

Magnetically Compensated Choke, compact



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

Weblinks

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

Technical Data

Rated voltage	up to 250 VAC	Test Voltage	1.5kV, 50Hz, 1 min, winding to winding
Rated Current	0.3 - 10A @ Ta 40 °C	Isolation Voltage	4kV eff., winding to ambient
Rated inductance	0.5 - 100mH, Tol. -30% +50%	Climatic Category	40/125/56 acc. to IEC 60068-1
Power Operating Frequency	DC - 1 kHz	Allowable Operation Temp.	-40°C to 125°C
Terminal Type	THT		
Weight	1 - 55g		
Material: Housing	UL 94V-0		
Sealing Compound	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](#)

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
	UL Approvals	UL	UL File Number:





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.

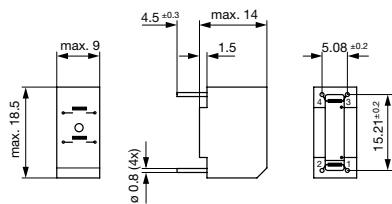
Compliances

The product complies with following Guide Lines

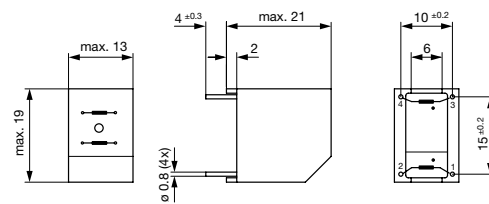
Identification	Details	Initiator	Description
	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
	RoHS	SCHURTER AG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

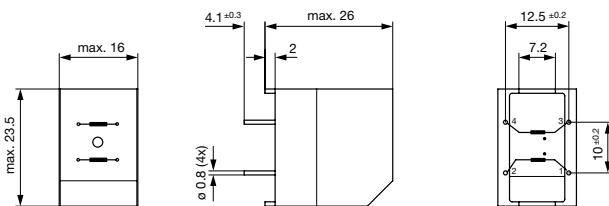
Case 1A



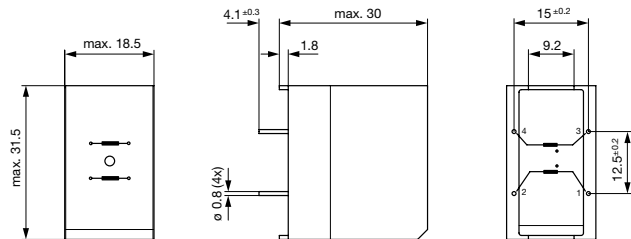
Case 1B



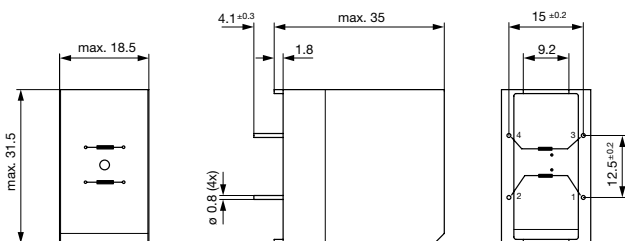
Case 1C



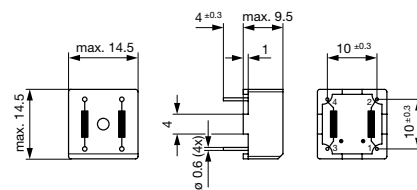
Case 1D



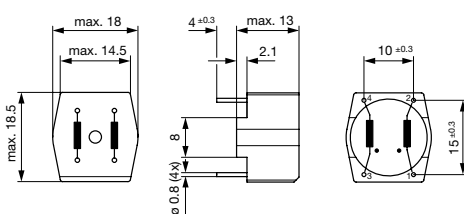
Case 1E



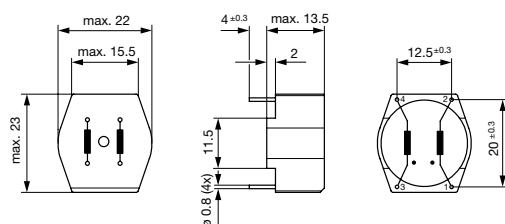
Case 2A



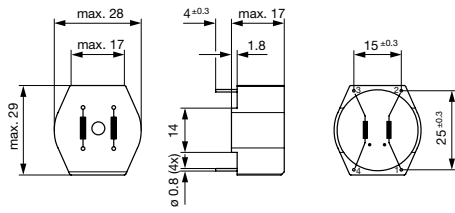
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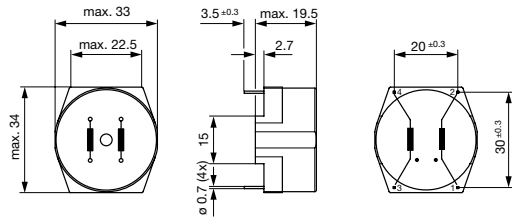
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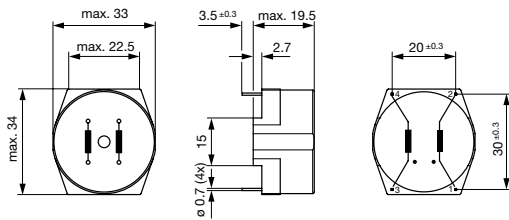
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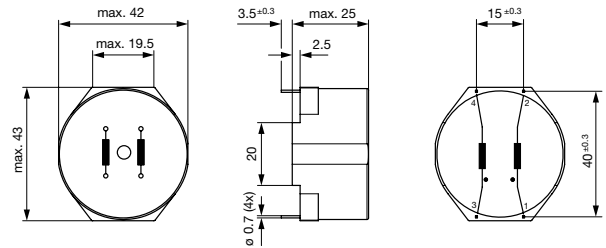
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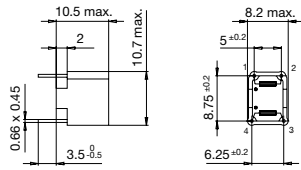
Case 2G



Case 2H

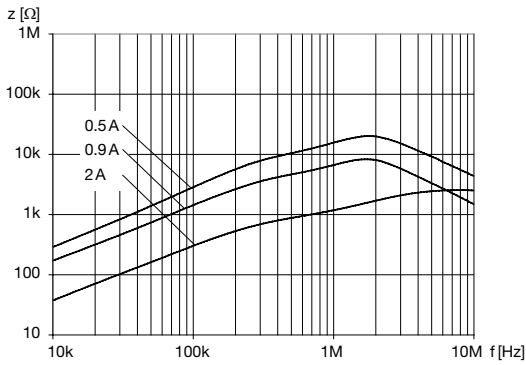


Case 48-2

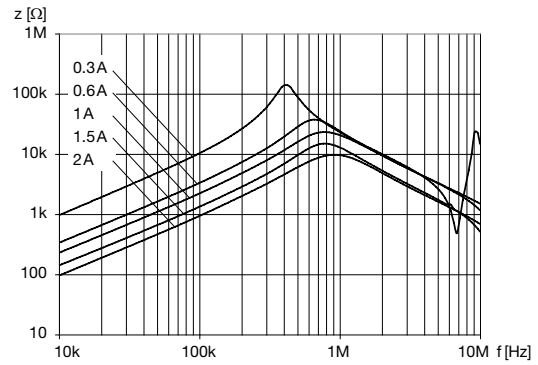


Impedance curves

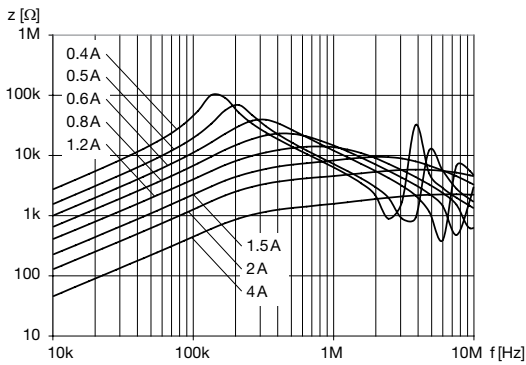
DKFP_6248_xxxx



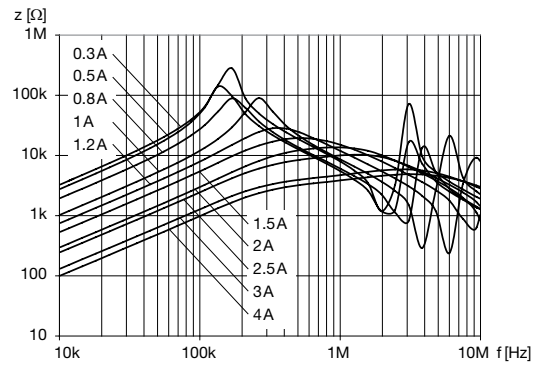
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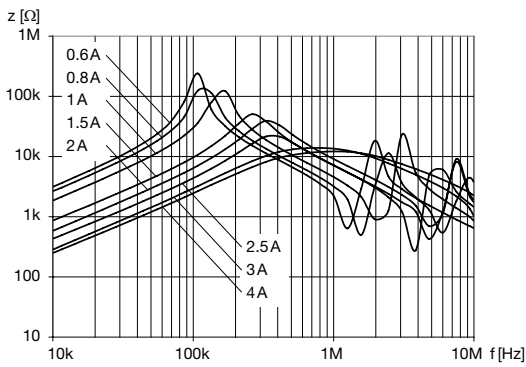
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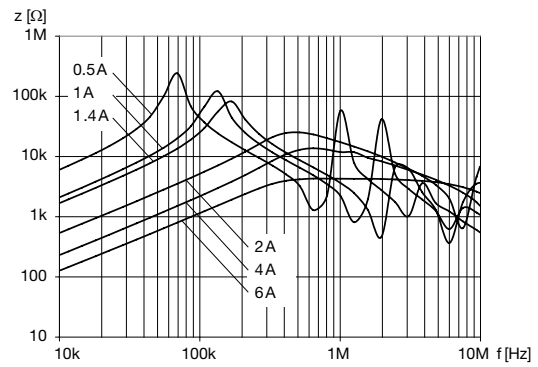
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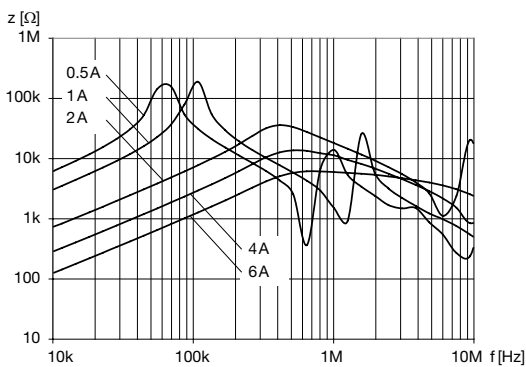
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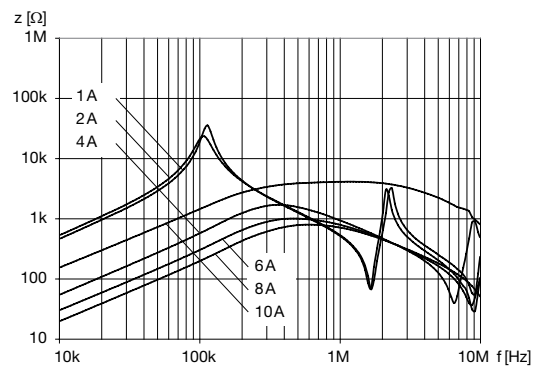
DKFP_E2xE_xxxx



DKFP_G22G_xxxx



DKFP_H22H_xxxx



All Variants

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

I_n [A]	L_n [mH]	R_{cu} [mΩ]	Power _{loss} [W]	f_{RES} [MHz]	Weight [g]	Housings	Packing unit [pcs.]	Order Number
2	1.8	57	0.23	3	6 g	2B	45	DKFP-B22B-021Q
2	1.8	57	0.23	3	8 g	1B	120	DKFP-B21B-021Q
2	10	149	0.6	0.34	20 g	2D	35	DKFP-D22D-0210
2	10	149	0.6	0.34	25 g	1D	56	DKFP-D21D-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	32 g	2E	28	DKFP-E22E-026Q
2	6.8	200	0.8	0.5	34 g	1E	70	DKFP-E21E-026Q
2.5	3.3	73	0.45	1.2	11 g	2C	60	DKFP-C22C-2N3L
2.5	3.3	93	0.46	1.2	14 g	1C	35	DKFP-C21C-2N3L
2.5	6.8	101	0.63	0.36	20 g	2D	40	DKFP-D22D-2N6Q
2.5	6.8	101	0.63	0.36	25 g	1D	56	DKFP-D21D-2N6Q
3	2	52	0.47	2.5	11 g	2C	32	DKFP-C22C-0302
3	2	52	0.47	2.5	14 g	1C	35	DKFP-C21C-0302
3	4.2	63	0.57	0.85	20 g	2D	35	DKFP-D22D-034K
3	4.2	63	0.57	0.85	25 g	1D	56	DKFP-D21D-034K
4	0.7	18	0.29	6.5	6 g	2B	45	DKFP-B22B-04D7
4	0.7	18	0.29	6.5	8 g	1B	120	DKFP-B21B-04D7
4	1.5	30	0.48	2.8	11 g	2C	60	DKFP-C22C-041N
4	1.5	30	0.48	2.8	14 g	1C	35	DKFP-C21C-041N
4	3.3	45	0.72	1	20 g	2D	35	DKFP-D22D-043L
4	3.3	45	0.72	1	25 g	1D	56	DKFP-D21D-043L
4	3.3	62	1	0.6	32 g	2E	28	DKFP-E22E-043L
4	3.3	62	1	0.6	34 g	1E	70	DKFP-E21E-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	32 g	2E	28	DKFP-E22E-061Q
6	1.8	23	0.83	0.7	33 g	2G	28	DKFP-G22G-061Q
6	1.8	23	0.83	0.7	34 g	1E	70	DKFP-E21E-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

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