

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

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	Test Voltage	1.5 kV, 50 Hz, 1 min, winding to winding
	UL 250 VAC	Isolation Voltage	4 kV eff., winding to ambient
Rated Current	0.3 - 10 A @ Ta 40 °C	Climatic Category	40/125/56 acc. to IEC 60068-1
Rated inductance	0.5 - 100 mH, Tol. -30% +50%	Allowable Operation Temp.	-40 °C to 125 °C UL -25 °C
Power Operating Frequency	50 / 60 Hz		
Terminal Type	THT		
Weight	1 - 55 g		
Material	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](#)

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
	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

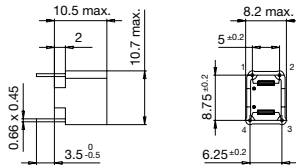
Compliances

The product complies with following Guide Lines

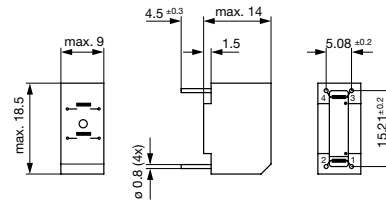
Identification	Details	Initiator	Description
	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
	UKCA declaration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

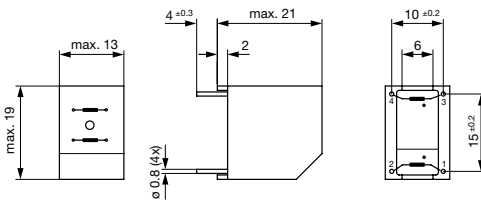
Case 48-2



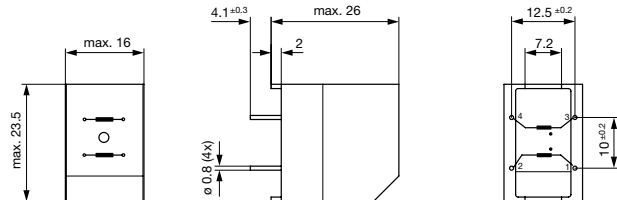
Case 1A



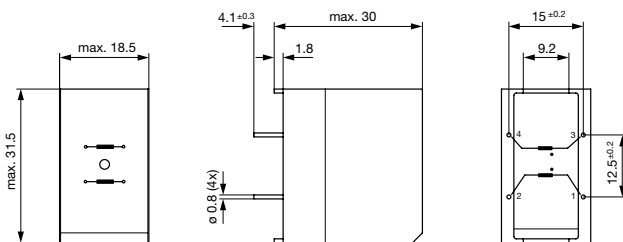
Case 1B



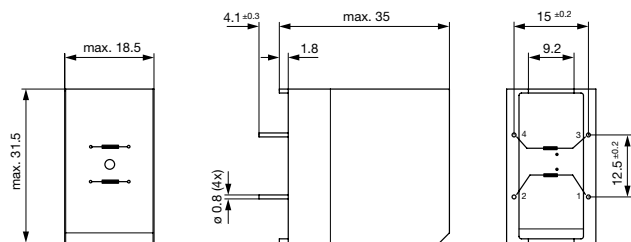
Case 1C



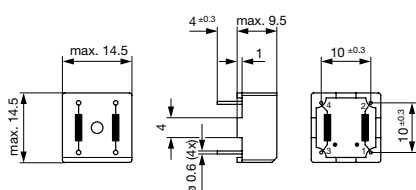
Case 1D



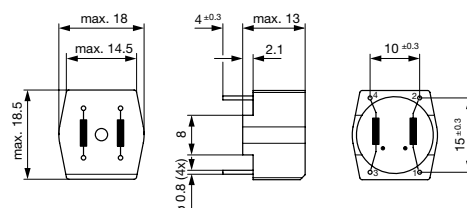
Case 1E



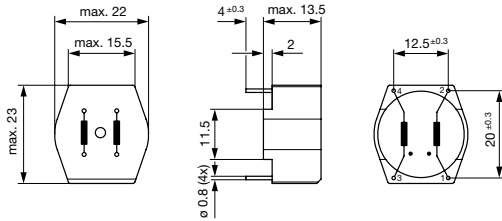
Case 2A



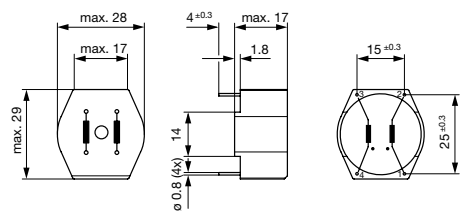
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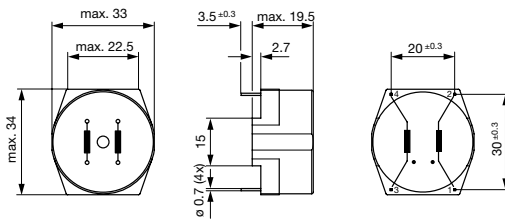
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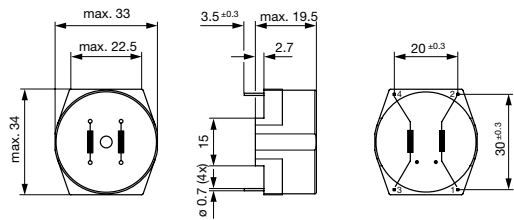
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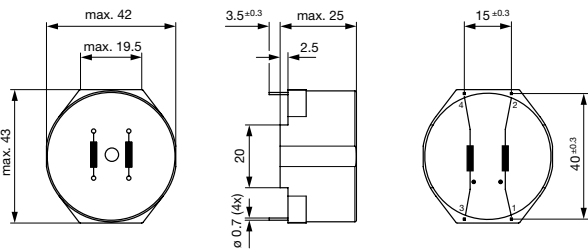
Case 2E



Case 2G

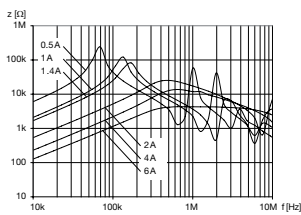


Case 2H

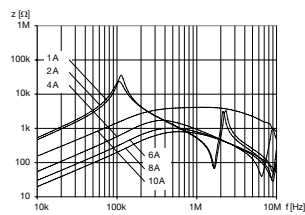


Impedance curves

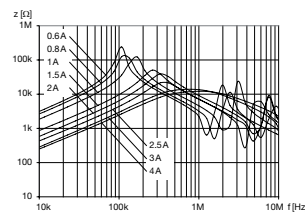
DKFP_E2xE_XXXX



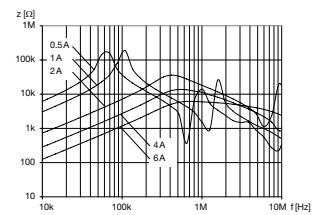
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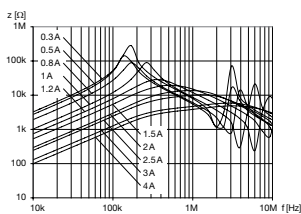
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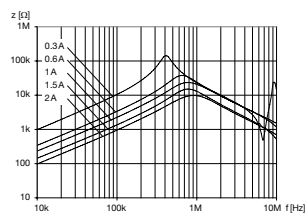
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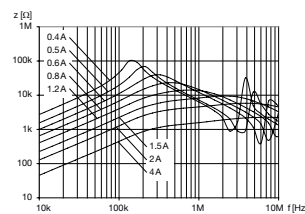
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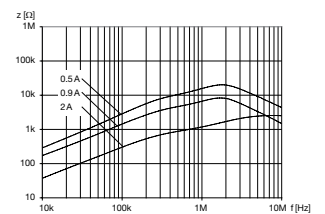
DKFP_A2xA_XXXX



DKFP_B2xB_XXXX



DKFP_6248_XXXX



All Variants

I_n [A]	L_n [mH]	R_{cu} [mΩ]	Tripped Power Dissipation [W]	f_{RES} [MHz]	Weight [g]	Housing	Packing unit [pcs.]	Order Number
0.3	12	1280	0.12	0.55	4g	1A	90	DKFP-A21A-D312
0.3	12	1280	0.12	0.55	3g	2A	72	DKFP-A22A-D312
0.3	47	1850	0.17	0.15	14g	1C	35	DKFP-C21C-D347
0.3	47	1850	0.17	0.15	11g	2C	32	DKFP-C22C-D347
0.4	39	1286	0.2	0.15	8g	1B	120	DKFP-B21B-D439
0.4	39	1286	0.2	0.15	6g	2B	45	DKFP-B22B-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	14g	1C	35	DKFP-C21C-D539
0.5	39	880	0.22	0.15	11g	2C	32	DKFP-C22C-D539
0.5	4	500	0.25	1.2	1.07g	48-2	176	DKFP-6248-D504
0.5	82	2840	0.71	0.07	34g	1E	70	DKFP-E21E-D582
0.5	82	2840	0.71	0.07	32g	2E	28	DKFP-E22E-D582
0.6	15	453	0.16	0.35	8g	1B	120	DKFP-B21B-D615
0.6	15	453	0.16	0.35	6g	2B	45	DKFP-B22B-D615
0.6	4.4	380	0.14	1.1	4g	1A	90	DKFP-A21A-D64M
0.6	4.4	380	0.14	1.1	3g	2A	72	DKFP-A22A-D64M
0.6	47	1170	0.42	0.1	25g	1D	56	DKFP-D21D-D647
0.6	47	1170	0.42	0.1	20g	2D	35	DKFP-D22D-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	14g	1C	35	DKFP-C21C-D827
0.8	27	520	0.33	0.18	11g	2C	32	DKFP-C22C-D827
0.8	39	955	0.61	0.15	25g	1D	56	DKFP-D21D-D839
0.8	39	955	0.61	0.15	20g	2D	40	DKFP-D22D-D839
0.9	2	240	0.39	1.6	1.15g	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	4g	1A	90	DKFP-A21A-0103
1	3	200	0.2	1.7	3g	2A	72	DKFP-A22A-0103
1	33	805	0.8	0.13	34g	1E	70	DKFP-E21E-0133
1	33	805	0.8	0.13	32g	2E	28	DKFP-E22E-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	14g	1C	35	DKFP-C21C-1K10
1.2	10	200	0.29	0.35	11g	2C	32	DKFP-C22C-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	34g	1E	70	DKFP-E21E-1M27
1.4	27	520	1	0.16	32g	2E	28	DKFP-E22E-1M27
1.5	1.6	94	0.21	3.1	4g	1A	90	DKFP-A21A-1N10
1.5	1.6	94	0.21	3.1	3g	2A	72	DKFP-A22A-1N10
1.5	15	232	0.52	0.26	25g	1D	56	DKFP-D21D-1N15
1.5	15	232	0.52	0.26	20g	2D	35	DKFP-D22D-1N15
1.5	3.3	122	0.28	1.8	8g	1B	120	DKFP-B21B-1N3L
1.5	3.3	122	0.28	1.8	6g	2B	45	DKFP-B22B-1N3L
1.5	6.8	150	0.34	0.5	14g	1C	35	DKFP-C21C-1N6Q
1.5	6.8	150	0.34	0.5	11g	2C	32	DKFP-C22C-1N6Q
2	0.5	50	0.4	4.5	1.07g	48-2	176	DKFP-6248-02D5
2	1.1	61	0.25	3.5	4g	1A	90	DKFP-A21A-021J
2	1.1	61	0.25	3.5	3g	2A	72	DKFP-A22A-021J

I _n [A]	L _n [mH]	R _{cu} [mΩ]	Tripped 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

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