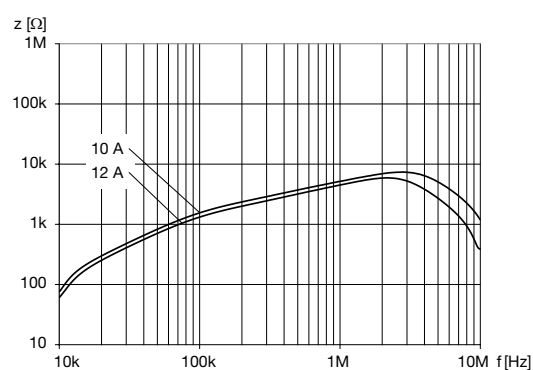
1 phase

Impedance curves

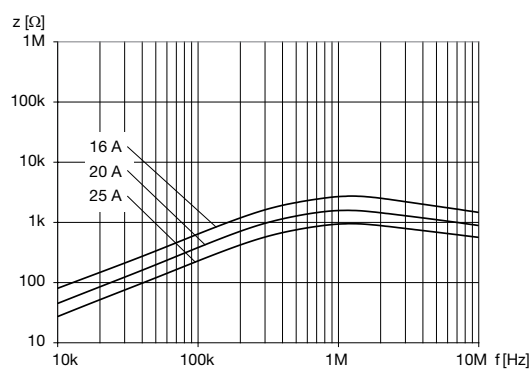
DKIH-3237-xxxx



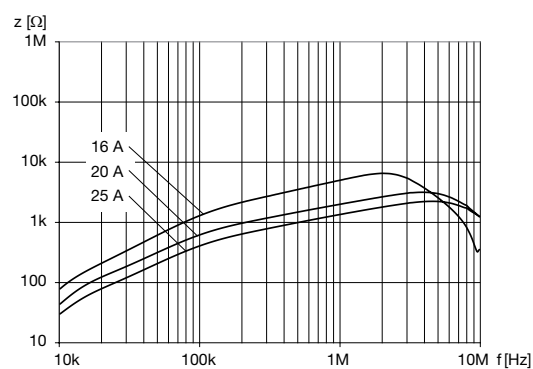
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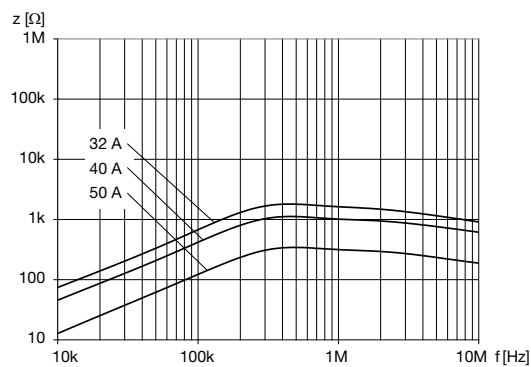
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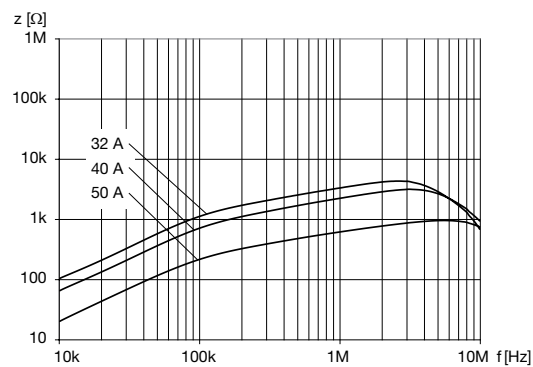
DKIH-3242-xxxx-NK



DKIH-3252-xxxx



DKIH-3252-xxxx-NK



All Variants

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

Most Popular:

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

Accessories

Description



EVB
Evaluation Board for Dkih-1 Dkih-3 and Dkih-1

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Schurter:

[DKIH-3352-12D8](#) [DKIH-3358-50C8](#) [DKIH-3358-40D2](#) [DKIH-3352-25D3](#) [DKIH-3358-32D3](#) [DKIH-3352-102J](#) [DKIH-3352-16D5](#) [DKIH-3352-20D4](#) [DKIH-3237-12D7](#) [DKIH-3242-16D9](#) [DKIH-3242-25D3](#) [DKIH-3242-20D5](#) [DKIH-3237-10D8](#) [DKIH-3252-40D5](#) [DKIH-3252-32D8](#) [DKIH-3252-50D2](#) [DKIH-3237-122Q-NK](#) [DKIH-3242-257K-NK](#) [DKIH-3237-1010-NK](#) [DKIH-3242-202M-NK](#) [DKIH-3242-160Q-NK](#) [DKIH-3252-506J-NK](#) [DKIH-3252-409M-NK](#) [DKIH-3252-324Q-NK](#)