

Magnetically Compensated Choke, compact

new



Description

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

Standards

- EN 60938
- UL 1283
- CSA 22.2 no 8

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](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [e-Shop](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#), [Detailed request for product](#), [SPICE Library](#)

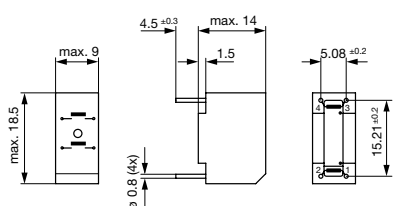
Technical Data

Rated voltage	up to 250 VAC
Rated Current	0.3 - 10 A @ Ta 40 °C
Rated inductance	0.5 - 100 mH, Tol. -30% +50%
Power Operating Frequency	DC - 1 kHz
Terminal technic	THT
Weight	1 - 55 g
Material: Housing	UL 94V-0
Sealing Compound	UL 94V-0

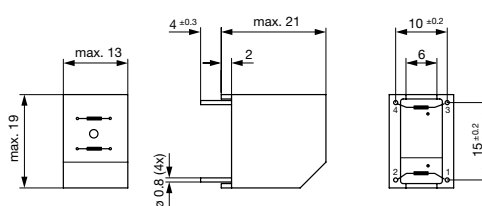
Test Voltage	1.5 kV, 50 Hz, 1 min, winding to winding
Isolation Voltage	4 kV eff., winding to ambient
Climatic Category	40/125/56 acc. to IEC 60068-1
Allowable Operation Temp.	-40 °C to 125 °C

Dimensions

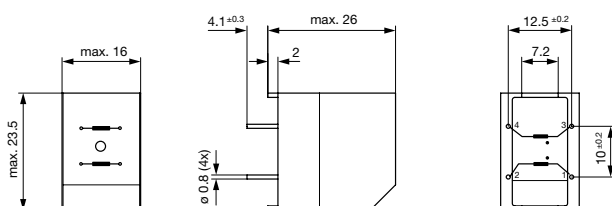
Case 1A



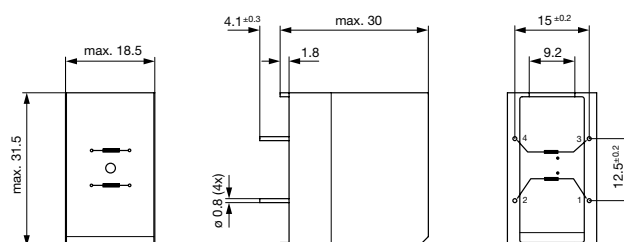
Case 1B



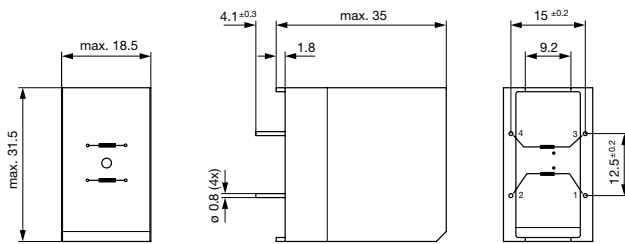
Case 1C



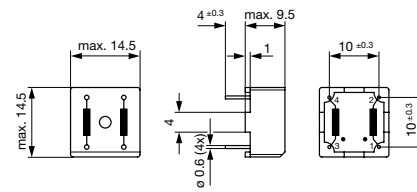
Case 1D



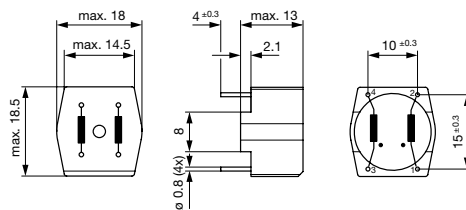
Case 1E



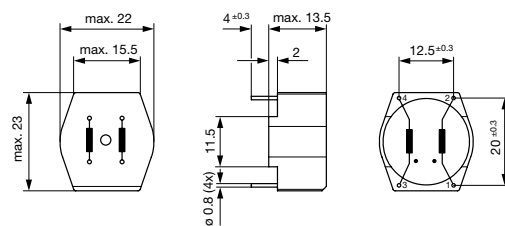
Case 2A



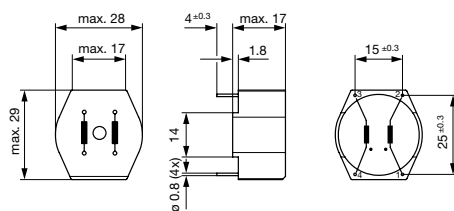
Case 2B



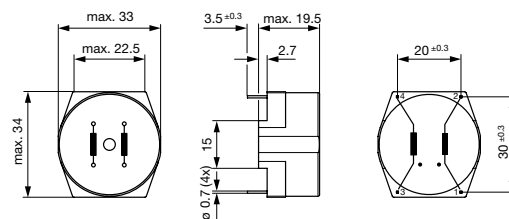
Case 2C



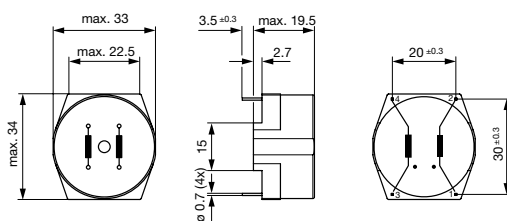
Case 2D



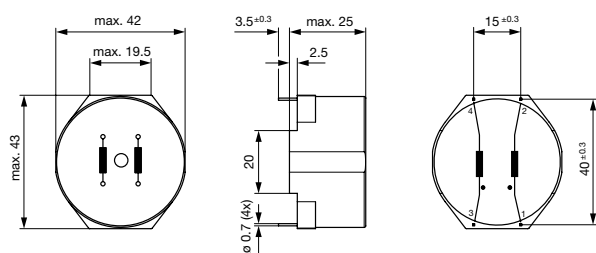
Case 2E



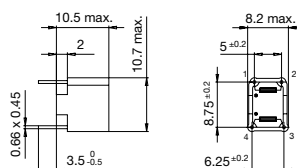
Case 2G



Case 2H

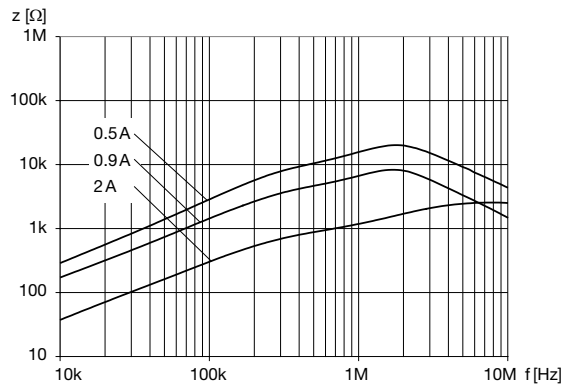


Case 48-2

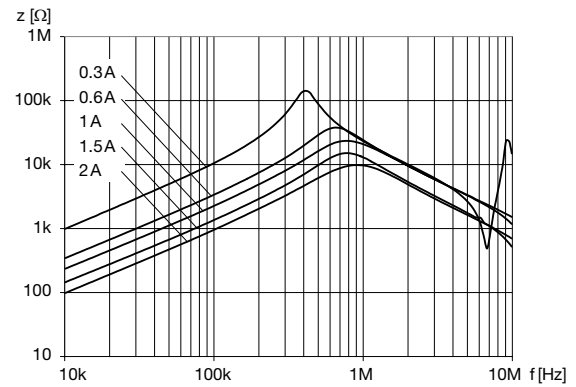


Impedance curves

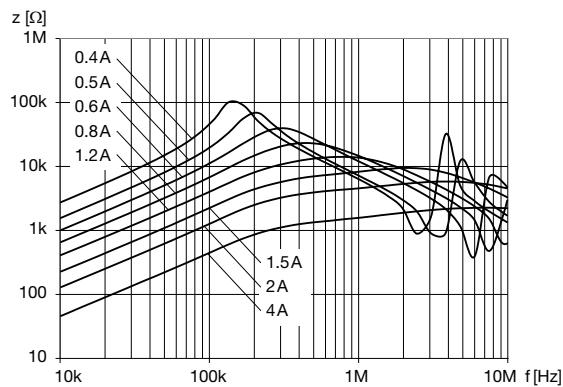
DKFP_6248_xxxx



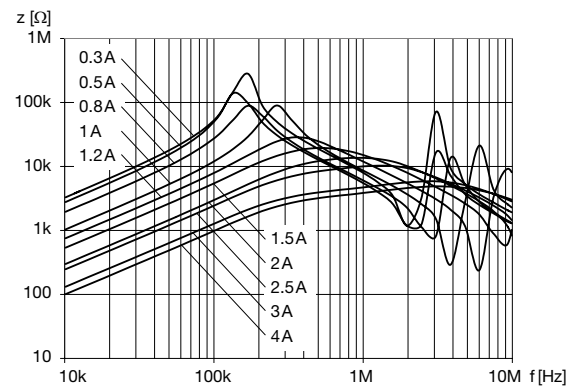
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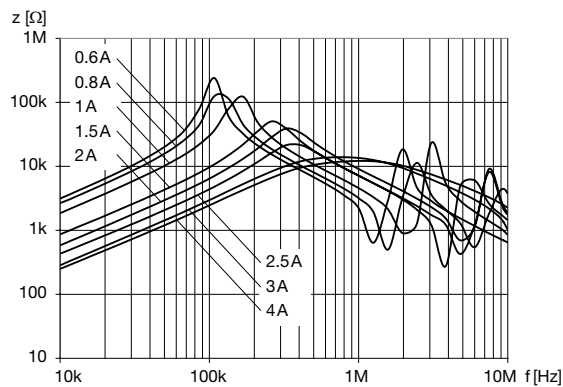
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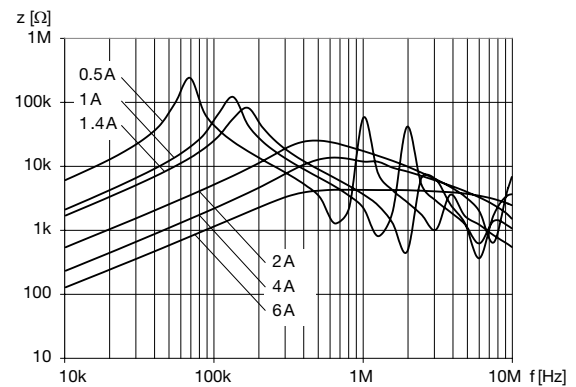
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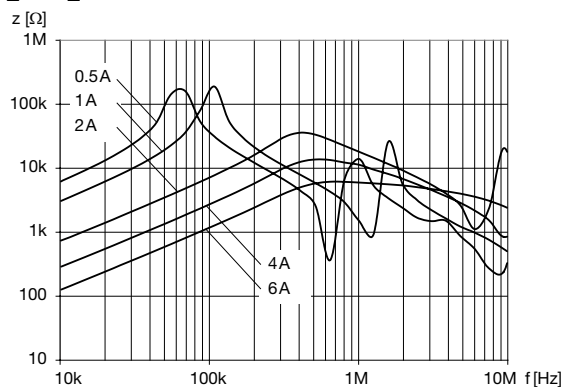
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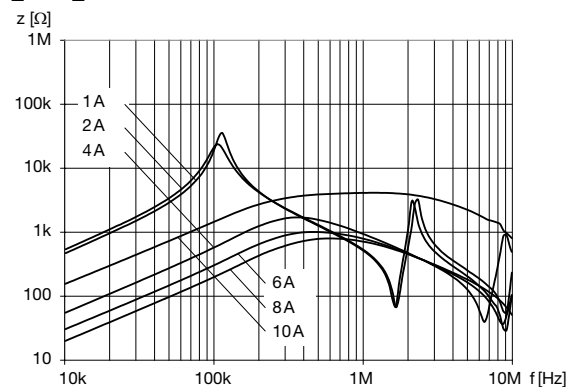
DKFP_E2xE_xxxx



DKFP_G22G_xxxx



DKFP_H22H_xxxx



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	3 g	2A	72	DKFP-A22A-D312
0.3	12	1280	0.12	0.55	4 g	1A	90	DKFP-A21A-D312
0.3	47	1850	0.17	0.15	11 g	2C	32	DKFP-C22C-D347
0.3	47	1850	0.17	0.15	14 g	1C	35	DKFP-C21C-D347
0.4	39	1286	0.2	0.15	6 g	2B	45	DKFP-B22B-D439
0.4	39	1286	0.2	0.15	8 g	1B	120	DKFP-B21B-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	11 g	2C	32	DKFP-C22C-D539
0.5	39	880	0.22	0.15	14 g	1C	35	DKFP-C21C-D539
0.5	4	500	0.25	1.2	55 g	48-2	176	DKFP-6248-D504
0.5	82	2840	0.71	0.07	32 g	2E	28	DKFP-E22E-D582
0.5	82	2840	0.71	0.07	34 g	1E	70	DKFP-E21E-D582
0.6	15	453	0.16	0.35	6 g	2B	45	DKFP-B22B-D615
0.6	15	453	0.16	0.35	8 g	1B	120	DKFP-B21B-D615
0.6	4.4	380	0.14	1.1	3 g	2A	72	DKFP-A22A-D64M
0.6	4.4	380	0.14	1.1	4 g	1A	90	DKFP-A21A-D64M
0.6	47	1170	0.42	0.1	20 g	2D	35	DKFP-D22D-D647
0.6	47	1170	0.42	0.1	25 g	1D	56	DKFP-C21C-041N
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	11 g	2C	32	DKFP-C22C-D827
0.8	27	520	0.33	0.18	14 g	1C	35	DKFP-C21C-D827
0.8	39	955	0.61	0.15	20 g	2D	40	DKFP-D22D-D839
0.8	39	955	0.61	0.15	25 g	1D	56	DKFP-D21D-D839
0.9	2	240	0.39	1.6	55 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	3 g	2A	72	DKFP-A22A-0103
1	3	200	0.2	1.7	4 g	1A	90	DKFP-A21A-0103
1	33	805	0.8	0.13	32 g	2E	28	DKFP-E22E-0133
1	33	805	0.8	0.13	34 g	1E	70	DKFP-E21E-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-D0115
1.0	27	554	0.55	0.16	25 g	1D	56	DKFP-D21D-0127
1.2	10	200	0.29	0.35	11 g	2C	32	DKFP-C22C-1K10
1.2	10	200	0.29	0.35	14 g	1C	35	DKFP-C21C-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	32 g	2E	28	DKFP-E22E-1M27
1.4	27	520	1	0.16	34 g	1E	70	DKFP-E21E-1M27
1.5	1.6	94	0.21	3.1	3 g	2A	72	DKFP-A22A-1N10
1.5	1.6	94	0.21	3.1	4 g	1A	90	DKFP-A21A-1N10
1.5	15	232	0.52	0.26	20 g	2D	35	DKFP-D22D-1N15
1.5	15	232	0.52	0.26	25 g	1D	56	DKFP-D21D-1N15
1.5	3.3	122	0.28	1.8	6 g	2B	45	DKFP-B22B-1N3L
1.5	3.3	122	0.28	1.8	8 g	1B	120	DKFP-B21B-1N3L
1.5	6.8	150	0.34	0.5	11 g	2C	32	DKFP-C22C-1N6Q
1.5	6.8	150	0.34	0.5	14 g	1C	35	DKFP-C21C-1N6Q
2	0.5	50	0.4	4.5	55 g	48-2	176	DKFP-6248-02D5
2	1.1	61	0.25	3.5	3 g	2A	72	DKFP-A22A-021J
2	1.1	61	0.25	3.5	4 g	1A	90	DKFP-A21A-021J
2	1.8	57	0.23	3	6 g	2B	45	DKFP-B22B-021Q

I _n [A]	L _n [mH]	R _{DC} [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	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	32	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	35	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	32	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