

## 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-pin 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

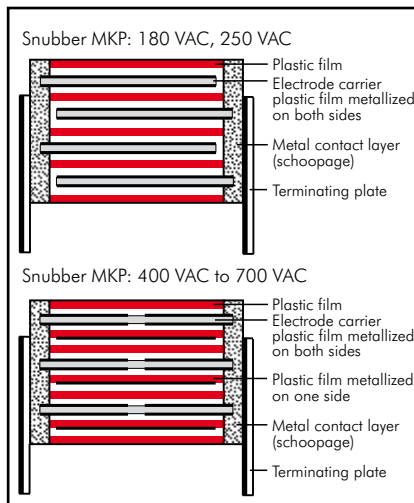
#### Dielectric:

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 10.

### 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	SNMPG031004D	7	16.5	26.5	SNMPJ031005D
0.15 "					8	15	18	SNMPG031504F	8.5	18.5	26.5	SNMPJ031505F
0.22 "	7	14	18	SNMPF032204D	7	16.5	26.5	SNMPG032205D	10.5	19	26.5	SNMPJ032205G
0.33 "	8	15	18	SNMPF033304F	8.5	18.5	26.5	SNMPG033305F	11	21	26.5	SNMPJ033305I
0.47 "	7	16.5	26.5	SNMPF034705D	10.5	19	26.5	SNMPG034705G	11	21	31.5	SNMPJ034706B
0.68 "	8.5	18.5	26.5	SNMPF036805F	11	21	31.5	SNMPG036806B	15	26	31.5	SNMPJ036806F
									13	24	41.5	SNMPJ036807C
1.0 $\mu\text{F}$	11	21	26.5	SNMPF041005I	13	24	31.5	SNMPG041006D	17	29	31.5	SNMPJ041006G
					13	24	41.5	SNMPG041007C	15	26	41.5	SNMPJ041007D
1.5 "	13	24	31.5	SNMPF041506D	17	29	31.5	SNMPG041506G	19	32	41.5	SNMPJ041507F
	11	22	41.5	SNMPF041507B	15	26	41.5	SNMPG041507D				
2.0 "	15	26	31.5	SNMPF042006F	17	29	41.5	SNMPG042007E	20	39.5	41.5	SNMPJ042007G
	13	24	41.5	SNMPF042007C								
2.2 "	15	26	31.5	SNMPF042206F	17	29	41.5	SNMPG042207E	20	39.5	41.5	SNMPJ042207G
	13	24	41.5	SNMPF042207C								
2.5 "	17	29	31.5	SNMPF042506G	19	32	41.5	SNMPG042507F	24	45.5	41.5	SNMPJ042507H
	15	26	41.5	SNMPF042507D								
3.0 "	17	34.5	31.5	SNMPF043006I	20	39.5	41.5	SNMPG043007G	24	45.5	41.5	SNMPJ043007H
	15	26	41.5	SNMPF043007D								
3.3 "	17	34.5	31.5	SNMPF043306I	20	39.5	41.5	SNMPG043307G	24	45.5	41.5	SNMPJ043307H
	15	26	41.5	SNMPF043307D								
4.0 "	19	32	41.5	SNMPF044007F	24	45.5	41.5	SNMPG044007H	31	46	41.5	SNMPJ044007I
4.7 "	19	32	41.5	SNMPF044707F	24	45.5	41.5	SNMPG044707H	31	46	41.5	SNMPJ044707I
5.0 "	20	39.5	41.5	SNMPF045007G	24	45.5	41.5	SNMPG045007H	31	46	41.5	SNMPJ045007I
6.0 "	20	39.5	41.5	SNMPF046007G	31	46	41.5	SNMPG046007I	33	48	56	SNMPJ046008J
7.0 "	24	45.5	41.5	SNMPF047007H	31	46	41.5	SNMPG047007I	33	48	56	SNMPJ047008J
8.0 "	24	45.5	41.5	SNMPF048007H	33	48	56	SNMPG048008J	37	54	56	SNMPJ048008L
10.0 $\mu\text{F}$	31	46	41.5	SNMPF051007I	33	48	56	SNMPG051008J				
15.0 "	33	48	56	SNMPF051508J	37	54	56	SNMPG051508L				
20.0 "	37	54	56	SNMPF052008L								
25.0 "	37	54	56	SNMPF052508L								

\* 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 91.

Part number completion:

Version codes see page 94.

Tolerance: 20 % = M

10 % = K

5 % = J

Packing: bulk = S

Pin 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	SNMPO126805D_____	10.5	19	26.5	SNMPT026805G_____
0.1 µF	8.5	18.5	26.5	SNMPO131005F_____	11	21	26.5	SNMPT031005I_____
0.15 "	11	21	26.5	SNMPO131505I_____	13	24	31.5	SNMPT031506D_____
0.22 "	11	21	31.5	SNMPO132206B_____	11	22	41.5	SNMPT031507B_____
					15	26	31.5	SNMPT032206F_____
0.33 "	15	26	31.5	SNMPO133306F_____	13	24	41.5	SNMPT032207C_____
	13	24	41.5	SNMPO133307C_____	17	34.5	31.5	SNMPT033306I_____
0.47 "	17	29	31.5	SNMPO134706G_____	15	26	41.5	SNMPT033307D_____
	15	26	41.5	SNMPO134707D_____	19	32	41.5	SNMPT034707F_____
0.68 "	17	29	41.5	SNMPO136807E_____	20	39.5	41.5	SNMPT036807G_____
1.0 µF	20	39.5	41.5	SNMPO141007G_____	24	45.5	41.5	SNMPT041007H_____
	23	34	56	SNMPO141008E_____	31	46	41.5	SNMPT041507I_____
1.5 "	24	45.5	41.5	SNMPO141507H_____				
	23	34	56	SNMPO141508E_____	33	48	56	SNMPT042008J_____
2.0 "	31	46	41.5	SNMPO142007I_____				
	27	37.5	56	SNMPO142008H_____	33	48	56	SNMPT042208J_____
2.2 "	31	46	41.5	SNMPO142207I_____				
	27	37.5	56	SNMPO142208H_____	37	54	56	SNMPT042508L_____
2.5 "	33	48	56	SNMPO142508J_____				
	3.0 "	33	48	56	SNMPO143008J_____	37	54	56
3.3 "	33	48	56	SNMPO143308J_____				
4.0 "	37	54	56	SNMPO144008L_____	37	54	56	SNMPT043008L_____
4.7 "	37	54	56	SNMPO144708L_____				
5.0 "	37	54	56	SNMPO145008L_____				

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	SNMPO024705G_____	11	21	31.5	SNMPW024706B_____
0.068 "	11	21	26.5	SNMPO026805I_____	13	24	31.5	SNMPW026806D_____
0.1 µF	11	22	41.5	SNMPO031007B_____	11	22	41.5	SNMPW026807B_____
					13	24	31.5	SNMPW031006F_____
0.15 "	15	26	31.5	SNMPO031506F_____	13	24	41.5	SNMPW031007C_____
	13	24	41.5	SNMPO031507C_____	15	26	41.5	SNMPW031507D_____
0.22 "	17	34.5	31.5	SNMPO032206I_____	19	32	41.5	SNMPW032207F_____
	15	26	41.5	SNMPO032207D_____				
0.33 "	19	32	41.5	SNMPO033307F_____	19	31	56	SNMPW033308D_____
	20	39.5	41.5	SNMPO034707G_____	27	37.5	56	SNMPW034708H_____
0.68 "	24	45.5	41.5	SNMPO036807H_____	33	48	56	SNMPW036808J_____
1.0 µF	33	48	56	SNMPO041008J_____	33	48	56	SNMPW041008J_____
1.5 "	33	48	56	SNMPO041508J_____	37	54	56	SNMPW041508L_____
2.0 "	37	54	56	SNMPO042008L_____				

\* 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 91.

Rights reserved to amend design data without prior notification.

Part number completion:

Version codes see page 94.

Tolerance: 20 % = M

10 % = K

5 % = J

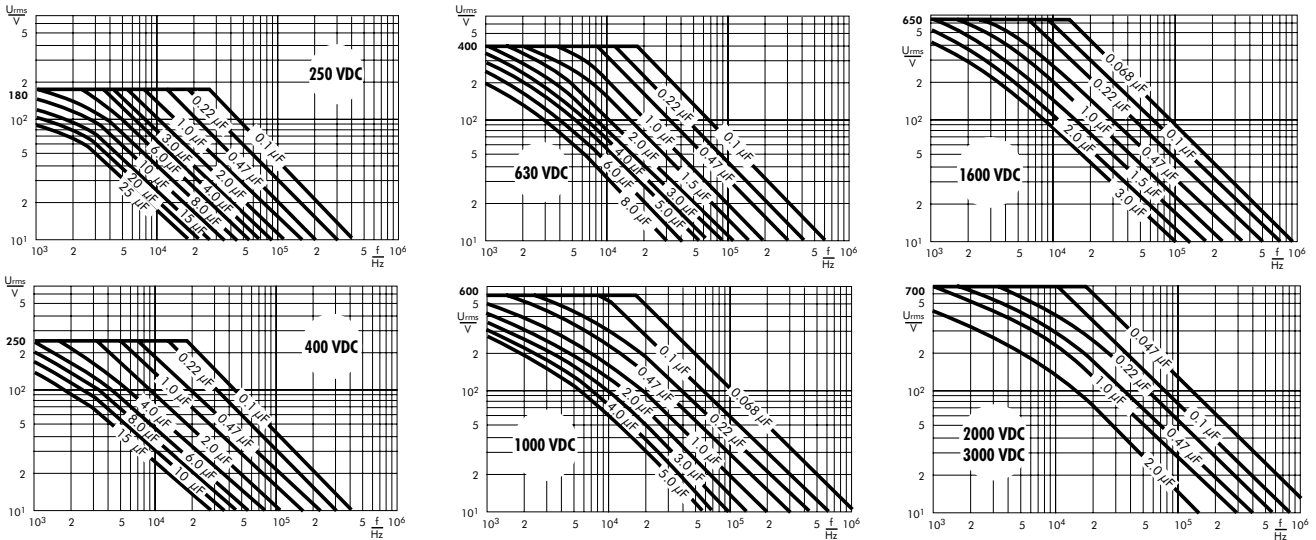
Packing: bulk = S

Pin length: none = 00

Continuation page 88

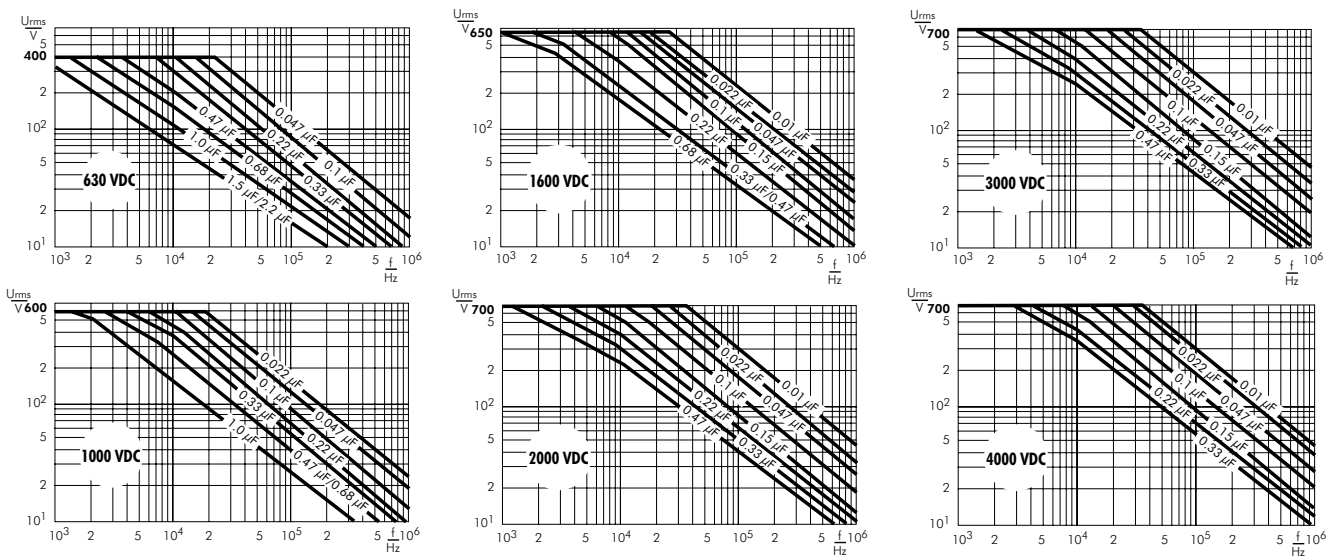
## Continuation

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



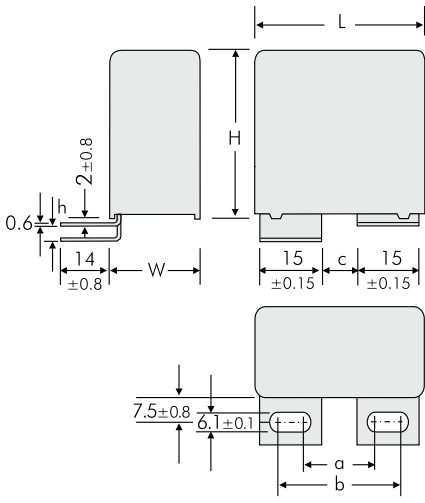
# WIMA Snubber FKP

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

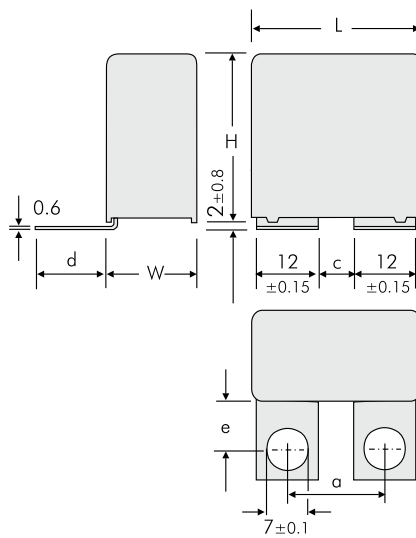


Technical information and general data see page 89.

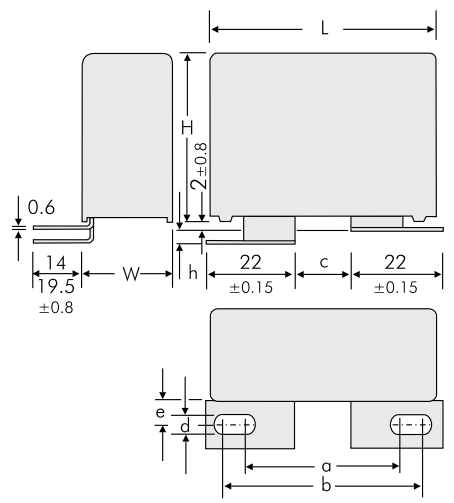
# Versions of WIMA Snubber-Capacitors



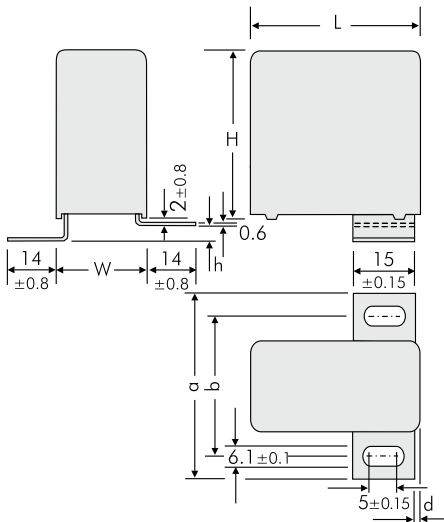
Version	L	a ±0.5	b ±0.5	c ±0.5	h ±0.8
<b>A1</b>	41.5	17.5	27.5	7.5	0
<b>A1.5</b>	41.5	17.5	27.5	7.5	3.5
<b>A1</b>	56	20	30	10	0
<b>A1.1.1</b>	56	28	38	18	0
<b>A1.4</b>	56	20	30	10	3.5
<b>A1.4.1</b>	56	28	38	18	3.5



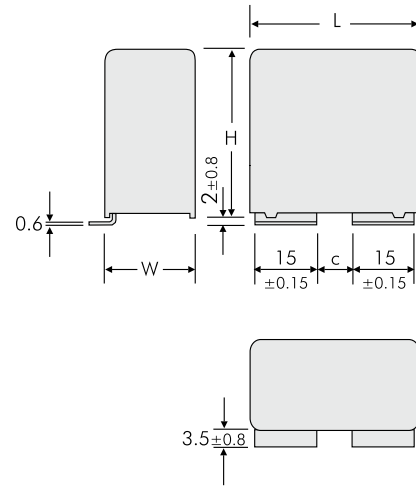
Version	L	a ±0.5	c ±0.5	d ±0.8	e ±0.8
<b>A1.6</b>	41.5	18	6	21.5	16
<b>A1.6.1</b>	41.5	22	10	18.5	13
<b>A1.6</b>	56	29	17	21.5	16



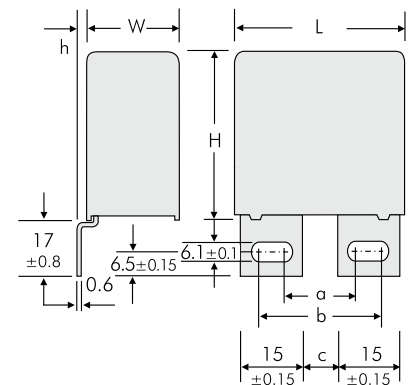
Version	L	a ±0.5	b ±0.5	c ±0.5	d ±0.1	e ±0.8	h ±0.8
<b>A2</b>	41.5	40.5	46.5	14.5	8.4	7.5	0
<b>A2.2</b>	41.5	31	37	5	8.4	7.5	3.5
<b>A2.3</b>	41.5	31	37	5	8.4	13	3.5
<b>A2.4</b>	41.5	33.5	39.5	7.5	8.4	13	3.5
<b>A2.4.1</b>	41.5	33.5	39.5	7.5	8.4	13	0
<b>A2.5</b>	41.5	29.5	39.5	5.5	6.1	7.5	3.5
<b>A2.6</b>	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>A1.8</b>	41.5	2	0	47	34	19

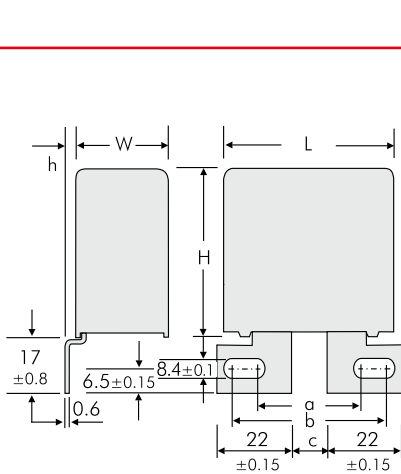


Version	L	c ±0.5
<b>A1.7</b>	41.5	7.5
<b>A1.7</b>	56	10
<b>A1.7.1</b>	56	18

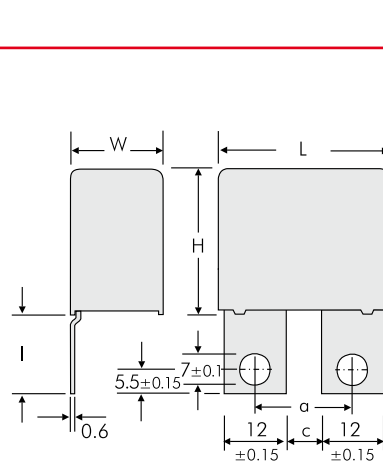


Version	L	a ±0.5	b ±0.5	c ±0.5	h ±0.8
<b>A3</b>	41.5	17.5	27.5	7.5	0
<b>A3.5</b>	41.5	17.5	27.5	7.5	3
<b>A3</b>	56	20	30	10	0
<b>A3.1</b>	56	28	38	18	0
<b>A3.5</b>	56	20	30	10	3
<b>A3.10</b>	56	28	38	18	3

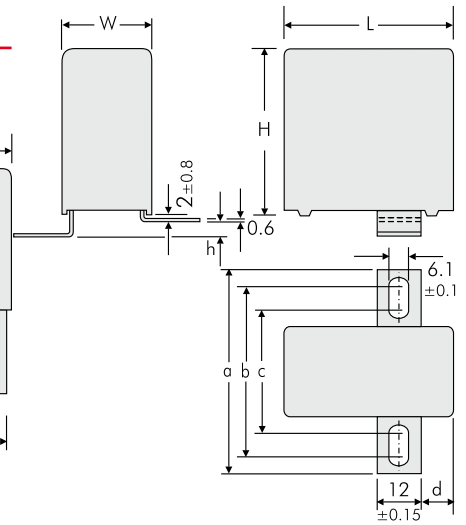
# Versions of WIMA Snubber-Capacitors



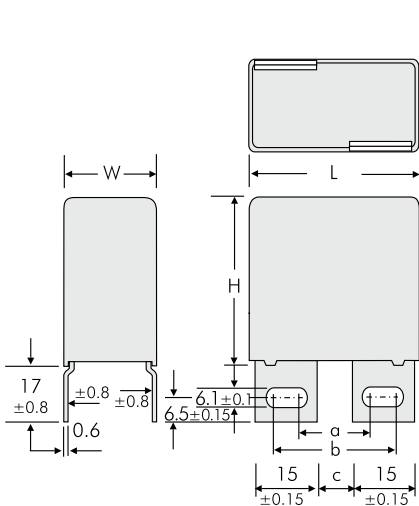
Version	L	a ±0.5	b ±0.5	c ±0.5	h ±0.8
<b>A3.9</b>	41.5	40.5	46.5	14.5	0
<b>A3.11</b>	41.5	40.5	46.5	14.5	3
<b>A3.2</b>	56	40.5	46.5	14.5	0
<b>A3.3</b>	56	40.5	46.5	14.5	3



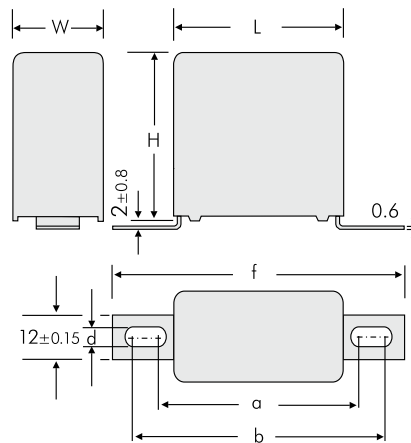
Version	L	a ±0.5	c ±0.5	l ±0.8
<b>A3.8</b>	41.5 W ≥ 17	18	6	23
<b>A3.8.1</b>	41.5 W ≥ 17	22	10	17.5



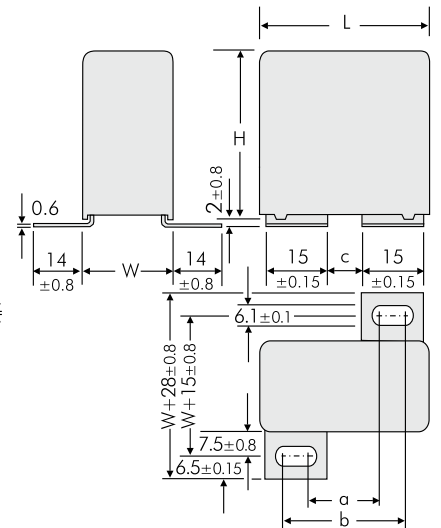
Version	L	a ±0.8	b ±0.8	c ±0.8	d ±1.0	h ±0.8	W
<b>A4.3</b>	31.5	57	47	31	1	3.5	19
<b>A4.4</b>	31.5	57	47	31	1	0	19
<b>A4.6</b>	31.5	44.6	34.6	31.6	1	3.5	19
<b>A4.8</b>	31.5	44.6	34.6	31.6	1	0	19
<b>A4.1</b>	41.5	57	47	31	6	3.5	19
<b>A4.5</b>	41.5	57	47	31	6	0	19



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

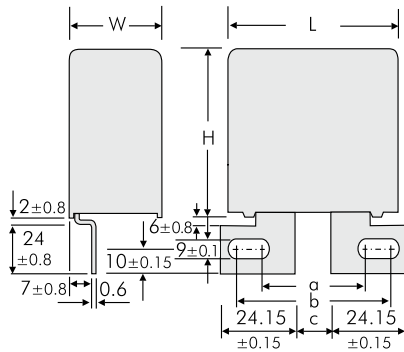


Version	L	a ±0.8	b ±0.8	f ±0.8	d ±0.1
<b>A4.9</b>	31.5 W ≥ 15	44	47	57	4.5
<b>A4.10</b>	31.5 W ≥ 15	43	59	69	6.1
<b>A4.2</b>	41.5 W ≥ 15	54	57	67	4.5
<b>A4</b>	41.5 W ≥ 15	53	69	79	6.1
<b>A4.7</b>	56	65	68	78	4.5
<b>A4</b>	56	64	80	90	6.1

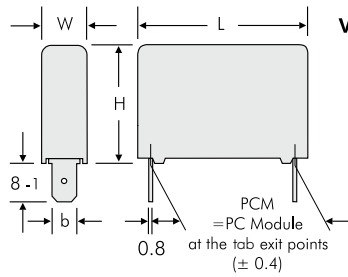


Version	L	a ±0.5	b ±0.5	c ±0.5
<b>A5</b>	41.5	17.5	27.5	7.5
<b>A5</b>	56	20	30	10

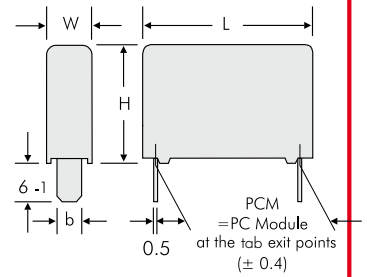
# Versions of WIMA Snubber-Capacitors



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



**Version B**

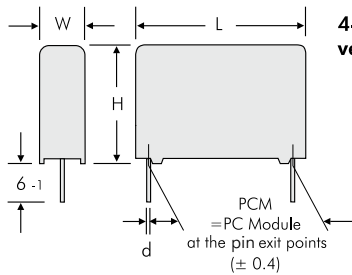


Version	L	a ±0.5	b ±0.5	c ±0.5
<b>A6</b>	56 W ≥ 23	41.5	45.5	15.5

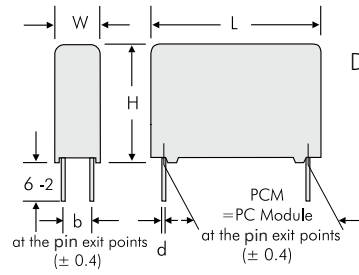
L	W	PCM	b ±0.15
26.5	≥ 11	23.5	6.3
31.5	≥ 11	28.5	6.3
41.5	≥ 11	38.5	6.3
56	≥ 11	49.5	6.3

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-pin version**



**4-pin 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	1D	1E	1F	1G	1H	1I	1J	1K	1L	1M	2A	2B	2C	2D	2E	2F	2H	2I	2J	2K	2L	2M	3A	3C	3D	3E	3G	3I	3J	3K	3L	3N	3O	3P						
W x H x L	Size Code	2-pin	4-pin	B5	B8	A1	A1.1	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*	A2	A2.1	A2.2	A2.3	A2.4	A2.4.1	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	4D																																														
8x15x18	4F																																														
7x16.5x26.5	5D																																														
8.5x18.5x26.5	5F																																														
10.5x19x26.5	5G																																														
10.5x20.5x26.5	5H																																														
11x21x26.5	5I																																														
11x21x31.5	6B																																														
13x24x31.5	6D																																														
15x26x31.5	6F																																														
17x29x31.5	6G																																														
17x34.5x31.5	6I																																														
19x30x31.5	6L																																														
11x22x41.5	7B																																														
13x24x41.5	7C																																														
15x26x41.5	7D																																														
17x29x41.5	7E																																														
19x32x41.5	7F																																														
20x39.5x41.5	7G																																														
24x45.5x41.5	7H																																														
31x46x41.5	7I																																														
19x31x56	8D																																														
23x34x56	8E																																														
27x37.5x56	8H																																														
33x48x56	8J																																														
37x54x56	8L																																														

Version code		4A	4B	4C	4D	4E	4F	4I	4J	4K	4L	4M	5A	6A	FS
W x H x L	Size Code	A4	A4.1*	A4.2	A4.3*	A4.4*	A4.5*	A4.6*	A4.7	A4.8*	A4.9	A4.10	A5	A6	FS 6.3
11x21x26.5	5I														
11x21x31.5	6B														
13x24x31.5	6D														
15x26x31.5	6F														
17x29x31.5	6G														
17x34.5x31.5	6I														
19x30x31.5	6L														
11x22x41.5	7B														
13x24x41.5	7C														
15x26x41.5	7D														
17x29x41.5	7E														
19x32x41.5	7F														
20x39.5x41.5	7G														
24x45.5x41.5	7H														
31x46x41.5	7I														
19x31x56	8D														
23x34x56	8E														
27x37.5x56	8H														
33x48x56	8J														
37x54x56	8L														

Possible connecting respective plate versions - depending on box size.

\* on request





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-PPS = SMDI              FKP 02 = FKP0              MKS 02 = MKS0              FKS 2 = FKS2              FKP 2 = FKP2              MKS 2 = MKS2              MKP 2 = MKP2              FKS 3 = FKS3              FKP 3 = FKP3              MKS 4 = MKS4              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 5 = DCP5              DC-LINK MKP 6 = DCP6              DC-LINK HC = DCH_              SuperCap C = SCSC              SuperCap MC = SCMC              SuperCap R = SCSR              SuperCap MR = SCMR</p>	<p><b>Rated voltage:</b></p> <p>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 = KA              4.8x3.3x4 Size 1812 = KB              5.7x5.1x3.5 Size 2220 = QA              5.7x5.1x4.5 Size 2220 = QB              7.2x6.1x3 Size 2824 = TA              7.2x6.1x5 Size 2824 = TB              10.2x7.6x5 Size 4030 = VA              12.7x10.2x6 Size 5040 = XA              15.3x13.7x7 Size 6054 = YA              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>Special features:</b></p> <p>Standard = 00              Version A1 = 1A              Version A1.1.1 = 1B              Version A1.2 = 1C              ...</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 Standard = S              TPS Standard = Y              ...</p> <p><b>Lead length (untaped)</b></p> <p>3.5 ±0.5 = C9              6 -2 = SD              16 ±1 = P1              ...</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.