

Metallized Polyester (PET) Capacitors in PCM 7.5 mm to 52.5 mm. Capacitances from 1000 pF to 680 μF. Rated Voltages from 50 VDC to 2000 VDC.

Special Features

- High volume/capacitance ratio
- Self-healing
- AEC-Q200 qualified AEC-Q200
- According to RoHS 2015/863/EU

Typical Applications

For general DC-applications e.g.

- By-pass
- Blocking
- Coupling and decoupling
- **Smoothing**
- Timing

Construction

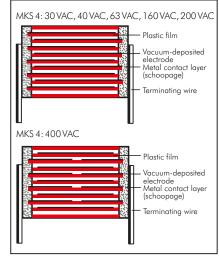
Dielectric:

Polyethylene-terephthalate (PET) film

Capacitor electrodes:

Vacuum-deposited

Internal construction:



Encapsulation:

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

Terminations:

Tinned wire.

Marking:

Colour: Red. Marking: Black.

Electrical Data

Capacitance range:

1000 pF to 680 µF

Rated voltages:

50 VDC, 63 VDC, 100 VDC, 250 VDC, 400 VDC, 630 VDC, 1000 VDC, 1500 VDC, 2000 VDC

Capacitance tolerances:

 $\pm 20\%$, $\pm 10\% \pm 5\%$

Operating temperature range:

 $U_r = 50 \text{ VDC}: -55^{\circ} \text{ C to } +105^{\circ} \text{ C}$ $U_{r}^{'} \ge 63 \text{ VDC}: -55^{\circ} \text{ C to } +125^{\circ} \text{ C}$

Climatic test category:

55/100/56 in accordance with IEC

Insulation resistance at +20° C:

Test voltage: 1.6 U_r, 2 sec. **Test specifications:**

In accordance with IEC 60384-2

Voltage derating:

A voltage derating factor of 1.25 % per K must be applied from +85° C for DC voltages and from +75° C for AC voltages.

Reliability:

Operationallife > 300000 hours (+125°C permitted for 1000 hours max. distributed over the entire operating life)

Failure rate < 2 fit (0.5 x U_r and 40° C)

U _r	U_{test}	C ≤ 0.33 µF	0.33 µF < C ≤ 680 µF
50 VDC	10V	≥5 x 10 ³ MΩ	≥1500 sec (MΩ x µ F)
63 VDC	50 V	≥1 x 10 ⁴ MΩ	≥3000 sec (MΩ x μ F)
100 VDC	100V	≥1.5 x 10 ⁴ MΩ	≥5000 sec (MΩ x µ F)
≥250 VDC	100V	≥3 x 10 ⁴ MΩ	≥10000 sec (MΩ x μF)

Measuring time: 1 min.

Dissipation factors at $+ 20^{\circ}$ C: tan δ

	at f	C ≤ 0.1 µF	0.1 µF < C ≤ 1.0 µF	C > 1.0 µF
Γ	1 kHz	≤ 8 x 10 ⁻³	≤ 8 x 10 ⁻³	≤ 10 x 10 ⁻³
١	10 kHz	$\leq 15 \times 10^{-3}$	≤ 15 x 10 ⁻³	-
١	100 kHz	≤ 30 x 10 ⁻³	_	-

Maximum pulse rise time:

Capacitance pF/µF	50VDC	63VDC		oulse ris 250VDC			1000VDC	1500VDC	2000VDC
10006800	_	_	_	_	_	_	70	90	100
0.010.022	-	_	30	35	38	40	50	50	60
0.0330.068	_	_	15	20	25	32	26	35	40
0.10.22	10	10	12	15	15	17	20	35	40
0.330.68	9	9	9	10	10	13	20	20	38
1.02.2	6	6	5	6	9	13	14	15	15
3.36.8	2.5	3	3	6	6	9	12	12	12
1022	2.5	2.5	2.5	3	6	6	6	_	_
3368	2.5	2.5	2.5	3	3	_	_	_	_
100220	2.5	2.5	2.5	0.9	_	_	_	-	-
330680	0.2	0.2	0.3	_	_	_	_	_	_

Mechanical Tests

Pull test on pins:

 $d \le 0.8 \ \varnothing$: 10 N in direction of pins $d > 0.8 \varnothing$: 20 N in direction of pins according to IEC 60068-2-21

Vibration: 6 hours at 10...2000 Hz and 0.75 mm displacement amplitude or 10 g in accordance with IEC 60068-2-6 **Low air density:** 1kPa = 10 mbar in

accordance with IEC 60068-2-13 **Bump test:** 4000 bumps at 390 m/sec² in accordance with IEC 60068-2-29

Packing

Available taped and reeled up to and including case size 15 x 26 x 31.5 / PCM 27.5 mm.

Detailed taping information and graphs at the end of the catalogue.

For further details and graphs please refer to Technical Information.



Continuation

General Data

Cana	citance					30 VAC*	63 VDC/40 VAC*				
		W	Н		PCM**	Part number	W	Н		PCM**	
0.1	μF	2.5	7	10	7.5	MKS4B031002A	2.5	7	10	7.5	MKS4C031002A
0.15	<i>"</i>	2.5	7	10	7.5	MKS4B031502A	2.5 4	9 7 9	13 10 13	10 7.5 10	MKS4C031003C MKS4C031502A MKS4C031503C
0.22	"	2.5	7	10	7.5	MKS4B032202A	3 4	8.5 9	10 13	7.5	MKS4C032202B MKS4C032203C
0.33	"	2.5	7	10	7.5	MKS4B033302A	4 4	9 9	10 13	7.5	MKS4C033302C MKS4C033303C
0.47	"	3	8.5	10	7.5	MKS4B034702B	4 4	9	10 13	7.5	MKS4C034702C MKS4C034702C
0.68	П	4	9	10	7.5	MKS4B036802C	5 4	10.5 9	10.3 13	7.5 10	MKS4C036802E MKS4C036803C
1.0	μF	4	9	10	7.5	MKS4B041002C	5	10.5	10.3	7.5	MKS4C041002E
1.5	"	5	10.5	10.3	7.5	MKS4B041502E	5.7 5.7	9 12.5 11	13 10.3 13	10 7.5 10	MKS4C041003C MKS4C041502F MKS4C041503F
2.2	"	5.7	12.5	10.3	7.5	MKS4B042202F	5 6	11 12.5	13 18	10 10 15	MKS4C0473037 MKS4C042203F MKS4C042204C
3.3	"	5.7	12.5	10.3	7.5	MKS4B043302F	6 7	12.5	13 18	10	MKS4C042204C MKS4C043303G MKS4C043304D
4.7	"	7.2 6	12.5 12	10.3 13	7.5 10	MKS4B044702G MKS4B044703G	7 6	14	18 26.5	15 15 22.5	MKS4C043304D MKS4C044704D MKS4C044705B
6.8	"	7.2 6	12.5	10.3 13	7.5 10	MKS4B046802G MKS4B046803G	8 7	15 16.5	18 26.5	15 22.5	MKS4C046804F MKS4C046805D
10	μF	9	16	18	15	MKS4B051004J	8.5 9	18.5 19	26.5 31.5	22.5 27.5	MKS4C051006B MKS4C051006F
15	"	11	21	26.5	22.5	MKS4B051505I	11	21	26.5 31.5	22.5 27.5	MKS4C051505A MKS4C051505A MKS4C051506A
18 22 27	" "	9 11 11	19 21 21	31.5 31.5 31.5	27.5 27.5 27.5	MKS4B051806A MKS4B052206B MKS4B052706B	9 11 11	19 21 21	31.5 31.5 31.5	27.5 27.5 27.5 27.5	MKS4C051806A MKS4C051806A MKS4C052206B MKS4C052706B
33 39	"	13 15	24 26	31.5	27.5 27.5 27.5	MKS4B052706B MKS4B053306D MKS4B053906F	13	24 26	31.5 31.5 31.5	27.5 27.5 27.5	MKS4C052706B MKS4C053306D MKS4C053906F
47	"	15	26	31.5	27.5	MKS4B054706F	15	26 24	31.5 41.5	27.5 27.5 37.5	MKS4C054706F MKS4C054706F MKS4C054707C
56	"	17	29	31.5	27.5	MKS4B055606G	17	29	31.5 41.5	27.5 37.5	MKS4C055606G MKS4C055607D
68	"	20	39.5	31.5	27.5	MKS4B056806J	17	34.5 26	31.5 41.5	27.5 37.5	MKS4C056806I MKS4C056807D
82	"	17	34.5	31.5	27.5	MKS4B058206I	17	34.5 29	31.5 41.5	27.5 37.5	MKS4C058206I MKS4C058207E
100	μF	19	32	41.5	37.5	MKS4B061007F	20 19	39.5 32	31.5	27.5 37.5	MKS4C061006J MKS4C061007F
120 150	" "	20 20	39.5 39.5	41.5 41.5	37.5 37.5	MKS4B061207G MKS4B061507G MKS4B061807H	20 20	39.5 39.5	41.5 41.5	37.5 37.5	MKS4C061207G MKS4C061507G MKS4C061807H
180 220	"	24 24	45.5 45.5	41.5	37.5 37.5	MKS4B061807H	24 28 31	45.5 38 46	41.5 41.5 41.5	37.5 37.5 37.5	MKS4C061807H MKS4C061807L MKS4C062207I
270	"	31	46	41.5	37.5	MKS4B062707I	25 31	45 46	57 41.5	52.5 37.5	MKS4C0622071 MKS4C062209D MKS4C0627071
330	"	35	50	41.5	37.5	MKS4B063307J	25 35	45 50	57 41.5	52.5 37.5	MKS4C062707D MKS4C062709D MKS4C063307J
390	"	40	55	41.5	37.5	MKS4B063907K	30 40	45 55	57 41.5	52.5 37.5	MKS4C063309E MKS4C063907K
470	"	35	50	57	52.5	MKS4B064709F	30 35	45 50	57 57	52.5 52.5	MK\$4C063909E MK\$4C064709F
560 680	"	45 45	55 55	57 57	52.5 52.5	MKS4B065609H MKS4B066809H	45 45	55 65	57 57	52.5 52.5	MKS4C065609H MKS4C066809J

^{*} AC voltages: f = 50 Hz; 1.4 x U_{rms} + UDC $\leq U_{r}$

Dims. in mm.

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^{**} PCM = printed circuit module = pin spacing



Continuation

General Data

Capacitance	W	Н		0 VDC PCM**	/63 VAC* Part number	W	Н	250 L	VDC/ PCM**	160 VAC* Part number	
0.01 µF	2.5	7	10	7.5	MKS4D021002A	3	8.5	10	7.5	MKS4F021002B	
0.01 µ F	4	9	13	10	MKS4D021002A MKS4D021003C	4	8.5 9	13	10	MKS4F021002B	
0.015 "	2.5	7	10	7.5	MKS4D021003C	3	8.5	10	7.5	MKS4F021502B	
0.015 "	4	9	13	10	MKS4D021502A	4	9	13	10	MKS4F021503C	
0.022 "	2.5	7	10	7.5	MKS4D022202A	3	8.5	10	7.5	MKS4F022202B	
0.022 //	4	9	13	10	MKS4D022203C	4	9	13	10	MKS4F022203C	
0.033 "	2.5	7	10	7.5	MKS4D023302A	3	8.5	10	7.5	MKS4F023302B	
,,	4	9	13	10	MKS4D023303C	4	9	13	10	MKS4F023303C	
0.047 "	2.5	7	10	7.5	MKS4D024702A	3	8.5	10	7.5	MKS4F024702B	
	4	9	13	10	MKS4D024703C	4	9	13	10	MKS4F024703C	
0.068 "	2.5	7	10	7.5	MKS4D026802A	4	9	10	7.5	MKS4F026802C	
	4	9	13	10	MKS4D026803C	4	9	13	10	MKS4F026803C	
0.1 µF	2.5	7 9	10	7.5	MKS4D031002A	4 4	9	10 13	7.5	MKS4F031002C	
0.15 "	3	8.5	13 10	10 7.5	MKS4D031003C MKS4D031502B	5	10.5	10.3	10 7.5	MKS4F031003C MKS4F031502E	
0.15 "	4	9	13	10	MKS4D031502B	4	9	13	10	MKS4F031503C	
0.22 "	3	8.5	10	7.5	MKS4D032202B	5	10.5	10.3	7.5	MKS4F032202E	
"	4	9	13	10	MKS4D032203C	5	11	13	10	MKS4F032203F	
0.33 "	4	9	10	7.5	MKS4D033302C	5.7	12.5	10.3	7.5	MKS4F033302F	
	4	9	13	10	MKS4D033303C	5	11	13	10	MKS4F033303F	
0.47 "	4.5	9.5	10.3	7.5	MKS4D034702D	6	12	13	10	MKS4F034703G	
0.40 "	4	9	13	10	MKS4D034703C	6	12.5	18	15	MKS4F034704C	
0.68 "	5 4	10.5 9	10.3 13	7.5 10	MKS4D036802E MKS4D036803C	7	14	18	15	MKS4F036804D	
1.0 µF	5.7	12.5	10.3	7.5	MKS4D030003C	8	15	18	15	MKS4F041004F	
1.0 μι	5.7	11	13	10	MKS4D041002F	6	15	26.5	22.5	MKS4F041005B	
1.5 "	6	12	13	10	MKS4D041503G	9	16	18	15	MKS4F041504J	
"	7	14	18	15	MKS4D041504D	7	16.5	26.5	22.5	MKS4F041505D	
2.2 "	8	15	18	15	MKS4D042204F	10.5	19	26.5	22.5	MKS4F042205G	
	6	15	26.5	22.5	MKS4D042205B	9	19	31.5	27.5	MKS4F042206A	
3.3 "	9	16	18	15	MKS4D043304J	11	21	26.5	22.5	MKS4F043305I	
	7	16.5	26.5	22.5	MKS4D043305D	11	21	31.5	27.5	MKS4F043306B	
4.7 "	10.5	19	26.5	22.5	MKS4D044705G	11	21	31.5	27.5	MKS4F044706B	
6.8 "	9 10.5	19 19	31.5 26.5	27.5	MKS4D044706A MKS4D046805G	13	24	31.5	27.5	MKS4F046806D	
0.8 "	110.5	21	31.5	22.5 27.5	MKS4D046806B	13	24	01.0	27.5	WIKS41 040000D	
10 µF	9	19	31.5	27.5	MKS4D051006A	17	29	31.5	27.5	MKS4F051006G	
·						15	26	41.5	37.5	MKS4F051007D	
15 "	11	21	31.5	27.5	MKS4D051506B	17	34.5	31.5	27.5	MKS4F051506I	
	١		0			17	29	41.5	37.5	MKS4F051507E	
18 "	11	21	31.5	27.5	MKS4D051806B	20	39.5	31.5	27.5	MKS4F051806J	
22 "	1.2	24	31.5	27.5	MKS4D052206D	19 20	32 39.5	41.5 41.5	37.5 37.5	MKS4F051807F MKS4F052207G	
27 "	13 15	26	31.5	27.5	MKS4D052706F	20	39.5	41.5	37.5	MKS4F052707G	
22 "	15	26	31.5	27.5	MKS4D052700F	24	45.5	41.5	37.5	MKS4F053307H	
SS "	13	24	41.5	37.5	MKS4D053307C	~	45.5	41.5	07.0	WIKS41 03000711	
39 "	17	29	31.5	27.5	MKS4D053906G	24	45.5	41.5	37.5	MKS4F053907H	
	15	26	41.5	37.5	MKS4D053907D						
47 "	17	34.5	31.5	27.5	MKS4D054706I	31	46	41.5	37.5	MKS4F054707I	
F./	17	29	41.5	37.5	MKS4D054707E	0.5	50	43.5	07.5	LUCATO 5 5 4 0 7 1	
56 "	20	39.5	31.5	27.5	MKS4D055606J	35	50	41.5	37.5	MK\$4F055607J	
68 "	17 20	29 39.5	41.5 31.5	37.5 27.5	MKS4D055607E MKS4D056806J	25 35	45 50	57 41.5	52.5	MKS4F055609D	
00 "	19	39.5	41.5	37.5	MKS4D056807F	30	45	57	37.5 52.5	MKS4F056807J MKS4F056809E	
82 "	20	39.5	41.5	37.5	MKS4D058207G	40	55	41.5	37.5	MKS4F058207K	
						35	50	57	52.5	MKS4F058209F	
100 µF	20	39.5	41.5	37.5	MKS4D061007G	45	55	57	52.5	MKS4F061009H	
120 "	24	45.5	41.5	37.5	MKS4D061207H	45	55	57	52.5	MKS4F061209H	
150 "	31	46	41.5	37.5	MKS4D061507I	45	65	57	52.5	MKS4F061509J	
180 "	31	46	41.5	37.5	MKS4D061807I	* ^C	voltaaa	· t _ c	:∩ H 1	$.4 \times U_{rms} + UDC \leq U_{r}$	
220	25	45 50	57	52.5	MKS4D061809H						
220 "	35 30	50 45	41.5 57	37.5 52.5	MKS4D062207J MKS4D062209E				rcuit mo	odule = pin spacing	
270 "	40	55	41.5	37.5	MKS4D062707K	Dims.	in mm				
270 "	35	50	57	52.5	MKS4D062707K						
330 "	45	55	57	52.5	MKS4D063309H						
390 "	45	55	57	52.5	MKS4D063909H	Piakta	oconicd i	o amand	dosian	ata without prior patification	
470 "	45	65	57	52.5	MKS4D064709J	Rights reserved to amend design data without prior notification.					



Continuation

General Data

General Data												
C			400	VDC/	'200 VAC*	630 VDC/400 VAC*						
Capacitance	W	H	L	PCM**	Part number	W	Н	L	PCM**	Part number		
0.01 µF	3	8.5	10	7.5	MKS4G021002B	3	8.5	10	7.5*	MKS4J021002B		
	4	9	13	10	MKS4G021003C	4	9	13	10	MK\$4J021003C		
0.015 "	3	8.5	10	7.5	MKS4G021502B	4	9	10	7.5*	MKS4J021502C		
	4	9	13	10	MKS4G021503C	4	9	13	10	MKS4J021503C		
0.022 "	4	9	10	7.5	MKS4G022202C	4.5	9.5	10.3	7.5*	MKS4J022202D		
	4	9	13	10	MKS4G022203C	4	9	13	10	MKS4J022203C		
0.033 "	4	9	10	7.5	MK\$4G023302C	5	10.5	1	7.5*	MKS4J023302E		
0.047	4	9	13	10	MKS4G023303C	5	11	13	10	MKS4J023303F		
0.047 "	5	10.5	10.3	7.5	MKS4G024702E	5.7	12.5		7.5*	MKS4J024702F		
0.068 "	4 5	9 10.5	13	10 7.5	MKS4G024703C MKS4G026802E	6	12 12	13	10 10	MKS4J024703G MKS4J026803G		
0.000 "	4	9	13	10	MKS4G026803C	5	11	18	15	MKS4J026803G		
0.1 µF	5	10.5	10.3	7.5	MKS4G031002E	6	12.5		15	MKS4J031004C		
0.15	5 5.7	11 12.5	13 10.3	10 7.5	MKS4G031003F	6	15 14	26.5	22.5	MKS4J031005B		
0.15 "	5.7	12.5	10.3	10	MKS4G031502F MKS4G031503G	7 6	15	18 26.5	15 22.5	MKS4J031504D MKS4J031505B		
0.22 "	6	12	13	10	MKS4G031303G	8	15	18	15	MKS4J031303B		
0.22 "	6	12.5	18	15	MKS4G032204C	6	15	26.5	22.5	MKS4J032205B		
0.33 "	8	15	18	15	MKS4G033304F	7	16.5	26.5	22.5	MKS4J033305D		
0.00 //						9	19	31.5	27.5	MKS4J033306A		
0.47 "	8	15	18	15	MKS4G034704F	10.5	19	26.5	22.5	MKS4J034705G		
"	6	15	26.5	22.5	MKS4G034705B	9	19	31.5	27.5	MKS4J034706A		
0.68 "	7	16.5	26.5	22.5	MKS4G036805D	11	21	26.5	22.5	MKS4J036805I		
						11	21	31.5	27.5	MKS4J036806B		
1.0 µF	10.5	19	26.5	22.5	MKS4G041005G	11	21	31.5	27.5	MKS4J041006B		
	11	21	31.5	27.5	MKS4G041006B							
1.5 "	11	21	26.5	22.5	MKS4G041505I	15	26	31.5	27.5	MKS4J041506F		
	11	21	31.5	27.5	MKS4G041506B	17	245	31.5	07.5	MAKE 4 10 4000 ()		
2.2 "	11	21	31.5	27.5	MKS4G042206B	17 15	34.5 26	41.5	27.5 37.5	MKS4J042206I MKS4J042207D		
3.3 "	13	24	31.5	27.5	MKS4G043306D	20	39.5		27.5	MKS4J042207D		
3.3 "	10	27	01.5	27.5	WIK540043300B	19	32	41.5	37.5	MKS4J043307F		
4.7 "	17	29	31.5	27.5	MKS4G044706G	20	39.5		37.5	MKS4J044707G		
, , , ,												
6.8 "	17	34.5	31.5	27.5	MKS4G046806I	24	45.5	41.5	37.5	MKS4J046807H		
	15	26	41.5	37.5	MKS4G046807D							
10 µF	19	32	41.5	37.5	MKS4G051007F	35	50	41.5	37.5	MKS4J051007J		
15 "	20	39.5	41.5	37.5	MKS4G051507G	40	55	41.5	37.5	MKS4J051507K		
18 "	31	46	41.5	37.5	MKS4G051807I	45	55	57	52.5	MKS4J051809H		
22 "	31	46	41.5	37.5	MKS4G052207I	45	55	57	52.5	MKS4J052209H		
27 "	35	50	41.4	37.5	MKS4G052707J							
33 "	35	50	41.5	37.5	MKS4G053307J							
39 "	35	50	57	52.5	MKS4G053909F							
47 "	35	50	57	52.5	MKS4G054709F	-				1		
56 "	45	65	57	52.5	MKS4G055609J	_ Part number completion:				mpletion:		
68 "	45	65	57	52.5	MKS4G056809J	Version code: 2-pin = 00						

^{*} AC voltages: f = 50 Hz; 1.4 x U_{rms} + UDC \leq U_{r}

Dims. in mm.

Part number completion:									
Version code:	2-pin	= 00							
	4-pin	= D4							
Tolerance:	20 %	= M							
	10 %	= K							
	5 %	= J							
Packing:	bulk	= S							
Pin length:	6-2	= SD							
Taped version s	ee page	157.							

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Continuation page 58

^{**}PCM = printed circuit module = pin spacing

^{*} Admissible AC voltage 250 VAC max.



Continuation

General Data

Capacitance					/400 VAC*					/400 VAC*
Capacitatice	W	Н	L	PCM**	Part number	W	Н	L	PCM**	Part number
1000 pF	3	8.5	10	7.5	MKS4O111002B	4	9	13	10	MKS4S011003C
1500 "	4 3 4	9 8.5 9	13 10 13	10 7.5 10	MKS4O111003C MKS4O111502B MKS4O111503C	4	9	13	10	MKS4S011503C
2200 "	3 4	8.5 9	10 13	7.5 10	MKS4O112202B MKS4O112203C	4	9	13	10	MKS4S012203C
3300 "	4 4	9	10 13	7.5 10	MKS4O113302C MKS4O113303C	4	9	13	10	MKS4S013303C
4700 "	4 4	9	10 13	7.5 10	MKS4O114702C MKS4O114703C	4 5	9 11	13 18	10 15	MKS4S014703C MKS4S014704B
6800 "	4.5 4	9.5 9	10.3 13	7.5 10	MKS4O116802D MKS4O116803C	5 5	11 11	13 18	10 15	MKS4S016803F MKS4S016804B
0.01 µF	5 5	10.5 11	10.3 13	7.5 10	MKS4O121002E MKS4O121003F	6 5	12 11	13 18	10 15	MKS4S021003G MKS4S021004B
0.015,,	5.7 6	12.5 12	10.3 13	7.5 10	MK\$4O121502F MK\$4O121503G	6	12.5	18	15	MKS4S021504C
0.022,,	5	11	18	15	MKS4O122204B	7	14 15	18 26.5	15 22.5	MKS4S022204D MKS4S022205B
0.033,,	6	12.5 15	18 26.5	15 22.5	MKS4O123304C MKS4O123305B	8	15 15	18 26.5	15 22.5	MKS4S023304F MKS4S023305B
0.047,,	7 6 8	14 15 15	18 26.5 18	15 22.5 15	MKS4O124704D MKS4O124705B MKS4O126804F	7 8.5	16.5 18.5	26.526.5	22.5	MKS4S024705D
0.000,	6	15	26.5		MKS4O126805B	0.5	10.5	20.5	22.5	WIRS430200031
0.1 µF	9 7	16 16.5	18 26.5		MKS4O131004J MKS4O131005D	10.5	19 19	26.5 31.5	22.5 27.5	MKS4S031005G MKS4S031006A
0.15 " 0.22 " 0.33 "	8.5 10.5 11	18.5 19 21	26.5 26.5 26.5	22.5 22.5 22.5	MKS4O131505F MKS4O132205G MKS4O133305I	11 13 17	21 24 34.5	31.5 31.5 31.5	27.5 27.5 27.5	MKS4S031506B MKS4S032206D MKS4S033306I
0.33 "	11	21 24	31.5 31.5	27.5 27.5	MKS4O133305I MKS4O133306B MKS4O134706D	17 17 20	29 39.5	41.5 31.5	37.5 27.5	MKS4S0333001 MKS4S033307E MKS4S034706J
0.68 "	15	26	31.5	27.5	MKS4O136806F	17 20	29 39.5	41.5	37.5 37.5	MKS4S034707E MKS4S036807G
1.0 µF	17 17	29 29	31.5 41.5	27.5 37.5	MKS4O141006G MKS4O141007E	24	45.5	41.5	37.5	MKS4S041007H
1.5 " 2.2 "	19 20	32 39.5	41.5	37.5 37.5	MKS4O141507F MKS4O142207G	31 35 35	46 50 50	41.5 41.5 57	37.5 37.5 52.5	MKS4S041507I MKS4S042207J
3.3 " 4.7 " 6.8 "	24 35 40	45.5 50 55	41.5 41.5 41.5	37.5 37.5 37.5	MKS4O143307H MKS4O144707J MKS4O146807K	45 45	55 65	57 57 57	52.5 52.5 52.5	MKS4S042209F MKS4S043309H MKS4S044709J
0.8 "	35	50	57	52.5	MKS4O146809F					
10 µF	45	55	57	52.5	MKS4O151009H					

^{*} AC voltages: f = 50 Hz; 1.4 x U_{rms} + UDC \leq U_{r}

Dims. in mm.

l	Part number completion:										
	Version code:	2-pin	= 00								
l		4-pin	= D4								
ı	Tolerance:	20 %	= M								
ı		10 %	= K								
l		5 %	= J								
ı	Packing:	bulk	= S								
l	Pin length:	6-2	= SD								
	Taped version s	ee page	157.								

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Continuation page 59

^{**} PCM = printed circuit module = pin spacing



Continuation

General Data

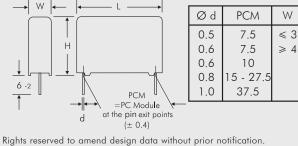
General Data										
Capacitance			200		/400 VAC*	*				
Capacitatics	W	Н	L	PCM**	Part number	*				
1000 pF	4	9	13	10	MKS4U011003C	1				
1500 "	4	9	13	10	MKS4U011503C					
2200 "	5	11	13	10	MKS4U012203F					
3300 "	6 5	12 11	13 18	10 15	MKS4U013303G MKS4U013304B					
4700 "	5	lii	18	15	MKS4U013304B					
6800 "	6	12.5	18	15	MKS4U016804C					
0.01 µF	7	14	18	15	MKS4U021004D					
	6	15	26.5	22.5	MKS4U021005B					
0.015,,	6 7	15	26.5	22.5	MKS4U021505B					
0.022 <i>"</i> 0.033 <i>"</i>	10.5	16.5 19	26.5	22.5	MKS4U022205D MKS4U023305G					
0.033,,	111	21	26.5	22.5	MKS4U024705I					
"	11	21	31.5	27.5	MKS4U024706B					
0.068,,	11	21	31.5	27.5	MKS4U026806B					
0.1 µF	13	24	31.5	27.5	MKS4U031006D					
0.15 "	17	29	31.5	27.5	MKS4U031506G					
0.00	13 17	24 29	41.5	37.5	MKS4U031507C					
0.22 "	20	39.5	41.5	37.5 37.5	MKS4U032207E MKS4U033307G					
0.33 "	24	45.5	41.5	37.5	MKS4U033307U					
0.68 ",	31	46	41.5	37.5	MKS4U036807I					
1.0 µF	40	55	41.5	37.5	MKS4U041007K					
1.5	25	45	57	52.5	MKS4U041009D					
1.5 "	30 45	45 55	57 57	52.5 52.5	MKS4U041509E MKS4U042209H					
22 "	45	65	57	52.5	MKS4U042209FI					
3.3 "				52.0		1				

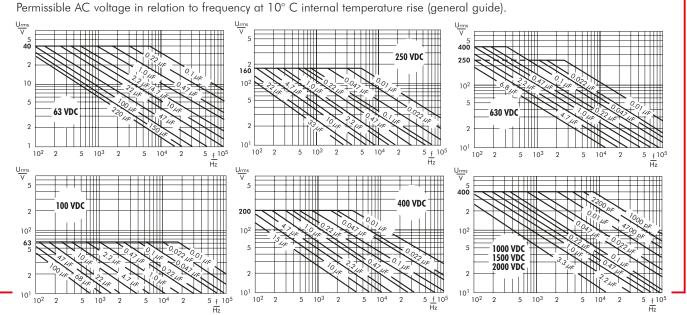
- * AC voltage: f = 50 Hz; 1.4 x $U_{rms} + \text{UDC} \le U_{r}$
- ** PCM = Printed circuit module = pin spacing Dims. in mm.

Part number o	Part number completion:									
Version code:	2-pin	= 00								
	4-pin	= D4								
Tolerance:	20 %	= M								
	10 %	= K								
	5 %	= J								
Packing:	bulk	= S								
Pin length:	6-2	= SD								
Taped version	see page	157.								

PCM b Ød

37.5 10 1.0 0.4 37.5 10 1.0 0.4 37.5 12.5 1.0 0.4 37.5 12.5 1.0 0.4 28 37.5 10 1.0 0.4 31 37.5 20 1.0 0.4 35 37.5 20 1.0 0.4 40 37.5 20 1.0 0.4 25 52.5 1.2 0.8 12.5 30 52.5 20 1.2 0.8 PCM35 52.5 20 1.2 0.8 at the pin exit points $(\pm c)$ 45 52.5 1.2 0.8



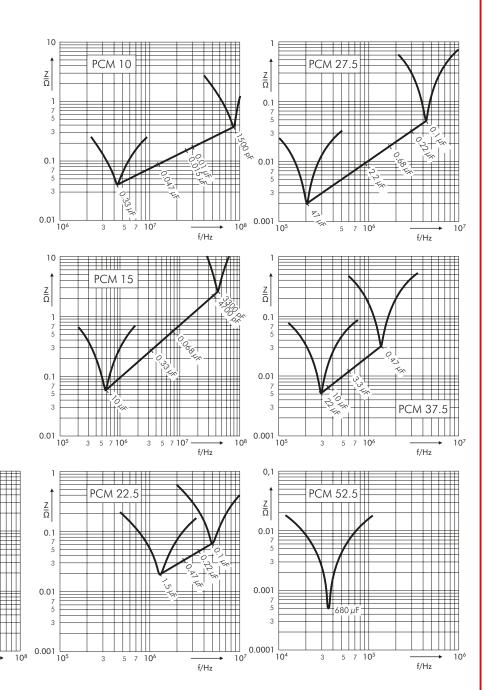


W



Continuation

Impedance change with frequency (general guide).



 $\frac{Z}{\Omega}$

0.1 7 5

0.01 106

f/Hz

Recommendation for Processing and Application of Through-Hole Capacitors



Soldering Process

Internal temperature of the capacitor must be kept as follows:

Polyester: preheating: $T_{max.} \le 125^{\circ} \text{ C}$ soldering: $T_{max.} \le 135^{\circ} \text{ C}$

Polypropylene: preheating: $T_{max.} \le 100^{\circ} \text{ C}$ soldering: $T_{max.} \le 110^{\circ} \text{ C}$

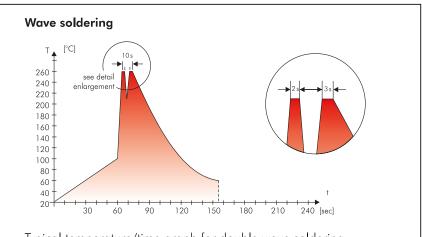
Single wave soldering

Soldering bath temperature: $T < 260^{\circ}$ C Dwell time: t < 5 sec

Double wave soldering

Soldering bath temperature: $T < 260^{\circ}$ C Dwell time: $\sum t < 5$ sec

Due to different soldering processes and heat requirements the graphs are to be regarded as a recommendation only.



Typical temperature/time graph for double wave soldering

WIMA Quality and Environmental Philosophy

ISO 9001:2015 Certification

ISO 9001:2015 is an international basic standard of quality assurance systems for all branches of industry. The approval according to ISO 9001:2015 of our factories certifies that organisation, equipment and monitoring of quality assurance in our factories correspond to internationally recognized standards.

WIMA WPCS

The WIMA Process Control System (WPCS) is a quality surveillance and optimization system developed by WIMA. WPCS is a major part of the quality-oriented WIMA production. Points of application during production process:

- incoming material inspection
- metallization
- film inspection
- schoopage
- pre-healing
- pin attachment
- cast resin preparation/encapsulation
- 100% final inspection
- Testing as per customer requirements

WIMA Environmental Policy

All WIMA capacitors, irrespective of whether through-hole devices or SMD, are made of environmentally friendly materials. Neither during manufacture nor in the product itself any toxic substances are used, e.g.

Lead
PCB
CFC
Hydrocarbon chloride
Mercury

- Chromium 6+ - etc.

We merely use pure, recyclable materials for packing our components, such as:

- carton
- cardboard
- adhesive tape made of paper
- polystyrene

We almost completely refrain from using packing materials such as:

- adhesive tapes made of plastic
- metal clips

RoHS Compliance

According to the RoHS Directive 2015/863/EU as amended from time to time certain hazardous substances like e.g. lead, cadmium, mercury must not be used any longer in electronic equipment as of July 1st, 2006. For the sake of the environment WIMA has re-fraind from using such substances since years already.



Tape for lead-free WIMA capacitors

DIN EN ISO 14001:2004

WIMA's environmental management has been established in accordance with the guidelines of DIN EN ISO 14001:2004 to optimize the production processes with regard to energy and resources.

Typical Dimensions for Taping Configuration



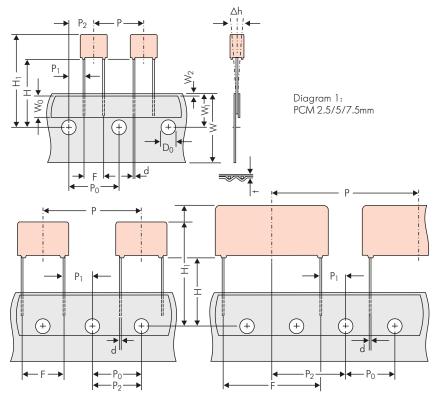


Diagram 2: PCM 10/15 mm

Diagram 3: PCM 22.5 and 27.5*mm
*PCM 27.5 taping possible with two feed holes between components

				Dimens	ions for Radia	l Taping			
Designation	Symbol	PCM 2.5 taping	PCM 5 taping	PCM 7.5 taping	PCM 10 taping*	PCM 15 taping*	PCM 22.5 taping	PCM 27.5 taping	
Carrier tape width	W	18.0 ±0.5	18.0 ±0.5	18.0 ±0.5	18.0 ±0.5	18.0 ±0.5	18.0 ±0.5	18.0 ±0.5	
Hold-down tape width	W ₀	6.0 for hot-sealing adhesive tape	6.0 for hot-sealing adhesive tape	12.0 for hot-sealing adhesive tape	12.0 for hot-sealing adhesive tape	12.0 for hot-sealing adhesive tape	12.0 for hot-sealing adhesive tape	12.0 for hot-sealing adhesive tape	
Hole position	W ₁	9.0 ±0.5	9.0 ±0.5	9.0 ±0.5	9.0 ±0.5	9.0 ±0.5	9.0 ±0.5	9.0 ±0.5	
Hold-down tape position	W ₂	0.5 to 3.0 max.	0.5 to 3.0 max.	0.5 to 3.0 max.	0.5 to 3.0 max.	0.5 to 3.0 max.	0.5 to 3.0 max.	0.5 to 3.0 max.	
Feed hole diameter	D ₀	4.0 ±0.2	4.0 ±0.2	4.0 ±0.2	4.0 ±0.2	4.0 ±0.2	4.0 ±0.2	4.0 ±0.2	
Pitch of component	Р	12.7 ±1.0	12.7 ±1.0	12.7 ±1.0	25.4 ±1.0	25.4 ±1.0	38.1 ±1.5	*38.1 ±1.5 or 50.8 ±1.5	
Feed hole pitch	P ₀	cumulative pitch 12.7 ± 0.3 error max. $1.0 \text{ mm/} 20 \text{ pitch}$	cumulative pitch 12.7 ± 0.3 error max. $1.0 \text{ mm/}20$ pitch	cumulative pitch 12.7 ± 0.3 error max. $1.0 \text{ mm/} 20 \text{ pitch}$	cumulative pitch 12.7 ± 0.3 error max. $1.0 \text{ mm/} 20 \text{ pitch}$	cumulative pitch 12.7 ± 0.3 error max. $1.0 \text{ mm/} 20 \text{ pitch}$	cumulative pitch 12.7 ± 0.3 error max. $1.0 \text{ mm/}20 \text{ pitch}$	cumulative pitch 12.7 ± 0.3 error max. $1.0 \text{ mm/} 20 \text{ pitch}$	
Feed hole centre to pin	P ₁	5.1 ±0.5	3.85 ±0.7	2.6 ±0.7	7.7 ±0.7	5.2 ±0.7	7.8 ±0.7	5.3 ±0.7	
Hole centre to component centre	P ₂	6.35 ±1.3	6.35 ±1.3	6.35 ±1.3	12.7 ±1.3	12.7 ±1.3	19.05 ±1.3	19.05 ±1.3	
Feed hole centre to bottom	НД	16.5 ±0.3	16.5 ±0.3	16.5 ±0.5	16.5 ±0.5	16.5 ±0.5	16.5 ±0.5	16.5 ±0.5	
edge of the component	'	18.5 ±0.5	18.5 ±0.5	18.5 ±0.5	18.5 ±0.5	18.5 ±0.5	18.5 ±0.5	18.5 ±0.5	
Feed hole centre to top edge of the component	H ₁	$H+H_{component} < H_1$ 32.25 max.	$H+H_{component} < H_1$ 32.25 max.	$H+H_{component} < H_1$ 24.5 to 31.5	$H+H_{component} < H_1$ 25.0 to 31.5	$H+H_{component} < H_1$ 26.0 to 37.0	$H+H_{component} < H_1$ 30.0 to 43.0	$H+H_{component} < H_1$ 35.0 to 45.0	
Pin spacing at upper edge of carrier tape	F	2.5 ±0.5	5.0 +0.8 -0.2	7.5 ±0.8	10.0 ±0.8	15 ±0.8	22.5 ±0.8	27.5 ±0.8	
Pin diameter	d	0.4 ±0.05	0.5 ±0.05	*0.5 ±0.05 or 0.6 ^{+0.06} 0.05	$^{\circ}0.5 \pm 0.05 \text{ or } 0.6^{+0.06}_{-0.05}$	0.8 ^{+0.08} _{-0.05}	0.8 ^{+0.08} _{-0.05}	0.8 ^{+0.08} _{-0.05}	
Component alignment	Δh	± 2.0 max.	± 2.0 max.	± 3.0 max.	± 3.0 max.	± 3.0 max.	± 3.0 max.	± 3.0 max.	
Total tape thickness	t	0.6 ±0.2	0.6 ±0.2	0.6 ±0.2	0.6 ±0.2	0.6 ±0.2	0.6 ±0.2	0.6 ±0.2	
		ROLL/	AMMO			AMMO			
Package (see also page 158)	A	REEL Ø 360 max. Ø 30 ± 1	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$						
Unit					see details page 159.				

 $^{{\}bf \blacktriangle}$ When ordering please specify dimension H and required packaging type.

Dims in mm.

• Diameter of pins see General Data.

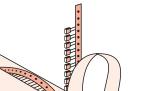
Please clarify customer-specific deviations with the manufacturer.

PCM 10 and PCM 15 can be crimped to PCM 7.5. Position of components according to PCM 7.5 (sketch 1). $P_0=12.7$ or 15.0 is possible

Types of Tape Packaging of **Capacitors for Automatic Radial Insertion**

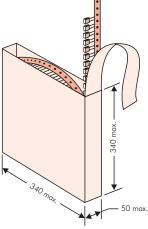


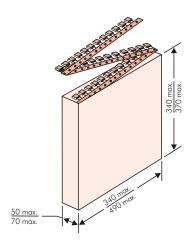
■ ROLL Packaging

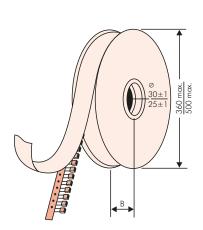


AMMO Packaging

■ REEL Packaging







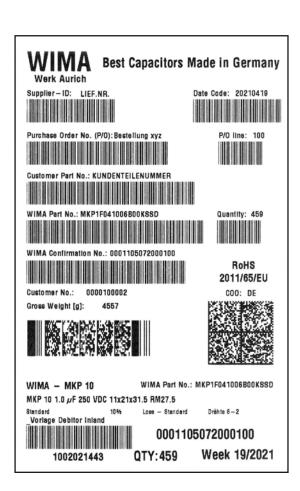
BAR CODE (Labelling)

Labelling of package units in plain text and with alphanumerical Bar Code

- WIMA supplier number
- Date code
- Customer's P/O number
- P/O line
- Customer's part number
- WIMA part number
- Quantity
- WIMA confirmation number
- Country of origin
- Customer name
- Handling unit number
- Week of delivery.

In addition part description of

- article
- capacitance value
- rated voltage
- dimensions
- technical note
- capacitance tolerance
- packing
- connecting information



BARCODE PDF417 BARCODE 2D Datamatrix

Packing Quantities for Capacitors with Radial Pins in PCM 2.5 mm to 27.5 mm



						pcs. per packing unit										
		Si	ze			RC	LL	REEL ∅ 360		AMMO 340 × 340 490 × 370						
PCM		0.			bulk		1110 5									
	W	ш	<u> </u>	Codes	S	N	H18.5	H16.5	H18.5	H16.5	J.	H16.5	C H18.5	H16.5	D	
	2.5	7	L 4 /	OB						н	J			В	U	
	3	7.5	4.6 4.6	OC OR	5000 5000	22 20		250 230		_	_	28 23		_		
2.5 mm	3.8	8.5	4.6	0D	5000	1500		1800		_	_	1	1800		_	
	4.6	9	4.6	0E	5000	12		150		_	-		1500		_	
	5.5	10	4.6	OF	5000	900		1200		-	-	1200		_	-]	
	2.5	6.5	7.2	1A	5000	22		250		-	-	28		-	-	
	3	7.5	7.2	1B	5000	20		230		-	-	23		-	-	
	3.5	8.5	7.2	1C	5000	16		200		-	-	20		-	-	
	4.5	6 9.5	7.2	1D	6000 4000	13		150		-		15 15		-	-	
	4.5 5	9.5 10	7.2 7.2	1E 1F	3500	13 11		150 140		_		14			-	
_	5.5	7	7.2	1G	4000	10		120		_	_	12			<u> </u>	
5 mm	5.5	11.5	7.2	1H	2500	10		1200		_		12		_		
	6.5	8	7.2	11	2500		00	100		_	-	10		_		
	7.2	8.5	7.2	1J	2500	7	00	1000		_		10	1000		_	
	7.2	13	7.2	1K	2000	700		950		-	-		1000		-	
	8.5	10	7.2	1L	2000		00	80		-	-	1	00	-	-	
	8.5	14	7.2	1M	1500		00	80		-	-		00	-	-	
	2.5	16 7	7.2	1N	1000 5000		00	60		- 44			40	-		
	3	8.5	10	2A 2B	5000	-		250 220		44 43		25 23		41	- 50	
	4	9	10	2C	4000	_	_	1700		3200		17		3000		
7.5 mm	4.5	9.5	10.3	2D	3500	_		1500		2900		1400		2700		
	5	10.5	10.3	2E	3000	_		1300		25	00	13	00	-		
	5.7	12.5	10.3	2F	2000	-		1000 900		22		11		-	-	
	7.2	12.5	10.3	2G	1500	-	-			18		10	00	-	-	
	3 4	9 9	13 13	3A 3C	3000 3000	-	-	110 90		22 16		-			00 50	
	4	9.5	13	3D	3000	_		90		1600				1400		
10 mm	5	11	13	3F	3000	_		700		1300		_		1100		
	6	12	13	3G	2400	_		550		1100		-		1000		
	6	12.5	13	3H	2400	-		550		1100		_			00	
	8	12	13	31	2000	_	-	40			00	-	-		40	
	5 6	11 12.5	18 18	4B 4C	2400 2000	-	-	60 50		12 10		-			50	
	7	14.5	18	4D	1600		_	45			00			1	50	
15 mm	8	15	18	4F	1200	_	_	40			00	_			40	
15 mm	9	14	18	4H	1200	_		350		700		-		650		
	9	16	18	4J	900	-		350		700		-		650		
	11	14	18	4M	1000	-	-	30	00		00	-	-	-	40	
	5 6	14 15	26.5 26.5	5A 5B	1200 1000	-	-	-			00	-	-	1	70 40	
	7	16.5	26.5	5D	760			_		700 600					50	
22.5 mm	8.5	18.5	26.5	5F	500	_	_	_		480		_	_		50	
	10.5	19	26.5	5G	594*	-	-	_	- -		00	-	-	i	60	
	10.5	20.5	26.5	5H	594*	-	-	_			400		-		60	
	11	21	26.5	51	561*	_	-	_	_		380		-		50	
	9	19 21	31.5 31.5	6A 6B	567* 459*	-	-	-		460/340*		-	•	-	-	
	13	24	31.5	6D	439 378*			_		380/280* 300		_		_		
27.5 mm	15	26	31.5	6F	324*	_	_	_		270		_			_	
27.00 111111	17	29	31.5	6G	198*	-	-	_		270 –		_		-		
	17	34.5	31.5	61	198*	-	-	_		-	-	-		-	-	
	20	39.5	31.5	6J	162*	-	-	_		-	-	-		-	-	

Rights reserved to amend design data without prior notification.

^{*} for 2-inch transport pitches.
* TPS (Tray-Packing-System). Plate versions may have different packing units.
Samples and pre-production needs on request.

Packing Quantities for Capacitors with Radial Pins in PCM 37.5 mm to 52.5 mm



					pcs. per packing unit											
		C.				RC	LL	REEL				AMMO				
PCM		Si	ze		bulk			Ø3	360	Ø :	500	340	× 340	490	× 370	
						H16.5	H18.5	H16.5	H18.5	H16.5	H18.5	H16.5	H18.5	H16.5	H18.5	
	W	Н	L	Codes	S	N	0	F	I	Н	J	Α	С	В	D	
	9	19	41.5	7A	441*	-	_	_			_		_	_		
	11	22	41.5	7B	357*	-	-	_			_		_	-		
	13	24	41.5	7C	294*	_		-		_		_		-		
	15 17	26 29	41.5 41.5	7D 7E	252* 154*	-	_		-		_		_		_	
37.5 mm**	19	32	41.5	7F	140*	_		_		_		_		_		
37.3 mm	20	39.5	41.5	7G	126*	_		_		_		_		_		
	24	45.5	41.5	7H	112*	_		-		-		-		-		
	28	38	41.5	7L	84*	_		-		-		-		_		
	31 35	46 50	41.5	71 7J	84*	- - -		-		-		_		_		
	40	55	41.5 41.5	75 7K	35* 28*			_		_		_		_		
	19	31	56	8D	120*	<u> </u>		_		_		_		_		
	23	34	56	8E	80*		_	_	_		_		_		_	
48.5 mm**	27	37.5	56	8H	84*	_		_		_		_		-		
	33	48	56	8J	25*	-	-	-		_			_		-	
	37	54	56	8L	25*	-			-	-		-			_	
	25	45	57	9D	70*	-	-	-	-		-		-		_	
E2 E	30	45	57	9E	60*	-		-		-		_		-		
52.5 mm	35	50	57	9F	25*	-	-	-		_		_		-		
	45 45	55 65	57 57	9H 9J	20* 20*		_	_		_		_		_		

Updated data on www.wima.com

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^{*} TPS (Tray-Packing-System). Plate versions may have different packing units.

**For Snubber capacitors in 2-pin version the PCM is changing to 38.5 respective 49.5 mm. Samples and pre-production needs 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: Version code (e.g. Snubber versions)

Field 15: Capacitance tolerance

Field 16: Packing

Field 17 - 18: Pin length (untaped)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
M	К	S	2	С	0	2	1	0	0	1	Α	0	0	M	S	S	D
	MK	S 2		63 \	/DC		0.0	lμF		2.5×6	.5×7.2		-	20%	bulk	6	-2

	<u>_</u>			
Type description:	Rated voltage:	Capacitance:	Size:	Tolerance:
SMD-PET = SMDT SMD-PEN = SMDN SMD-PPS = SMDI FKP 02 = FKP0 MKS 02 = MKS0 FKS 2 = FKS2 FKP 2 = FKP2 FKS 3 = FKS3 FKP 3 = FKP 3 MKS 2 = MKS2 MKP 2 = MKP2 MKS 4 = MKS4 MKP 4 = MKP4 MKP 10 = MKP1 FKP 4 = FKP4 FKP 1 = FKP1 MKP-X2 = MKX2 MKP-X1 R = MKX1 MKP-X2 = MKY2 MKP-X1 R = MKX1 MKP-Y2 = MKY2 MKP 4F = SNFP Snubber MKP = SNMP Snubber FKP = SNFP GTO MKP = GTOM DC-LINK MKP 4 = DCP4 DC-LINK MKP 6 = DCP6 DC-LINK HC = DCHC	50 VDC = B0 63 VDC = C0 100 VDC = D0 250 VDC = F0 400 VDC = H0 520 VDC = H2 600 VDC = I0 630 VDC = J0 700 VDC = K0 800 VDC = L0 850 VDC = M0 900 VDC = N0 1000 VDC = O1 1100 VDC = Q0 1250 VDC = R0 1500 VDC = T0 1700 VDC = T0 1700 VDC = T0 2500 VDC = U0 2500 VDC = U0 2500 VDC = V0 3000 VDC = V0 3000 VDC = V0 3000 VDC = V0 4000 VDC = X0 6000 VDC = S0 1250 VDC = W0 4000 VDC = X0 6000 VDC = Z0 8000 VDC = X0 80	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 = 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 = 5470 100 µF = 6220 1000 µF = 7100	4.8x3.3x3 Size1812 = KA 4.8x3.3x4 Size1812 = KB 5.7x5.1x3.5 Size2220 = QA 5.7x5.1x4.5 Size2220 = QB 7.2x6.1x3 Size2824 = TA 7.2x6.1x5 Size2824 = TB 10.2x7.6x5 Size4030 = VA 12.7x10.2x6 Size5040 = XA 15.3x13.7x7 Size6054 = YA 2.5x7x4.6 PCM2.5 = OB 3x7.5x4.6 PCM2.5 = OC 2.5x6.5x7.2 PCM5 = 1A 3x7.5x7.2 PCM5 = 1B 2.5x7x10 PCM7.5 = 2A 3x8.5x10 PCM7.5 = 2B 3x9x13 PCM10 = 3A 4x9x13 PCM10 = 3A 4x9x13 PCM10 = 3C 5x11x18 PCM15 = 4B 6x12.5x18 PCM15 = 4C 5x14x26.5 PCM22.5 = 5A 6x15x26.5 PCM22.5 = 5B 9x19x31.5 PCM27.5 = 6B 9x19x41.5 PCM37.5 = 7A 11x22x41.5 PCM37.5 = 7B 19x31x56 PCM 48.5 = 8D 25x45x57 PCM 52.5 = 9D	#20% = M #10% = K #5% = J #2.5% = H #11% = E #18 = E #18 = E #19 = E
	350 VAC = BW 440 VAC = 4W 	1500 µF = 7150	Version code: Standard = 00 Version A1 = 1A Version A1.1.1 = 1B	Pin length (untaped) 3.5 ±0.5 = C9 6 -2 = SD 16 ±1 = P1

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.

= 2A

Version A2

Pin length (taped)