

Magnetically Compensated SMD Choke, compact



See below:

Approvals and Compliances

Description

- Current compensated choke
- SMD-terminals
- Vertical and horizontal version

Applications

- Attenuation of common mode interferences
- Designed for 230/400 VAC applications
- Chopper amplifiers
- DC drives and stepper motor controls
- Switching power supplies

References

Weblinks

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

Technical Data

Rated voltage	up to 250 VAC
Rated Current	0.4 - 4 A @ Ta 40 °C
Rated inductance	0.5 - 39 mH, Tol. -30% +50%
Power Operating Frequency	50 / 60 Hz
Terminal Type	SMD
Weight	2 - 6 g
Material	UL 94V-0
Sealing Compound	UL 94V-0

Test Voltage	1.5 kV, 50 Hz, 1 min, winding to winding
Isolation Voltage	2 kV eff., winding to ambient
Climatic Category	25/100/21 acc. to IEC 60068-1
Allowable Operation Temp.	-25 °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: DKFS

Approval Logo	Certificates	Certification Body	Description
	UL Approvals	UL	UR File Number: E72928




Application standards

Application standards where the product can be used

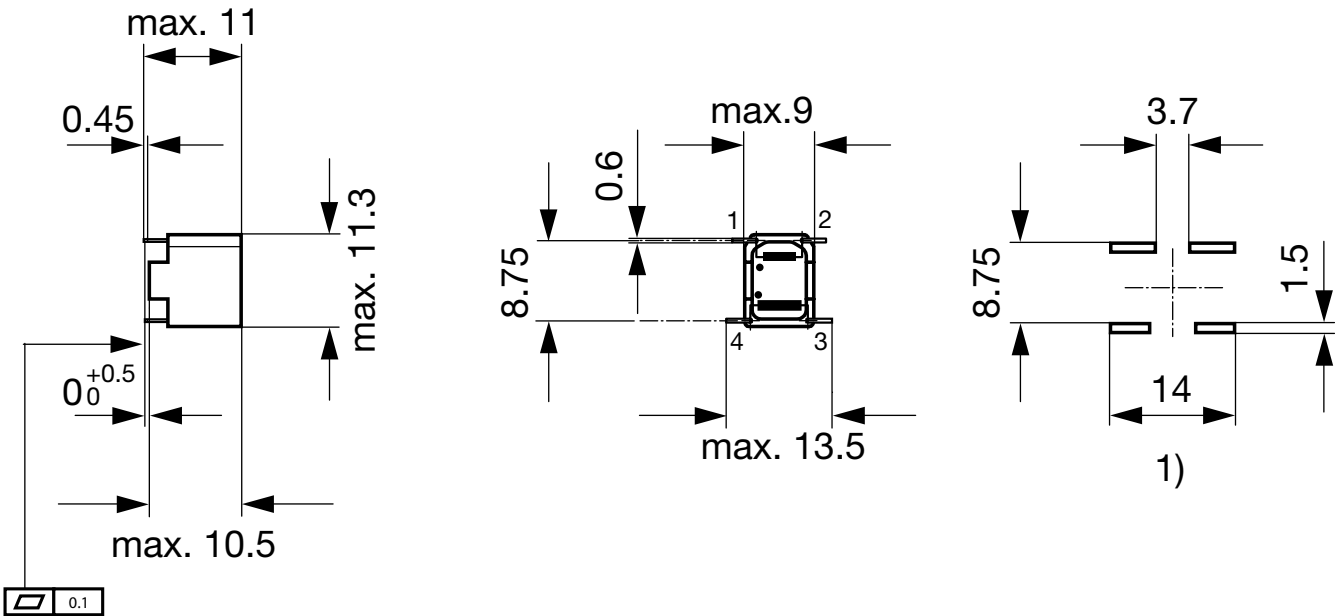
Organization	Design	Standard	Description
	Suitable for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

Compliances

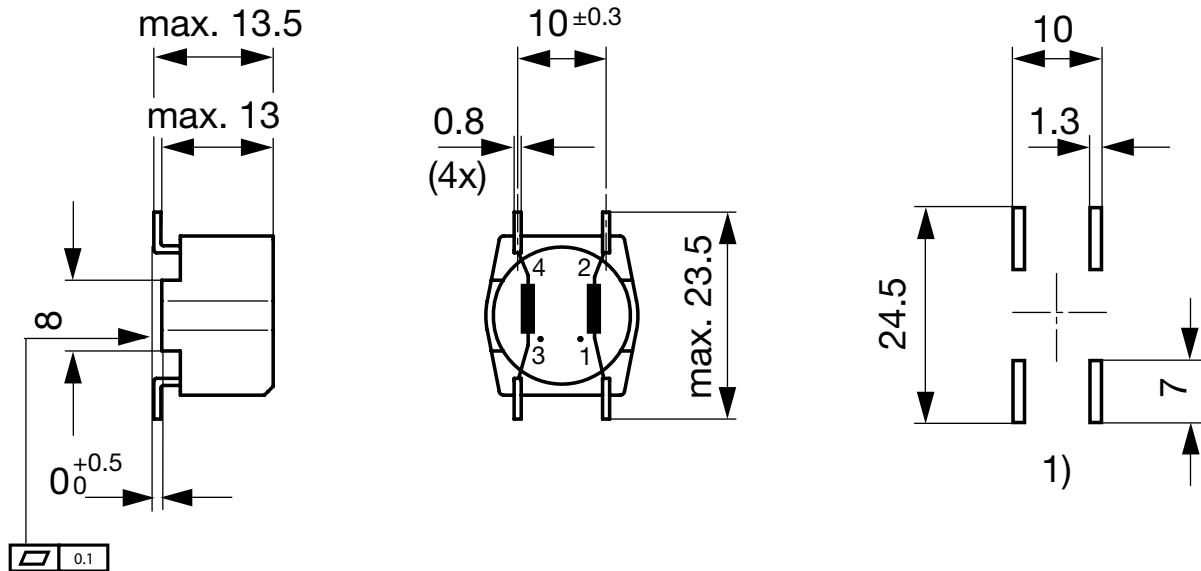
The product complies with following Guide Lines

Identification	Details	Initiator	Description
CE	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	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]
Case 48-2S (SMD-Version)



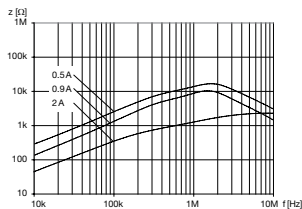
Case 2B



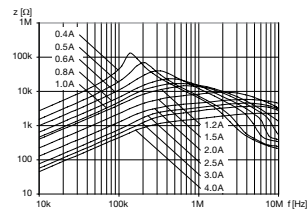
1) Possible solder land pattern

Impedance curves

DKFS-6248-xxxx



DKFS-B22B-xxxx



All Variants

I_n [A]	L_n [mH]	R_{cu} [mΩ]	Power Dissipation [W]	f_{RES} [MHz]	Weight [g]	Housing	Packing unit [pcs.]	Order Number
0.4	39	1286	0.2	0.15	6 g	2B	100	DKFS-B22B-D439
0.5	27	841	0.21	0.2	6 g	2B	100	DKFS-B22B-D527
0.5	4	500	0.25	1.2	2 g	48-2S	176	DKFS-6248-D504
0.6	15	453	0.16	0.35	6 g	2B	100	DKFS-B22B-D615
0.8	10	336	0.22	0.45	6 g	2B	45	DKFS-B22B-D810
0.9	2	240	0.39	1.6	2 g	48-2S	176	DKFS-6248-0102
1	8.2	269	0.27	0.55	6 g	2B	45	DKFS-B22B-0J2Q
1.2	6.8	219	0.32	0.6	6 g	2B	45	DKFS-B22B-1K6Q
1.5	3.3	122	0.28	1.8	6 g	2B	45	DKFS-B22B-1N3L
2	0.5	50	0.4	4.5	2 g	48-2S	176	DKFS-6248-02D5
2	1.8	57	0.23	3	6 g	2B	45	DKFS-B22B-021Q
2.5	1.5	41	0.26	4.5	6 g	2B	45	DKFS-B22B-5K5J
3	1.2	30	0.27	5	6 g	2B	45	DKFS-B22B-0L2J
4	0.7	18	0.29	6.5	6 g	2B	45	DKFS-B22B-04D7

Most Popular.

I _n [A]	L _n [mH]	R _{cu} [mΩ]	Power Dissipation [W]	f _{RES} [MHz]	Weight [g]	Housing	Packing unit [pcs.]	Order Number
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Availability for all products can be searched real-time: <https://www.schurter.com/en/info-center/support-tools/stock-check-distributors>

Standard packaging carton box, tape and reel packaging on request



Mouser Electronics

Authorized Distributor

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

[Schurter:](#)

[DKFS-6248-0102](#) [DKFS-6248-02D5](#) [DKFS-6248-D504](#)