Magnetically Compensated Choke, compact



Magnetically compensated choke
from front side
Solder THT terminal



Magnetically compensated choke
from front side
Solder THT terminal

See below:
Approvals and Compliances

Description

- Current compensated choke
- THT-terminals
- Multiple PCB-mounting options
- High inductance and compact dimensions
- Multiple pin configurations

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
	UL 250 VAC
Rated Current	0.3 - 10 A @ Ta 40 °C
Rated inductance	0.5 - 100 mH, Tol. -30% +50%
Power Operating Frequency	50 / 60 Hz
Terminal Type	THT
Weight	1 - 55 g
Material	UL 94V-0
Sealing Compound	UL 94V-0

Test Voltage	1.5 kV, 50 Hz, 1 min, winding to winding
Isolation Voltage	4 kV eff., winding to ambient
Climatic Category	40/125/56 acc. to IEC 60068-1
Allowable Operation Temp.	-40 °C to 125 °C UL -25°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: DKFP

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

Application standards

Application standards where the product can be used

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

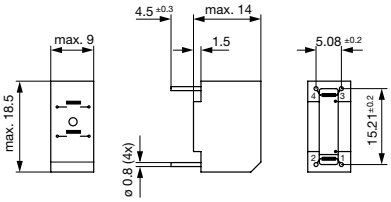
Compliances

The product complies with following Guide Lines

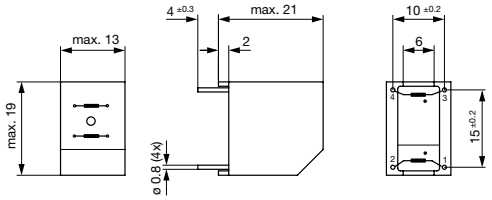
Identification	Details	Initiator	Description
CE	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
UKCA	UKCA declaration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

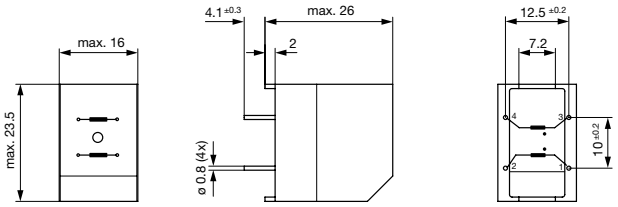
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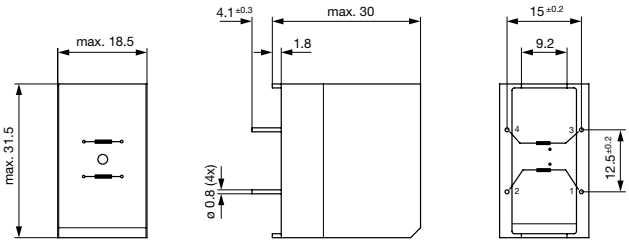
Case 1B



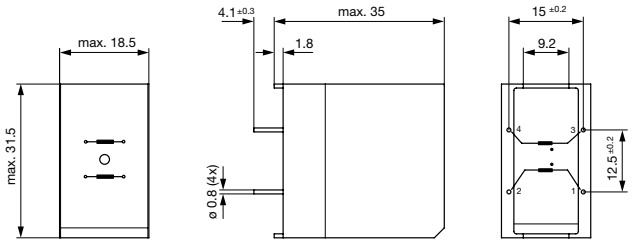
Case 1C



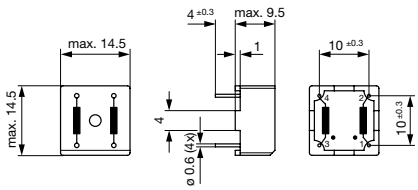
Case 1D



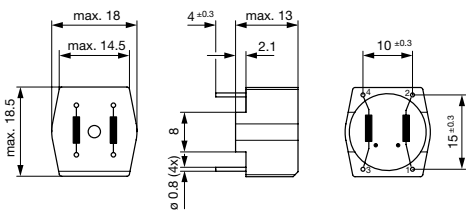
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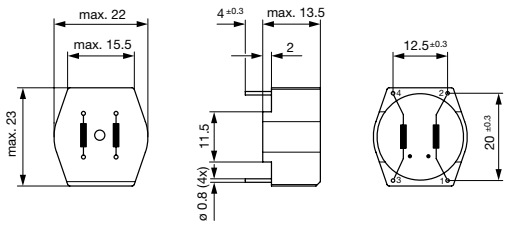
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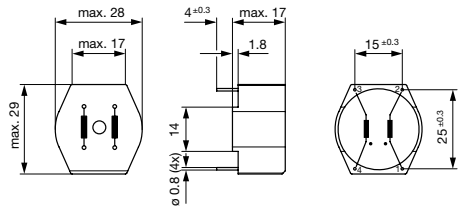
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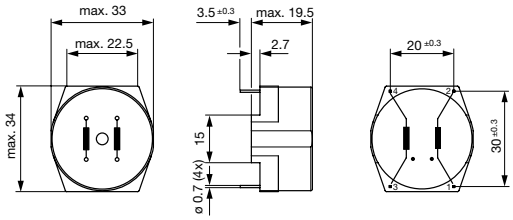
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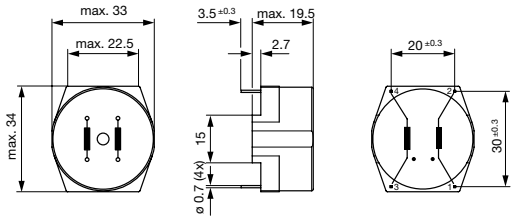
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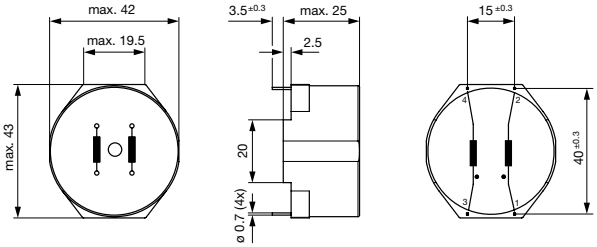
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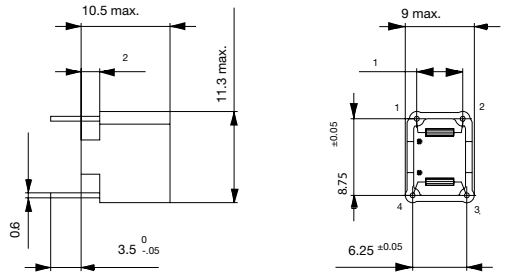
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Case 2H

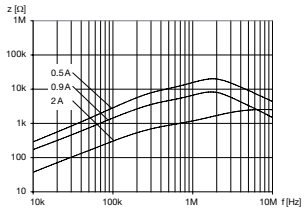


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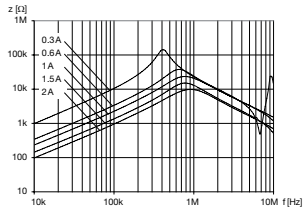


Impedance curves

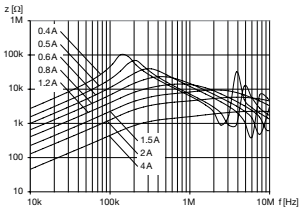
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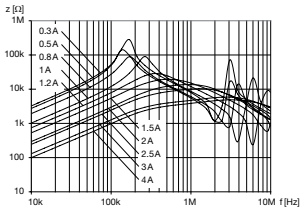
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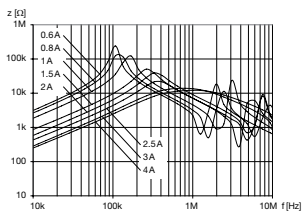
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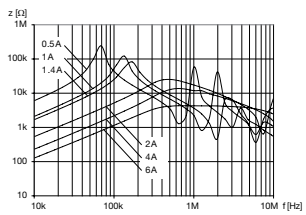
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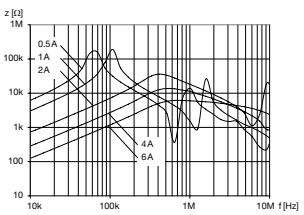
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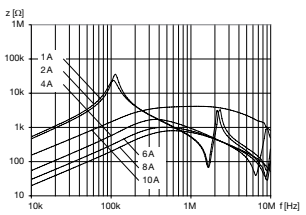
DKFP_E2xE_xxxx



DKFP_G22G_xxxx



DKFP_H22H_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
0.3	12	1280	0.12	0.55	4 g	1A	90	DKFP-A21A-D312
0.3	12	1280	0.12	0.55	3 g	2A	72	DKFP-A22A-D312
0.3	47	1850	0.17	0.15	14 g	1C	35	DKFP-C21C-D347
0.3	47	1850	0.17	0.15	11 g	2C	32	DKFP-C22C-D347
0.4	39	1286	0.2	0.15	8 g	1B	120	DKFP-B21B-D439
0.4	39	1286	0.2	0.15	6 g	2B	45	DKFP-B22B-D439
0.5	100	3100	0.78	0.07	33 g	2G	28	DKFP-G22G-D5J0
0.5	27	841	0.2	0.2	8 g	1B	120	DKFP-B21B-D527
0.5	27	841	0.21	0.2	6 g	2B	45	DKFP-B22B-D527
0.5	39	880	0.22	0.15	14 g	1C	35	DKFP-C21C-D539
0.5	39	880	0.22	0.15	11 g	2C	32	DKFP-C22C-D539
0.5	4	500	0.25	1.2	1.07 g	48-2	176	DKFP-6248-D504
0.5	82	2840	0.71	0.07	34 g	1E	70	DKFP-E21E-D582
0.5	82	2840	0.71	0.07	32 g	2E	28	DKFP-E22E-D582
0.6	15	453	0.16	0.35	8 g	1B	120	DKFP-B21B-D615
0.6	15	453	0.16	0.35	6 g	2B	45	DKFP-B22B-D615
0.6	4.4	380	0.14	1.1	4 g	1A	90	DKFP-A21A-D64M
0.6	4.4	380	0.14	1.1	3 g	2A	72	DKFP-A22A-D64M
0.6	47	1170	0.42	0.1	25 g	1D	56	DKFP-D21D-D647
0.6	47	1170	0.42	0.1	20 g	2D	35	DKFP-D22D-D647
0.8	10	336	0.21	0.45	8 g	1B	120	DKFP-B21B-D810
0.8	10	336	0.22	0.45	6 g	2B	45	DKFP-B22B-D810
0.8	27	520	0.33	0.18	14 g	1C	35	DKFP-C21C-D827
0.8	27	520	0.33	0.18	11 g	2C	32	DKFP-C22C-D827
0.8	39	955	0.61	0.15	25 g	1D	56	DKFP-D21D-D839
0.8	39	955	0.61	0.15	20 g	2D	40	DKFP-D22D-D839
0.9	2	240	0.39	1.6	1.15 g	48-2	176	DKFP-6248-0102
1	15	350	0.35	0.25	11 g	2C	32	DKFP-C22C-0115
1	27	554	0.55	0.16	20 g	2D	35	DKFP-D22D-0127
1	3	200	0.2	1.7	4 g	1A	90	DKFP-A21A-0103
1	3	200	0.2	1.7	3 g	2A	72	DKFP-A22A-0103
1	33	805	0.8	0.13	34 g	1E	70	DKFP-E21E-0133
1	33	805	0.8	0.13	32 g	2E	28	DKFP-E22E-0133
1	47	950	0.95	0.1	33 g	2G	28	DKFP-G22G-0147
1	68	1400	1.4	0.1	55 g	2H	18	DKFP-H22H-0168
1.0	15	350	0.35	0.25	14 g	1C	35	DKFP-C21C-0115
1.0	27	554	0.55	0.16	25 g	1D	56	DKFP-D21D-0127
1.2	10	200	0.29	0.35	14 g	1C	35	DKFP-C21C-1K10
1.2	10	200	0.29	0.35	11 g	2C	32	DKFP-C22C-1K10
1.2	6.8	219	0.31	0.6	8 g	1B	120	DKFP-B21B-1K6Q
1.2	6.8	219	0.32	0.6	6 g	2B	45	DKFP-B22B-1K6Q
1.4	27	520	1	0.16	34 g	1E	70	DKFP-E21E-1M27
1.4	27	520	1	0.16	32 g	2E	28	DKFP-E22E-1M27
1.5	1.6	94	0.21	3.1	4 g	1A	90	DKFP-A21A-1N10
1.5	1.6	94	0.21	3.1	3 g	2A	72	DKFP-A22A-1N10
1.5	15	232	0.52	0.26	25 g	1D	56	DKFP-D21D-1N15
1.5	15	232	0.52	0.26	20 g	2D	35	DKFP-D22D-1N15
1.5	3.3	122	0.28	1.8	8 g	1B	120	DKFP-B21B-1N3L
1.5	3.3	122	0.28	1.8	6 g	2B	45	DKFP-B22B-1N3L
1.5	6.8	150	0.34	0.5	14 g	1C	35	DKFP-C21C-1N6Q
1.5	6.8	150	0.34	0.5	11 g	2C	32	DKFP-C22C-1N6Q
2	0.5	50	0.4	4.5	1.07 g	48-2	176	DKFP-6248-02D5
2	1.1	61	0.25	3.5	4 g	1A	90	DKFP-A21A-021J
2	1.1	61	0.25	3.5	3 g	2A	72	DKFP-A22A-021J

I_n [A]	L_n [mH]	R_{cu} [mΩ]	Power Dissipation [W]	f_{RES} [MHz]	Weight [g]	Housing	Packing unit [pcs.]	Order Number
2	1.8	57	0.23	3	8 g	1B	120	DKFP-B21B-021Q
2	1.8	57	0.23	3	6 g	2B	45	DKFP-B22B-021Q
2	10	149	0.6	0.34	25 g	1D	56	DKFP-D21D-0210
2	10	149	0.6	0.34	20 g	2D	35	DKFP-D22D-0210
2	10	245	1	0.4	33 g	2G	28	DKFP-G22G-0210
2	18	360	1.4	0.2	55 g	2H	18	DKFP-H22H-0218
2	4,2	92	0.37	0.9	14 g	1C	35	DKFP-C21C-024K
2	4.2	92	0.37	0.9	11 g	2C	32	DKFP-C22C-024K
2	6.8	200	0.8	0.5	34 g	1E	70	DKFP-E21E-026Q
2	6.8	200	0.8	0.5	32 g	2E	28	DKFP-E22E-026Q
2.5	3.3	93	0.46	1.2	14 g	1C	35	DKFP-C21C-2N3L
2.5	3.3	73	0.45	1.2	11 g	2C	60	DKFP-C22C-2N3L
2.5	6.8	101	0.63	0.36	25 g	1D	56	DKFP-D21D-2N6Q
2.5	6.8	101	0.63	0.36	20 g	2D	40	DKFP-D22D-2N6Q
3	2	52	0.47	2.5	14 g	1C	35	DKFP-C21C-0302
3	2	52	0.47	2.5	11 g	2C	32	DKFP-C22C-0302
3	4.2	63	0.57	0.85	25 g	1D	56	DKFP-D21D-034K
3	4.2	63	0.57	0.85	20 g	2D	35	DKFP-D22D-034K
4	0.7	18	0.29	6.5	8 g	1B	120	DKFP-B21B-04D7
4	0.7	18	0.29	6.5	6 g	2B	45	DKFP-B22B-04D7
4	1.5	30	0.48	2.8	14 g	1C	35	DKFP-C21C-041N
4	1.5	30	0.48	2.8	11 g	2C	60	DKFP-C22C-041N
4	3.3	45	0.72	1	25 g	1D	56	DKFP-D21D-043L
4	3.3	62	1	0.6	34 g	1E	70	DKFP-E21E-043L
4	3.3	45	0.72	1	20 g	2D	35	DKFP-D22D-043L
4	3.3	62	1	0.6	32 g	2E	28	DKFP-E22E-043L
4	3.9	70	1.1	0.5	33 g	2G	28	DKFP-G22G-043R
4	6.8	100	1.6	0.6	55 g	2H	18	DKFP-H22H-046Q
6	1.8	23	0.83	0.7	34 g	1E	70	DKFP-E21E-061Q
6	1.8	23	0.83	0.7	32 g	2E	28	DKFP-E22E-061Q
6	1.8	23	0.83	0.7	33 g	2G	28	DKFP-G22G-061Q
6	3.9	46	1.6	0.7	55 g	2H	18	DKFP-H22H-063R
8	2.7	22	1.4	1	55 g	2H	18	DKFP-H22H-082P
10	1.8	13	1.3	1.1	55 g	2H	18	DKFP-H22H-101Q

Most Popular.

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19.08.2024

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