

## Snubber MKP Capacitors for Pulse Applications with Double-Sided Metallized Electrodes, Schoopage Contacts and Internal Series Connection

### Special Features

- Pulse duty construction
- Self-healing
- Particularly reliable contact-configurations: 4-lead versions and screwable plate connections
- Internal series connection from 400 VAC
- Very low dissipation factor
- Negative capacitance change versus temperature
- According to RoHS 2002/95/EC

### Typical Applications

- For high pulse and high frequency applications requiring extremely reliable contacts e.g.
- IGBT-applications

### Construction

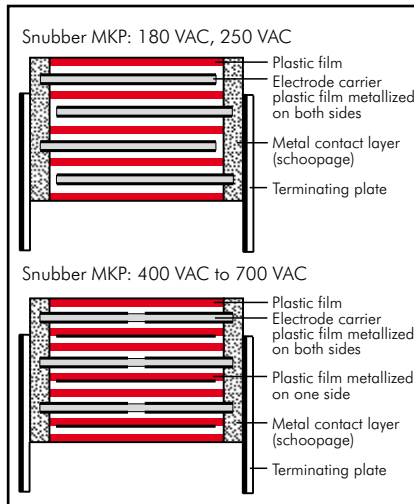
#### Dielectric:

Polypropylene (PP) film

#### Capacitor electrodes:

Double-sided metallized plastic film

#### Internal construction:



#### Encapsulation:

Solvent-resistant, flame-retardant plastic case with epoxy resin seal, UL 94 V-0

#### Terminations:

Tinned wire or plates.

#### Marking:

Colour: Red. Marking: Black. Epoxy resin seal: Red

### Electrical Data

#### Capacitance range:

0.047  $\mu$ F to 25  $\mu$ F

#### Rated voltages:

250 VDC, 400 VDC, 630 VDC, 1000 VDC, 1600 VDC, 2000 VDC, 3000 VDC

#### Capacitance tolerances:

$\pm 20\%$ ,  $\pm 10\%$ ,  $\pm 5\%$  (other tolerances are available subject to special enquiry)

#### Operating temperature range:

$-55^\circ\text{C}$  to  $+100^\circ\text{C}$

#### Climatic test category:

55/100/56 in accordance with IEC

#### Insulation resistance at $+20^\circ\text{C}$ :

$C \leq 0.33 \mu\text{F}$ :  $\geq 1 \times 10^5 \text{ M}\Omega$

(mean value:  $5 \times 10^5 \text{ M}\Omega$ )

$C > 0.33 \mu\text{F}$ :  $\geq 30\,000 \text{ sec (M}\Omega \times \mu\text{F)}$

(mean value: 100 000 sec)

Measuring voltage: 100 V/1 min.

#### Test voltage:

$L < 41.5$ :  $1.6 U_r$ , 2 sec

$L = 41.5$ :  $1.4 U_r$ , 2 sec

$L = 56$ :  $1.2 U_r$ , 2 sec

#### Dissipation factors at $+20^\circ\text{C}$ : $\tan \delta$

at f	$C \leq 0.1 \mu\text{F}$	$0.1 \mu\text{F} < C \leq 1.0 \mu\text{F}$	$C > 1.0 \mu\text{F}$
1 kHz	$\leq 3 \times 10^{-4}$	$\leq 3 \times 10^{-4}$	$\leq 3 \times 10^{-4}$
10 kHz	$\leq 4 \times 10^{-4}$	$\leq 6 \times 10^{-4}$	-
100 kHz	$\leq 15 \times 10^{-4}$	-	-

#### Maximum pulse rise time:

Capacitance $\mu\text{F}$	max. pulse rise time V/ $\mu\text{sec}$ at $T_A < 40^\circ\text{C}$						
	250 VDC	400 VDC	630 VDC	1000 VDC	1600 VDC	2000 VDC	3000 VDC
0.047 ... 0.22	500	500	900	1400	1400	1400	1400
0.33 ... 0.68	300	400	700	900	900	900	900
1.0 ... 2.2	200	200	400	400	500	500	500
2.5 ... 6.0	80	100	150	300	400	-	-
7.0 ... 10	50	70	75	-	-	-	-
15 ... 25	10	20	-	-	-	-	-

for pulses equal to the rated voltage

### Mounting Recommendation

Excessive mechanical strain, e.g. pressure or shock onto the capacitor body, is to be avoided during mounting and usage of the capacitors. When fixing the plates the screw torque is to be limited to max. 5 Nm.

For further details and graphs please refer to Technical Information.

#### Voltage derating:

A voltage derating factor of 1.35 % per K must be applied from  $+85^\circ\text{C}$  for DC voltages and from  $+75^\circ\text{C}$  for AC voltages

#### Reliability:

Operational life  $> 300\,000$  hours  
Failure rate  $< 1$  fit ( $0.5 \times U_r$  and  $40^\circ\text{C}$ )

#### Specific dissipation:

Box size* WxHxL in mm	Specific dissipation in Watts per K above the ambient temperature
19x31x56	0.068
23x34x56	0.079
27x37.5x56	0.092
33x48x56	0.122
37x54x56	0.142

\* other box sizes see page 12.

### Packing

Transportation-safe packing in cardboard boxes.

#### Packing units

L	pcs. per packing unit
18	100
26.5	100
31.5	100
41.5	100
56	50

## Continuation

### General Data

Capacitance	250 VDC/180 VAC*				400 VDC/250 VAC*				630 VDC/400 VAC*			
	W	H	L	Part number	W	H	L	Part number	W	H	L	Part number
0.1 $\mu\text{F}$					7	14	18	SNMPG03100S2	7	16.5	26.5	SNMPJ03100S4
0.15 "					8	15	18	SNMPG03150S3	8.5	18.5	26.5	SNMPJ03150S5
0.22 "	7	14	18	SNMPF03220S2	7	16.5	26.5	SNMPG03220S4	10.5	19	26.5	SNMPJ03220S6
0.33 "	8	15	18	SNMPF03330S3	8.5	18.5	26.5	SNMPG03330S5	11	21	26.5	SNMPJ03330S8
0.47 "	7	16.5	26.5	SNMPF03470S4	10.5	19	26.5	SNMPG03470S6	11	21	31.5	SNMPJ03470S9
0.68 "	8.5	18.5	26.5	SNMPF03680S5	11	21	31.5	SNMPG03680S9	15	26	31.5	SNMPJ03680SB
									13	24	41.5	SNMPJ03680SH
1.0 $\mu\text{F}$	11	21	26.5	SNMPF04100S8	13	24	31.5	SNMPG04100SA	17	29	31.5	SNMPJ04100SC
					13	24	41.5	SNMPG04100SH	15	26	41.5	SNMPJ04100SI
1.5 "	13	24	31.5	SNMPF04150SA	17	29	31.5	SNMPG04150SC	19	32	41.5	SNMPJ04150SK
	11	22	41.5	SNMPF04150SF	15	26	41.5	SNMPG04150SI				
2.0 "	15	26	31.5	SNMPF04200SB	17	29	41.5	SNMPG04200SJ	20	39.5	41.5	SNMPJ04200SL
	13	24	41.5	SNMPF04200SH								
2.2 "	15	26	31.5	SNMPF04220SB	17	29	41.5	SNMPG04220SJ	20	39.5	41.5	SNMPJ04220SL
	13	24	41.5	SNMPF04220SH								
2.5 "	17	29	31.5	SNMPF04250SC	19	32	41.5	SNMPG04250SK	24	45.5	41.5	SNMPJ04250SM
	15	26	41.5	SNMPF04250SI								
3.0 "	17	34.5	31.5	SNMPF04300SD	20	39.5	41.5	SNMPG04300SL	24	45.5	41.5	SNMPJ04300SM
	15	26	41.5	SNMPF04300SI								
3.3 "	17	34.5	31.5	SNMPF04350SD	20	39.5	41.5	SNMPG04330SL	24	45.5	41.5	SNMPJ04330SM
	15	26	41.5	SNMPF04350SI								
4.0 "	19	32	41.5	SNMPF04400SK	24	45.5	41.5	SNMPG04400SM	31	46	41.5	SNMPJ04400SN
4.7 "	19	32	41.5	SNMPF04470SK	24	45.5	41.5	SNMPG04470SM	31	46	41.5	SNMPJ04470SN
5.0 "	20	39.5	41.5	SNMPF04500SL	24	45.5	41.5	SNMPG04500SM	31	46	41.5	SNMPJ04500SN
6.0 "	20	39.5	41.5	SNMPF04600SL	31	46	41.5	SNMPG04600SN	33	48	56	SNMPJ04600SR
7.0 "	24	45.5	41.5	SNMPF04700SM	31	46	41.5	SNMPG04700SN	33	48	56	SNMPJ04700SR
8.0 "	24	45.5	41.5	SNMPF04800SM	33	48	56	SNMPG04800SR	37	54	56	SNMPJ04800SS
10.0 $\mu\text{F}$	31	46	41.5	SNMPF05100SN	33	48	56	SNMPG05100SR				
15.0 "	33	48	56	SNMPF05150SR	37	54	56	SNMPG05150SS				
20.0 "	37	54	56	SNMPF05200SS								
25.0 "	37	54	56	SNMPF05250SS								

\* AC voltage:  $f \leq 1000 \text{ Hz}$ ;  $1.4 \times U_{\text{rms}} + \text{UDC} \leq U_r$

Dims. in mm.

Ionisation inception level in isolated cases may be lower than admissible rated AC voltage.

Versions and dimensional drawings see page 107.

Part number completion:
Version codes see page 110.
Tolerance: 20 % = M
10 % = K
5 % = J
Packing: bulk = S
Lead length: none = 00

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## Continuation

### General Data

Capacitance	1000 VDC/600 VAC*				1600 VDC/650 VAC*			
	W	H	L	Part number	W	H	L	Part number
0.068 µF	7	16.5	26.5	SNMPO12680S4_____	10.5	19	26.5	SNMPT02680S6_____
0.1 µF	8.5	18.5	26.5	SNMPO13100S5_____	11	21	26.5	SNMPT03100S8_____
0.15 "	11	21	26.5	SNMPO13150S8_____	13	24	31.5	SNMPT03150SA_____
					11	22	41.5	SNMPT03150SG_____
0.22 "	11	21	31.5	SNMPO13220S9_____	15	26	31.5	SNMPT03220SB_____
					13	24	41.5	SNMPT03220SH_____
0.33 "	15	26	31.5	SNMPO13330SB_____	17	34.5	31.5	SNMPT03330SD_____
	13	24	41.5	SNMPO13330SH_____	15	26	41.5	SNMPT03330SI_____
0.47 "	17	29	31.5	SNMPO13470SC_____	19	32	41.5	SNMPT03470SK_____
	15	26	41.5	SNMPO13470SI_____				
0.68 "	17	29	41.5	SNMPO13680SJ_____	20	39.5	41.5	SNMPT03680SL_____
1.0 µF	20	39.5	41.5	SNMPO14100SL_____	24	45.5	41.5	SNMPT04100SM_____
	23	34	56	SNMPO14100SP_____				
1.5 "	24	45.5	41.5	SNMPO14150SM_____	31	46	41.5	SNMPT04150SN_____
	23	34	56	SNMPO14150SP_____				
2.0 "	31	46	41.5	SNMPO14200SN_____	33	48	56	SNMPT04200SR_____
	27	37.5	56	SNMPO14200SQ_____				
2.2 "	31	46	41.5	SNMPO14220SN_____	33	48	56	SNMPT04220SR_____
	27	37.5	56	SNMPO14220SQ_____				
2.5 "	33	48	56	SNMPO14250SR_____	37	54	56	SNMPT04250SS_____
3.0 "	33	48	56	SNMPO14300SR_____	37	54	56	SNMPT04300SS_____
3.3 "	33	48	56	SNMPO14330SR_____				
4.0 "	37	54	56	SNMPO14400SS_____				
4.7 "	37	54	56	SNMPO14470SS_____				
5.0 "	37	54	56	SNMPO14500SS_____				

Capacitance	2000 VDC/700 VAC*				3000 VDC/700 VAC*			
	W	H	L	Part number	W	H	L	Part number
0.047 µF	10.5	19	26.5	SNMPO02470S6_____	11	21	31.5	SNMPW02470S9_____
0.068 "	11	21	26.5	SNMPO02680S8_____	13	24	31.5	SNMPW02680SA_____
					11	22	41.5	SNMPW02680SG_____
0.1 µF	13	24	31.5	SNMPO03100SA_____	15	26	31.5	SNMPW03100SB_____
	11	22	41.5	SNMPO03100SG_____	13	24	41.5	SNMPW03100SH_____
0.15 "	15	26	31.5	SNMPO03150SB_____	15	26	41.5	SNMPW03150SI_____
	13	24	41.5	SNMPO03150SH_____				
0.22 "	17	34.5	31.5	SNMPO03220SD_____	19	32	41.5	SNMPW03220SK_____
	15	26	41.5	SNMPO03220SI_____				
0.33 "	19	32	41.5	SNMPO03330SK_____	19	31	56	SNMPW03330SO_____
0.47 "	20	39.5	41.5	SNMPO03470SL_____	27	37.5	56	SNMPW03470SQ_____
0.68 "	24	45.5	41.5	SNMPO03680SM_____	33	48	56	SNMPW03680SR_____
1.0 µF	33	48	56	SNMPO04100SR_____	33	48	56	SNMPW04100SR_____
1.5 "	33	48	56	SNMPO04150SR_____	37	54	56	SNMPW04150SS_____
2.0 "	37	54	56	SNMPO04200SS_____				

\* AC voltage:  $f \leq 1000 \text{ Hz}$ ;  $1.4 \times U_{\text{rms}} + U_{\text{DC}} \leq U_r$

Dims. in mm.

Ionisation inception level in isolated cases may be lower than admissible rated AC voltage.

Versions and dimensional drawings see page 107.

Rights reserved to amend design data without prior notification.

Part number completion:

Version codes see page 110.

Tolerance: 20 % = M

10 % = K

5 % = J

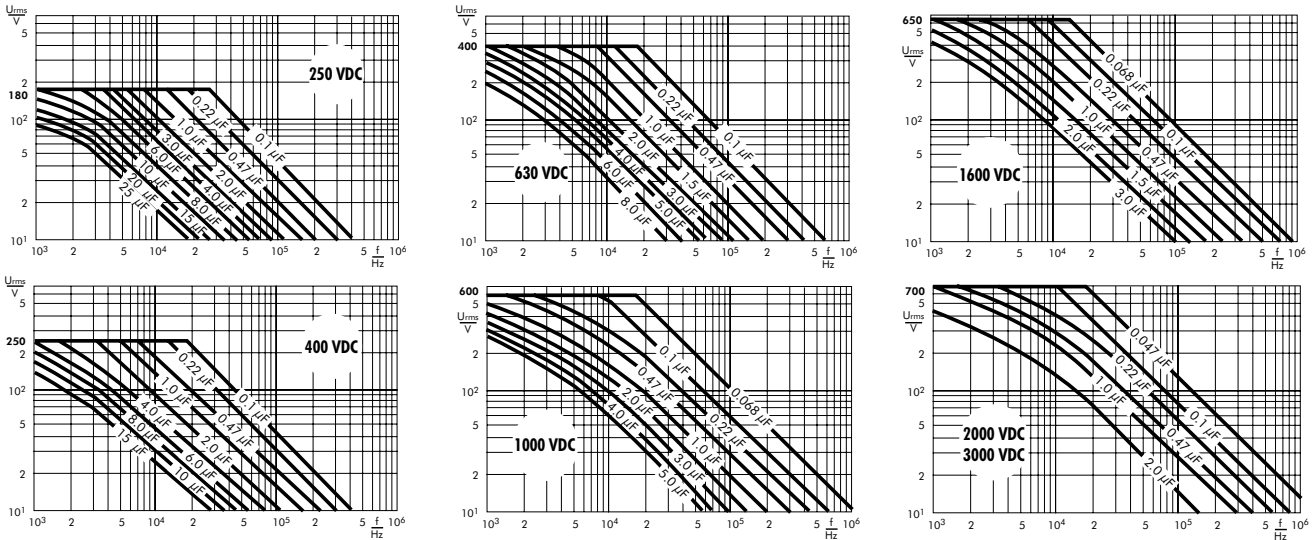
Packing: bulk = S

Lead length: none = 00

Continuation page 104

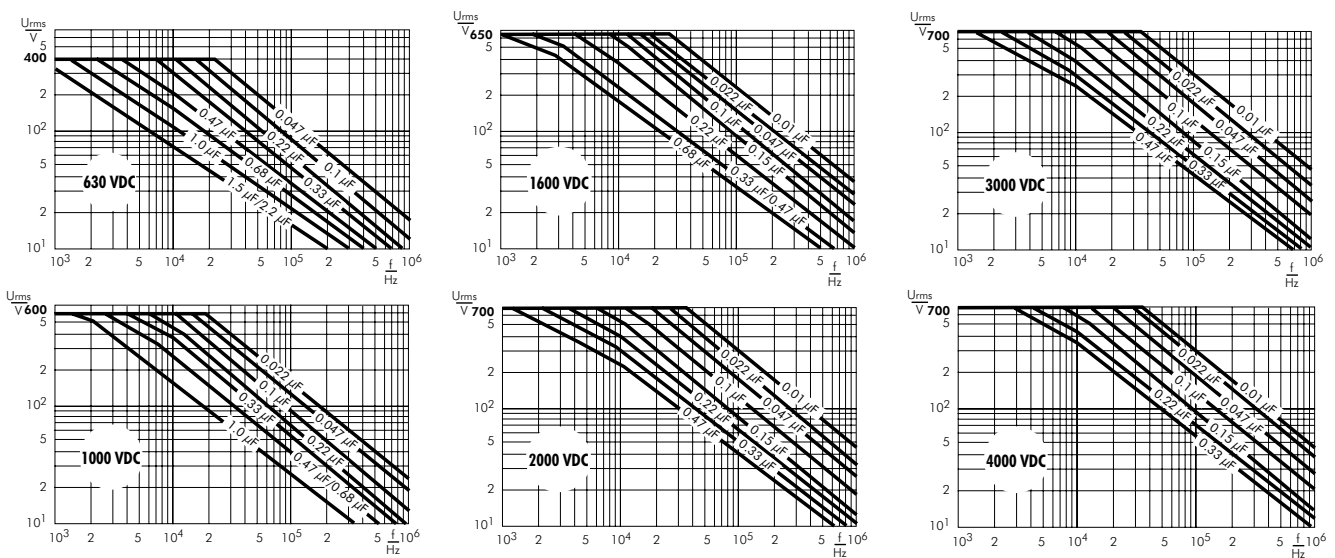
## Continuation

Permissible AC voltage in relation to frequency at 10° C internal temperature rise (general guide).



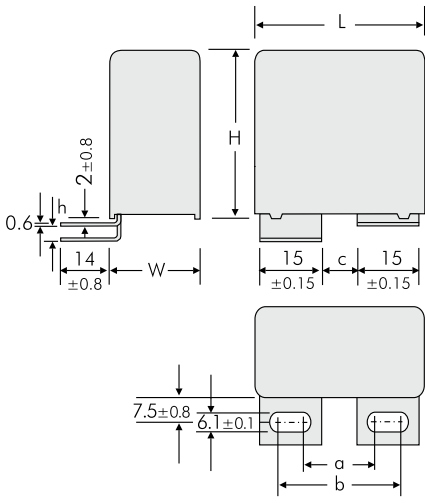
# WIMA Snubber FKP

Permissible AC voltage in relation to frequency at 10° C internal temperature rise (general guide).

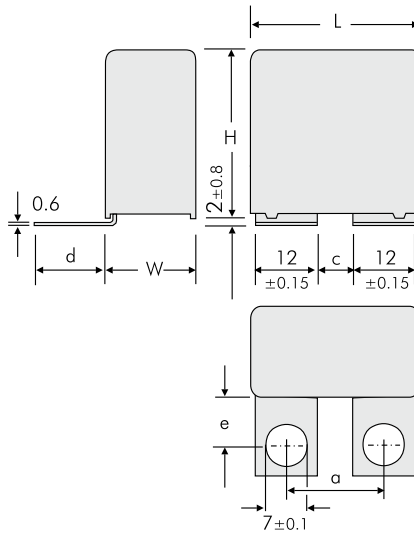


Technical information and general data see page 105.

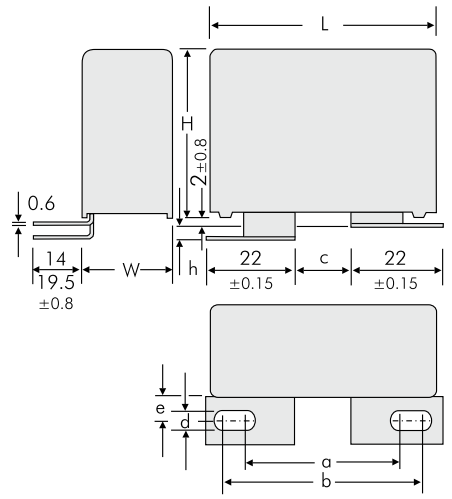
# Versions of WIMA Snubber- and DC-LINK MKP 4 Capacitors



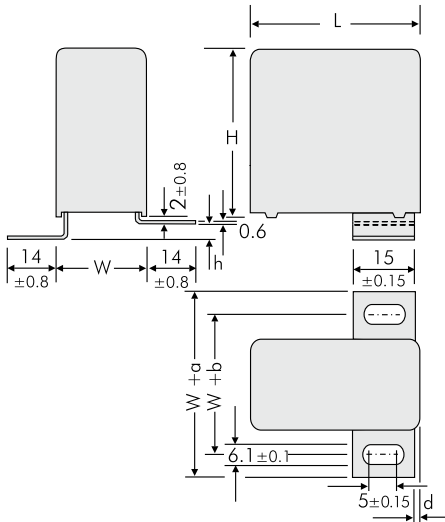
Version	L	a ±0.5	b ±0.5	c ±0.5	h ±0.8
<b>A1</b>	41.5	17.5	27.5	7.5	0
<b>A1.5</b>	41.5	17.5	27.5	7.5	3.5
<b>A1</b>	56	20	30	10	0
<b>A1.1.1</b>	56	28	38	18	0
<b>A1.4</b>	56	20	30	10	3.5
<b>A1.4.1</b>	56	28	38	18	3.5



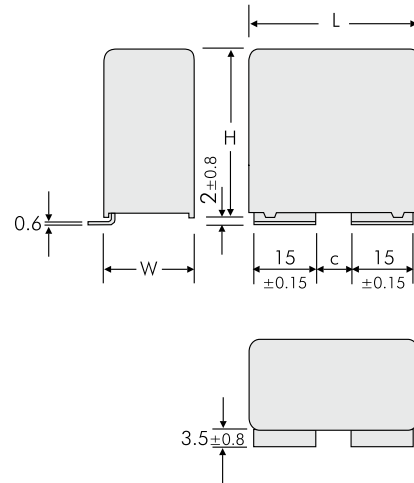
Version	L	a ±0.5	c ±0.5	d ±0.8	e ±0.8
<b>A1.6</b>	41.5	18	6	21.5	16
<b>A1.6.1</b>	41.5	22	10	18.5	13
<b>A1.6</b>	56	29	17	21.5	16



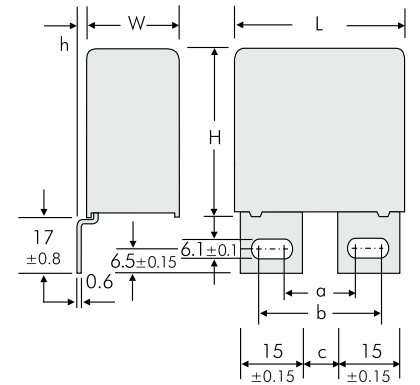
Version	L	a ±0.5	b ±0.5	c ±0.5	d ±0.1	e ±0.8	h ±0.8
<b>A2</b>	41.5	40.5	46.5	14.5	8.4	7.5	0
<b>A2.2</b>	41.5	31	37	5	8.4	7.5	3.5
<b>A2.3</b>	41.5	31	37	5	8.4	13	3.5
<b>A2.4</b>	41.5	33.5	39.5	7.5	8.4	13	3.5
<b>A2.4.1</b>	41.5	33.5	39.5	7.5	8.4	13	0
<b>A2.5</b>	41.5	29.5	39.5	5.5	6.1	7.5	3.5
<b>A2.6</b>	41.5	31.5	41.5	7.5	6.1	13	3.5
<b>A2.6.1</b>	41.5	31.5	41.5	14	6.1	13	3.5
<b>A2.6.2</b>	41.5	31.5	41.5	14	6.1	13	0
<b>A2.8</b>	41.5	40.5	46.5	14.5	8.4	7.5	3.5
<b>A2.1</b>	56	39.5	45.5	13.5	8.4	7.5	0
<b>A2.7</b>	56	39.5	45.5	13.5	8.4	7.5	3.5



Version	L	d ±1.0	h ±0.8	a ±0.8	b ±0.8	W
<b>A1.3.1</b>	31.5	2	0	47	34	19
<b>A1.3.2</b>	31.5	2	3.5	47	34	19
<b>A1.2</b>	41.5	2	3.5	47	34	19
<b>A1.8</b>	41.5	2	0	47	34	19
<b>A1.8.1</b>	41.5	2	0	56	43	28
<b>A1.8.2</b>	41.5	2	3.5	56	43	28



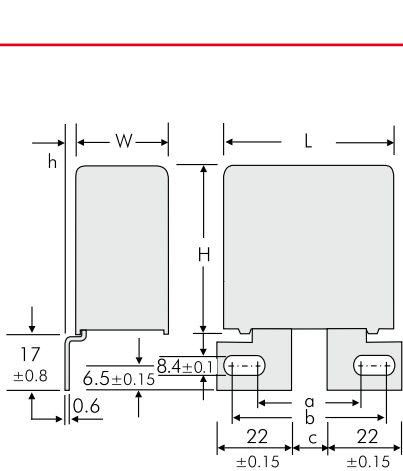
Version	L	c ±0.5
<b>A1.7</b>	41.5	7.5
<b>A1.7</b>	56	10
<b>A1.7.1</b>	56	18



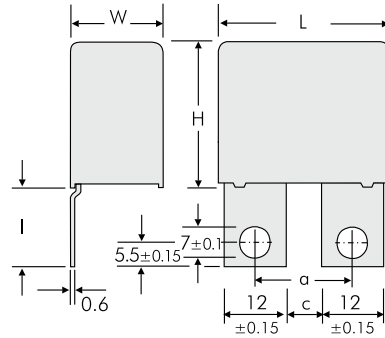
Version	L	a ±0.5	b ±0.5	c ±0.5	h ±0.8
<b>A3</b>	41.5	17.5	27.5	7.5	0
<b>A3.5</b>	41.5	17.5	27.5	7.5	3
<b>A3</b>	56	20	30	10	0
<b>A3.1</b>	56	28	38	18	0
<b>A3.5</b>	56	20	30	10	3
<b>A3.10</b>	56	28	38	18	3



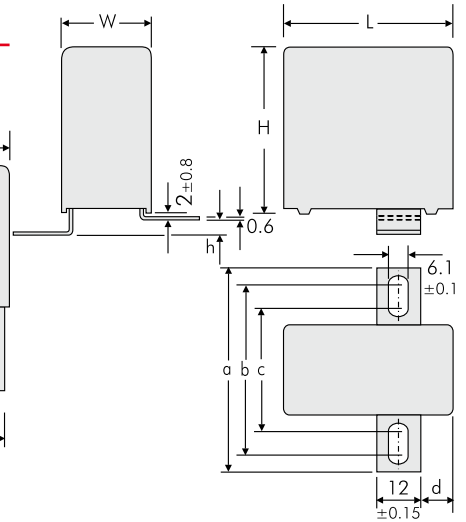
# Versions of WIMA Snubber and DC-LINK MKP 4 Capacitors



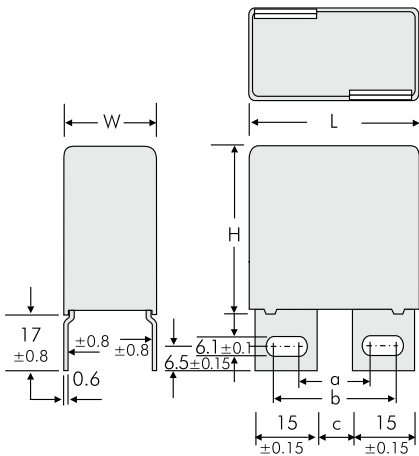
Version	L	a ±0.5	b ±0.5	c ±0.5	h ±0.8
<b>A3.9</b>	41.5	40.5	46.5	14.5	0
<b>A3.11</b>	41.5	40.5	46.5	14.5	3
<b>A3.2</b>	56	40.5	46.5	14.5	0
<b>A3.3</b>	56	40.5	46.5	14.5	3



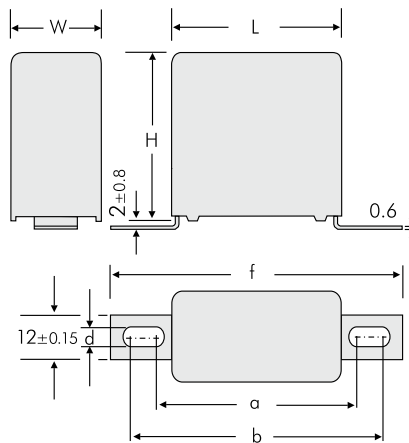
Version	L	a ±0.5	c ±0.5	l ±0.8
<b>A3.8</b>	41.5 W ≥ 17	18	6	23
<b>A3.8.1</b>	41.5 W ≥ 17	22	10	17.5



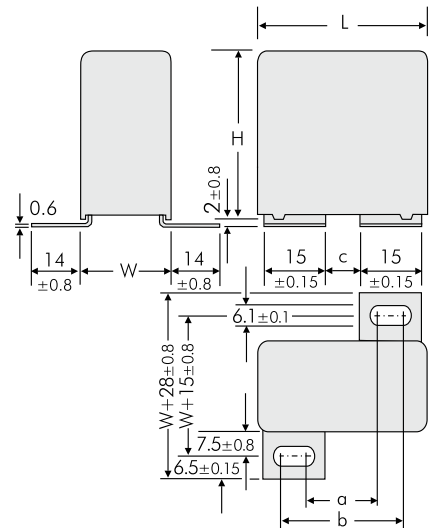
Version	L	a ±0.8	b ±0.8	c ±0.8	d ±1.0	h ±0.8	W
<b>A4.3</b>	31.5	57	47	31	1	3.5	19
<b>A4.4</b>	31.5	57	47	31	1	0	19
<b>A4.6</b>	31.5	44.6	34.6	31.6	1	3.5	19
<b>A4.8</b>	31.5	44.6	34.6	31.6	1	0	19
<b>A4.1</b>	41.5	57	47	31	6	3.5	19
<b>A4.5</b>	41.5	57	47	31	6	0	19
<b>A4.5.1</b>	41.5	63.5	53.5	37.5	6	0	28
<b>A4.5.2</b>	41.5	63.5	53.5	37.5	6	3.5	28



Version	L	a ±0.5	b ±0.5	c ±0.5
<b>A3.6</b>	41.5	17.5	27.5	7.5
<b>A3.7</b>	56	20	30	10

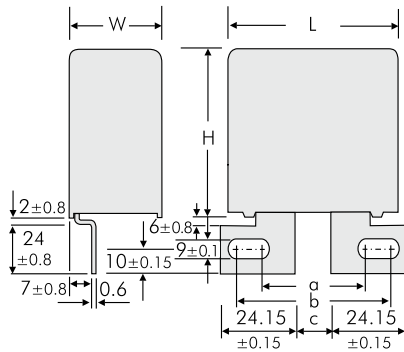


Version	L	a ±0.8	b ±0.8	f ±0.8	d ±0.1
<b>A4.9</b>	31.5 W ≥ 15	44	47	57	4.5
<b>A4.10</b>	31.5 W ≥ 15	43	59	69	6.1
<b>A4.2</b>	41.5 W ≥ 15	54	57	67	4.5
<b>A4</b>	41.5 W ≥ 15	53	69	79	6.1
<b>A4.7</b>	56	65	68	78	4.5
<b>A4</b>	56	64	80	90	6.1

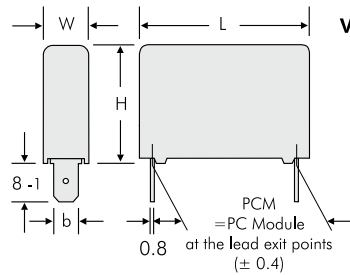


Version	L	a ±0.5	b ±0.5	c ±0.5
<b>A5</b>	41.5	17.5	27.5	7.5
<b>A5</b>	56	20	30	10

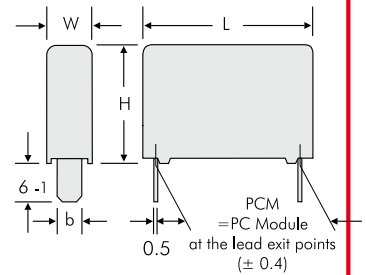
# Versions of WIMA Snubber- and DC-LINK MKP 4 Capacitors



**Version FS 6.3**  
with slip-on terminals according to DIN 46244



**Version B**

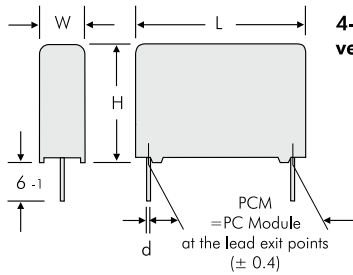


Version	L	a ±0.5	b ±0.5	c ±0.5
<b>A6</b>	56 W ≥ 23	41.5	45.5	15.5

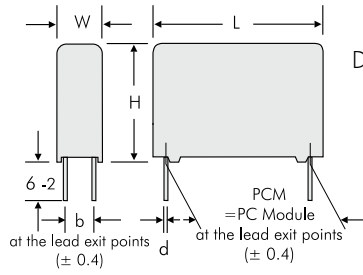
L	W	PCM	b ±0.15
26.5	≥ 11	23.5	6.3
31.5	≥ 11	28.5	6.3
41.5	≥ 11	38.5	6.3
56	≥ 11	49.5	6.3

L	PCM	b ±0.15
18	16	5
26.5	23.5	5
31.5	28.5	8
41.5	38.5	8
56	49.5	8

**2-lead version**



**4-lead version**



Dims. in mm.

PCM	d
15	0.8
22.5	0.8
27.5	0.8
38.5	1.2
49.5	1.2

W	H	L	PCM	b	d
10.5	19	26.5	22.5	5	0.8
10.5	20.5	26.5	22.5	5	0.8
11	21	26.5	22.5	5	0.8
11	21	31.5	27.5	5	0.8
13	24	31.5	27.5	7.5	0.8
15	26	31.5	27.5	7.5	0.8
17	29	31.5	27.5	10	0.8
19	30	31.5	27.5	10	0.8
17	34.5	31.5	27.5	10	0.8
20	39.5	31.5	27.5	12.5	0.8
22	43.5	31.5	27.5	12.5	0.8
11	22	41.5	37.5	5	1
13	24	41.5	37.5	7.5	1
15	26	41.5	37.5	7.5	1
17	29	41.5	37.5	10	1
19	32	41.5	37.5	10	1
20	39.5	41.5	37.5	12.5	1
24	45.5	41.5	37.5	12.5	1
31	46	41.5	37.5	20	1
19	31	56	48.5	12.5	1
23	34	56	48.5	15	1
27	37.5	56	48.5	15	1
33	48	56	48.5	20	1
37	54	56	48.5	20	1

Additional special versions can be realized. Please contact us with your specific needs.



## Versions of WIMA Snubber and DC-LINK MKP 4 Capacitors

Version code		D2	D4	B5	B8	1A	1B	1C	1D	1E	1F	1G	1H	1I	1J	1K	1L	1M	1N	1O	2A	2B	2C	2D	2E	2H	2I	2J	2K	2L	2M	3A	3C	3D	3E	3G	3I	3J	3K	3L	3N	3O	3P										
WxHxL	Size Code	2-lead	4-lead	B5	B8	A1	A1.1	A1.2*	A1.3.1	A1.3.2	A1.4	A1.4.1	A1.5	A1.6	A1.6.1	A1.7	A1.7.1	A1.8*	A1.8.1	A1.8.2	A2	A2.1	A2.2	A2.3	A2.4	A2.5	A2.6	A2.6.1	A2.6.2	A2.7	A2.8	A3	A3.1	A3.2	A3.3	A3.5	A3.6	A3.7	A3.8	A3.8.1	A3.9	A3.10	A3.11										
7x14x18	S2																																																				
8x15x18	S3																																																				
7x16.5x26.5	S4																																																				
8.5x18.5x26.5	S5																																																				
10.5x19x26.5	S6																																																				
10.5x20.5x26.5	S7																																																				
11x21x26.5	S8																																																				
11x21x31.5	S9																																																				
13x24x31.5	SA																																																				
15x26x31.5	SB																																																				
17x29x31.5	SC																																																				
19x30x31.5	ST																																																				
17x34.5x31.5	SD																																																				
11x22x41.5	SG																																																				
13x24x41.5	SH																																																				
15x26x41.5	SI																																																				
17x29x41.5	SJ																																																				
19x32x41.5	SK																																																				
20x39.5x41.5	SL																																																				
24x45.5x41.5	SM																																																				
31x46x41.5	SN																																																				
19x31x56	SO																																																				
23x34x56	SP																																																				
27x37.5x56	SQ																																																				
33x48x56	SR																																																				
37x54x56	SS																																																				

Version code		4A	4B	4C	4D	4E	4F	4G	4H	4I	4J	4K	4L	4M	5A	6A	FS 6.3
WxHxL	Size code	A4	A4.1*	A4.2	A4.3*	A4.4*	A4.5*	A4.5.1	A4.5.2	A4.6*	A4.7	A4.8*	A4.9	A4.10	A5	A6	FS 6.3
11x21x26.5	S8																
11x21x31.5	S9																
13x24x31.5	SA																
15x26x31.5	SB																
17x29x31.5	SC																
19x30x31.5	ST																
17x34.5x31.5	SD																
11x22x41.5	SG																
13x24x41.5	SH																
15x26x41.5	SI																
17x29x41.5	SJ																
19x32x41.5	SK																
20x39.5x41.5	SL																
24x45.5x41.5	SM																
31x46x41.5	SN																
19x31x56	SO																
23x34x56	SP																
27x37.5x56	SQ																
33x48x56	SR																
37x54x56	SS																

Possible connecting respective plate versions - depending on box size.

\* on request





# WIMA Part Number System

A WIMA part number consists of 18 digits and is composed as follows:

- Field 1 - 4: Type description
- Field 5 - 6: Rated voltage
- Field 7 - 10: Capacitance
- Field 11 - 12: Size and PCM
- Field 13 - 14: Special features (e.g. Snubber versions)
- Field 15: Capacitance tolerance
- Field 16: Packing
- Field 17 - 18: Lead length (untaped)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
<b>M</b>	<b>K</b>	<b>S</b>	<b>2</b>	<b>C</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>A</b>	<b>0</b>	<b>0</b>	<b>M</b>	<b>S</b>	<b>S</b>	<b>D</b>
MKS 2				63 VDC		0.01 µF			2.5x6.5x7.2		-		20%	bulk	6-2		

<p><b>Type description:</b></p> <p>SMD-PET = SMDT SMD-PEN = SMDN SMD-PPS = SMDI FKP 02 = FKPO MKS 02 = MKSO FKS 2 = FKS2 FKM 2 = FKM2 FKP 2 = FKP2 MKS 2 = MKS2 MKP 2 = MKP2 MKI 2 = MKI2 FKS 3 = FKS3 FKM 3 = FKM3 FKP 3 = FKP3 MKS 4 = MKS4 MKM 4 = MKM4 MKP 4 = MKP4 MKP 10 = MKP1 FKP 4 = FKP4 FKP 1 = FKP1 MKP-X2 = MKX2 MKP-X2 R = MKXR MKP-Y2 = MKY2 MP 3-X2 = MPX2 MP 3-X1 = MPX1 MP 3-Y2 = MPY2 MP 3R-Y2 = MPRY Snubber MKP = SNMP Snubber FKP = SNFP GTO MKP = GTOM DC-LINK MKP 4 = DCP4 DC-LINK MKP C = DCPC DC-LINK HC = DCH_ SuperCap C = SCSC SuperCap MC = SCMC SuperCap R = SCSR SuperCap MR = SCMR</p>	<p><b>Rated voltage:</b></p> <p>16 VDC = A0 2.5 VDC = A1 4 VDC = A2 14 VDC = A3 28 VDC = A4 40 VDC = A5 5 VDC = A6 50 VDC = B0 63 VDC = C0 100 VDC = D0 160 VDC = E0 250 VDC = F0 400 VDC = G0 450 VDC = H0 600 VDC = I0 630 VDC = J0 700 VDC = K0 800 VDC = L0 850 VDC = M0 900 VDC = N0 1000 VDC = O1 1100 VDC = P0 1200 VDC = Q0 1250 VDC = R0 1500 VDC = S0 1600 VDC = T0 2000 VDC = U0 2500 VDC = V0 3000 VDC = W0 4000 VDC = X0 6000 VDC = Y0 250 VAC = 0W 275 VAC = 1W 300 VAC = 2W 400 VAC = 3W 440 VAC = 4W 500 VAC = 5W</p>	<p><b>Capacitance:</b></p> <p>22 pF = 0022 47 pF = 0047 100 pF = 0100 150 pF = 0150 220 pF = 0220 330 pF = 0330 470 pF = 0470 680 pF = 0680 1000 pF = 1100 1500 pF = 1150 2200 pF = 1220 3300 pF = 1330 4700 pF = 1470 6800 pF = 1680 0.01 µF = 2100 0.022 µF = 2220 0.047 µF = 2470 0.1 µF = 3100 0.22 µF = 3220 0.47 µF = 3470 1 µF = 4100 2.2 µF = 4220 4.7 µF = 4470 10 µF = 5100 22 µF = 5220 47 µF = 5470 100 µF = 6100 220 µF = 6220 1 F = A010 2.5 F = A025 50 F = A500 100 F = B100 110 F = B110 600 F = B600 1200 F = C120 ...</p>	<p><b>Size:</b></p> <p>4.8x3.3x3 Size 1812 = X1 4.8x3.3x4 Size 1812 = X2 5.7x5.1x3.5 Size 2220 = Y1 5.7x5.1x4.5 Size 2220 = Y2 7.2x6.1x3 Size 2824 = T1 7.2x6.1x5 Size 2824 = T2 10.2x7.6x5 Size 4030 = K1 12.7x10.2x6 Size 5040 = V1 15.3x13.7x7 Size 6054 = Q1 2.5x7x4.6 PCM 2.5 = 0B 3x7.5x4.6 PCM 2.5 = 0C 2.5x6.5x7.2 PCM 5 = 1A 3x7.5x7.2 PCM 5 = 1B 2.5x7x10 PCM 7.5 = 2A 3x8.5x10 PCM 7.5 = 2B 3x9x13 PCM 10 = 3A 4x9x13 PCM 10 = 3C 5x11x18 PCM 15 = 4B 6x12.5x18 PCM 15 = 4C 5x14x26.5 PCM 22.5 = 5A 6x15x26.5 PCM 22.5 = 5B 9x19x31.5 PCM 27.5 = 6A 11x21x31.5 PCM 27.5 = 6B 9x19x41.5 PCM 37.5 = 7A 11x22x41.5 PCM 37.5 = 7B 94x49x182 DCH_ = H0 94x77x182 DCH_ = H1 ...</p>	<p><b>Tolerance:</b></p> <p>20% = M 10% = K 5% = J 2.5% = H 1% = E ...</p> <p><b>Packing:</b></p> <p>AMMO H16.5 340x340 = A AMMO H16.5 490x370 = B AMMO H18.5 340x340 = C AMMO H18.5 490x370 = D REEL H16.5 360 = F REEL H16.5 500 = H REEL H18.5 360 = I REEL H18.5 500 = J ROLL H16.5 = N ROLL H18.5 = O BLISTER W12 180 = P BLISTER W12 330 = Q BLISTER W16 330 = R BLISTER W24 330 = T Bulk Mini = M Bulk Standard = S Bulk Maxi = G TPS Mini = X TPS Standard = Y ...</p>	<p><b>Special features:</b></p> <p>Standard = 00 Version A1 = 1A Version A1.1.1 = 1B Version A1.2 = 1C ...</p> <p><b>Lead length (untaped)</b></p> <p>3.5 ±0.5 = C9 6-2 = SD 16-1 = P4 ...</p>
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The data on this page is not complete and serves only to explain the part number system. Part number information is listed on the pages of the respective WIMA range.