

Compensated High Current Choke, 1-phase



### 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

### Technical Data

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

See below:

### Approvals and Compliances

#### 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](#), [Distributor-Stock-Check](#), [Detailed request for product](#), [SPICE Library](#), [Landing Page](#)

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](#)

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
	<a href="#">VDE Approvals</a>	VDE	Certificate Number: 40043700
	<a href="#">UL Approvals</a>	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 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment.

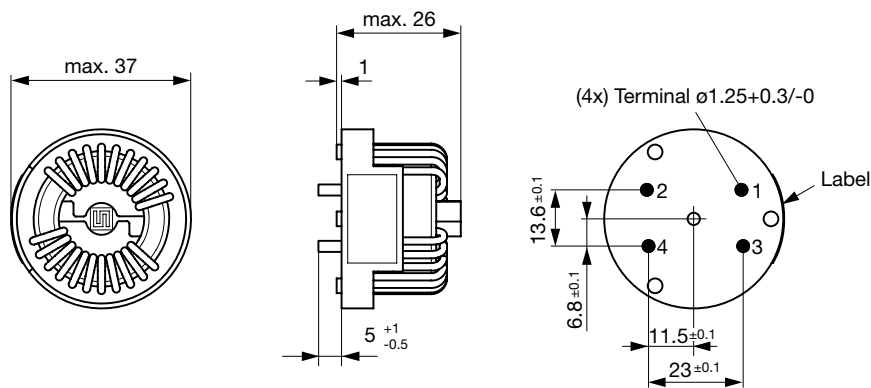
## Compliances

The product complies with following Guide Lines

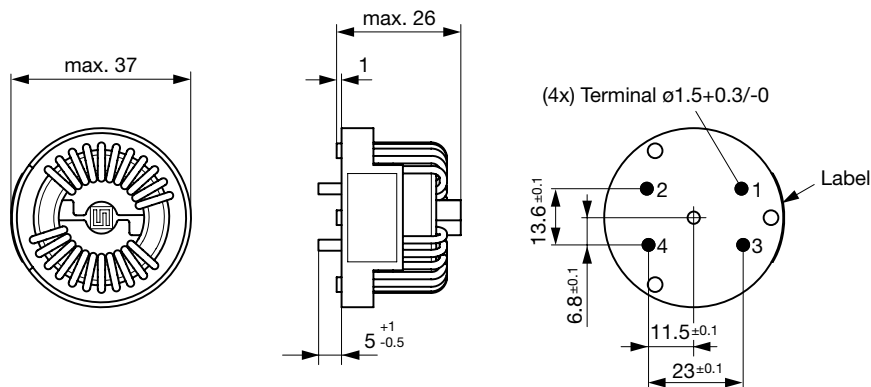
Identification	Details	Initiator	Description
	<a href="#">CE declaration of conformity</a>	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
	<a href="#">RoHS</a>	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
	<a href="#">China RoHS</a>	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.
	<a href="#">REACH</a>	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]

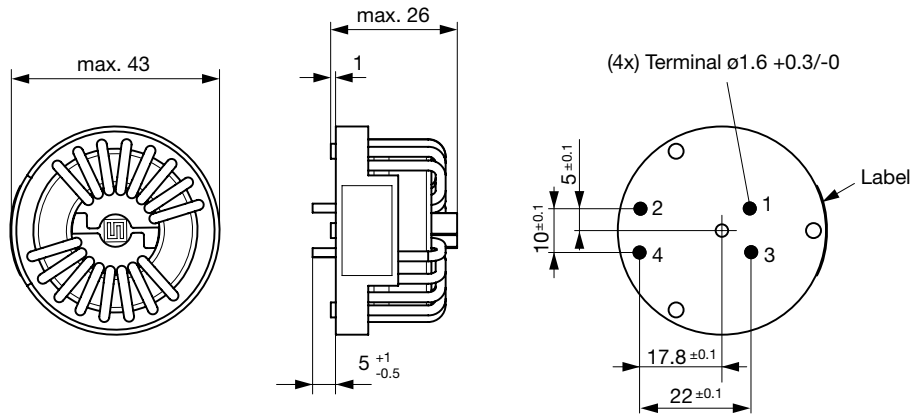
37-10



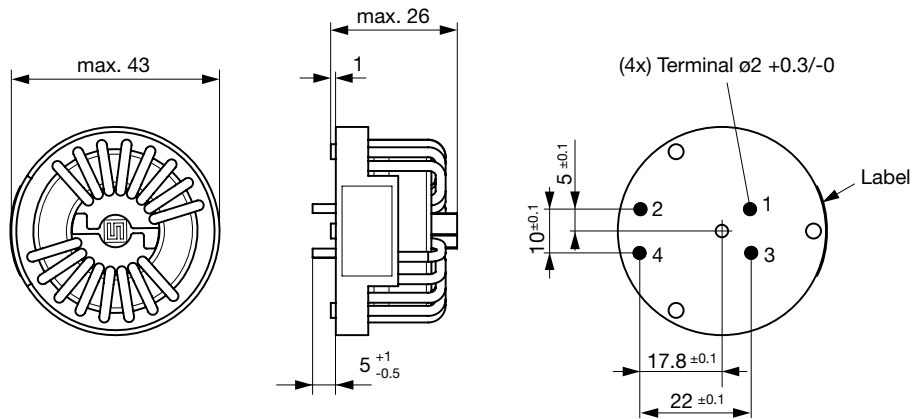
37-12



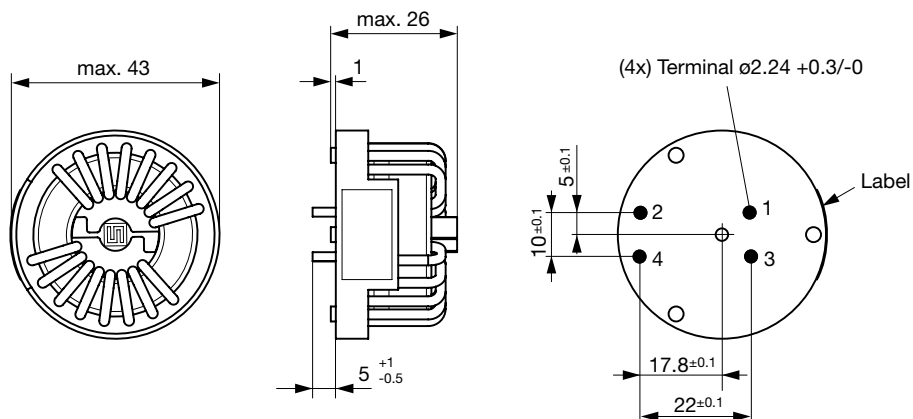
42-16



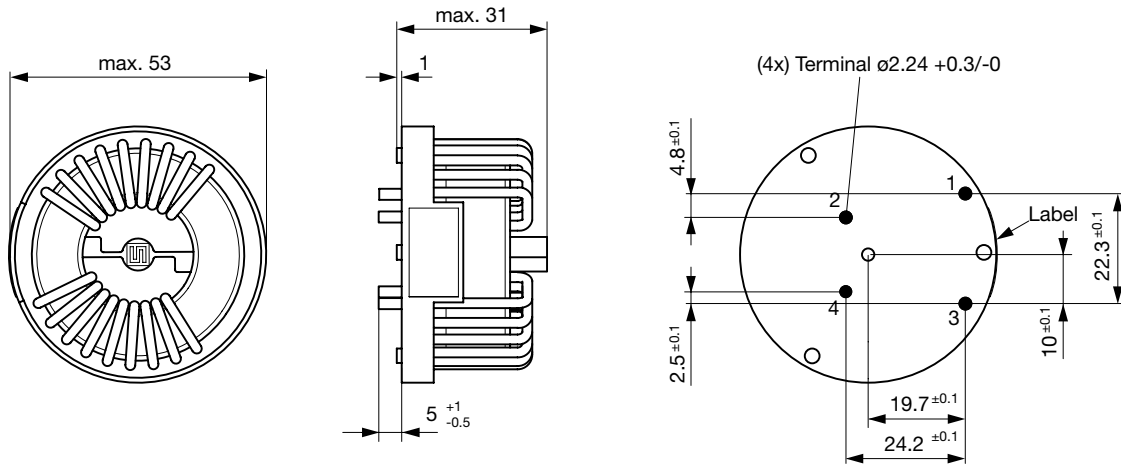
42-20



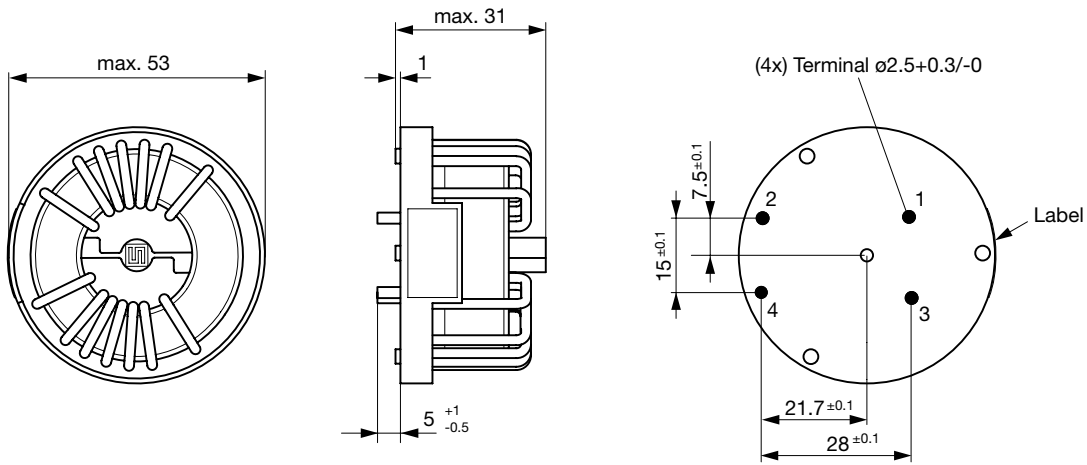
42-25



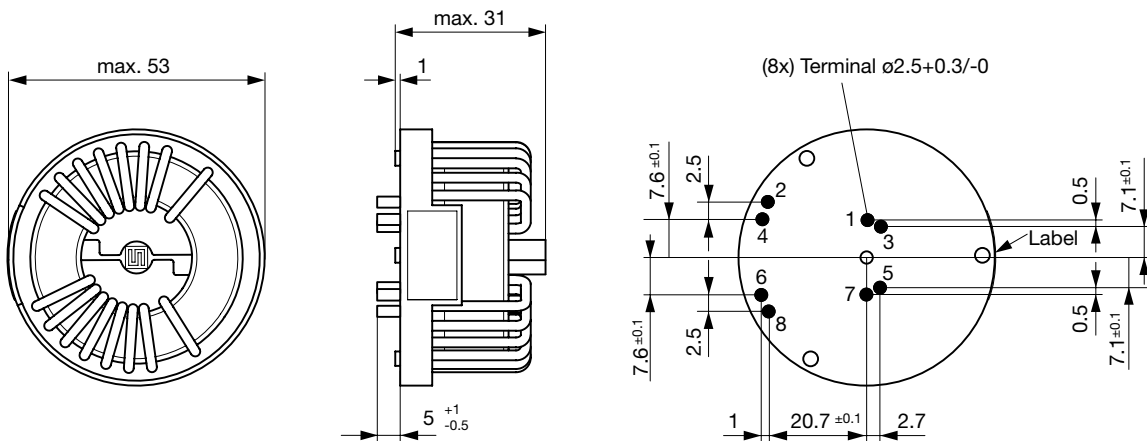
52-32



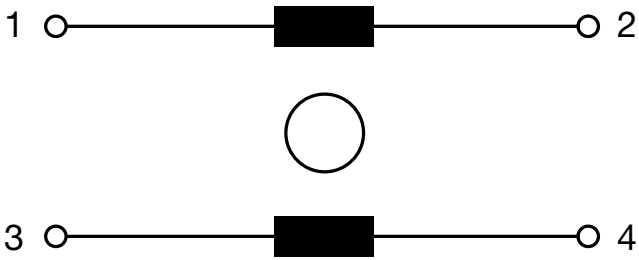
52-40



52-50



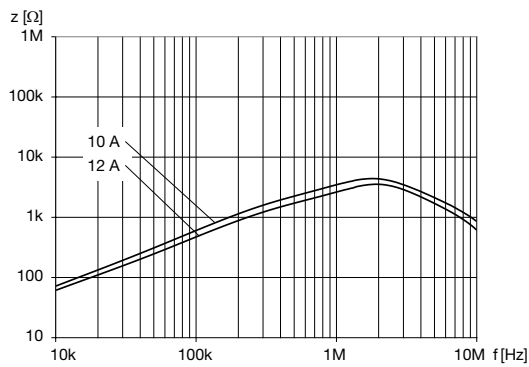
Diagrams



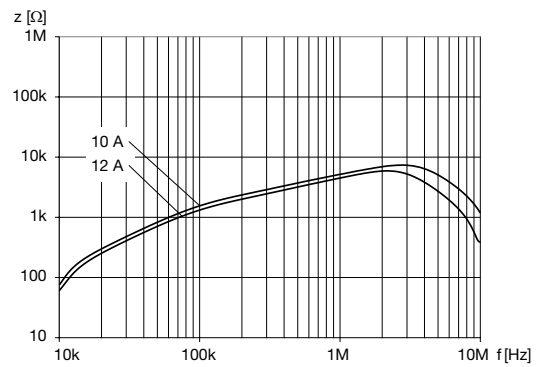
1 phase

Impedance curves

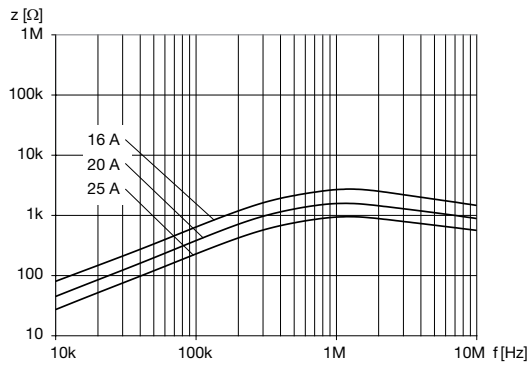
DKIH-3237-xxxx



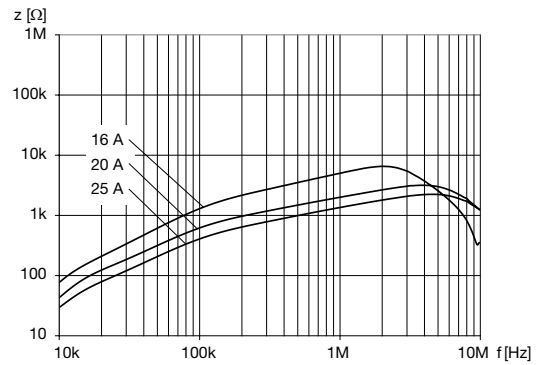
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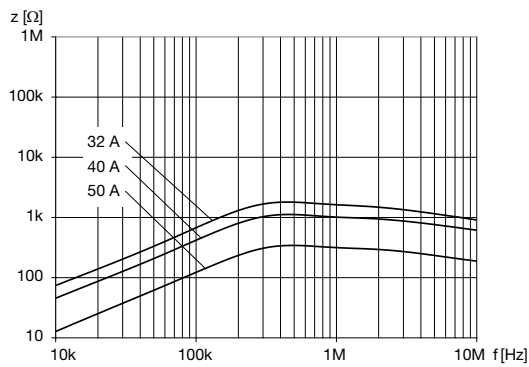
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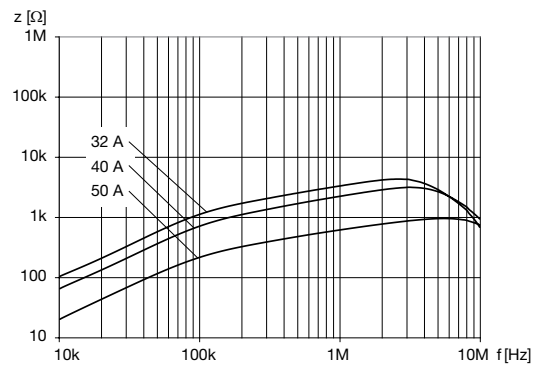
DKIH-3242-xxxx-NK



DKIH-3252-xxxx



DKIH-3252-xxxx-NK



## All Variants

$I_n$ [A]	$L_n$ [mH]	$R_{Cu}$ [mΩ]	Tripped Power Dissipation [W]	$f_{RES}$ [MHz]	Copper $\phi$ [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

Most Popular:

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

## Accessories

## Description



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