



**THE DATASHEET OF
MKP1O126805D00KSSD**



Polypropylene (PP) Capacitors for Pulse Applications with Double-Sided Metallized Electrodes in PCM 7.5 mm to 52.5 mm. Capacitances from 1000 pF to 47 μF. Rated Voltages from 100 VDC to 3000 VDC.

Special Features

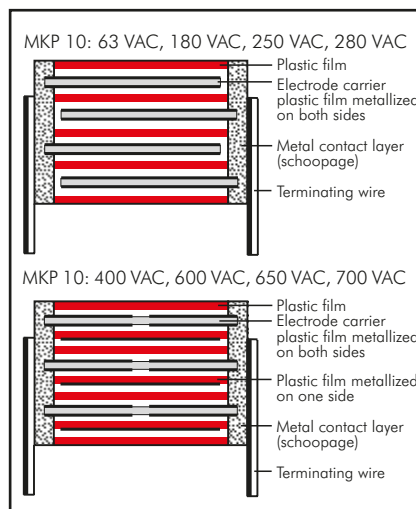
- Pulse duty construction
- Self-healing
- Very low dissipation factor
- Negative capacitance change versus temperature
- AEC-Q200 qualified
- According to RoHS 2015/863/EU

Typical Applications

- For pulse applications e.g.
- Switch mode power supplies
 - TV and monitor sets
 - Lighting
 - Audio/video equipment

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.

Marking: Colour: Red.

Marking: Black.

Electrical Data

Capacitance range:

1000 pF to 47 μF

Rated voltages: 100VDC, 250VDC, 400VDC, 630VDC, 850VDC, 1000VDC, 1600VDC, 2000VDC, 2500VDC, 3000 VDC

Capacitance tolerances:

±20%, ±10%, ±5%

Operating temperature range:

-55° C to +105° C

Insulation resistance at +20° C:

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

$C > 0.33 \mu\text{F}: \geq 30000 \text{ sec} (\text{M}\Omega \times \mu\text{F})$

Measuring voltage: 100 V/1 min.

Test voltage: 2 sec.

L	≤ 2000VDC	2500VDC	≥ 3000VDC
< 41.5	1.6 U _r	1.4 U _r	1.2 U _r
41.5	1.4 U _r	1.4 U _r	1.2 U _r
57	1.2 U _r	1.2 U _r	1.2 U _r

Climatic test category:

55/100/56 in accordance with IEC

Dielectric absorption: 0.05 %

Voltage derating:

A voltage derating factor of 1.35 % per K must be applied from +85° C for DC voltages and from +75° C for AC voltages.

Reliability:

Operational life > 300 000 hours

Failure rate < 1 fit (0.5 x U_r and 40° C)

Specific dissipation:

Box size* WxHxL in mm	Specific dissipation in Watts per K above the ambient temperature
35 x 50 x 57	0.132
45 x 55 x 57	0.164
45 x 65 x 57	0.184

* other box sizes see page 11.

Dissipation factors at + 20° C: tan δ

at f	C ≤ 0.1 μF	0.1 μF < C ≤ 1.0 μF	C > 1.0 μF
1 kHz	≤ 6 x 10 ⁻⁴	≤ 6 x 10 ⁻⁴	≤ 6 x 10 ⁻⁴
10 kHz	≤ 6 x 10 ⁻⁴	≤ 6 x 10 ⁻⁴	-
100 kHz	≤ 15 x 10 ⁻⁴	-	-

Maximum pulse rise time:

Capacitance pF/μF	max. pulse rise time V/μsec at T _A < 40° C									
	100VDC	250VDC	400VDC	630VDC	850VDC	1000VDC	1600VDC	2000VDC	2500VDC	3000VDC
1000 ... 2200	1250	2300	2300	2300	3500	3500	7000	11500	11500	-
3300 ... 6800	1150	1500	1500	1500	3500	3500	7000	11500	11500	-
0.01 ... 0.022	900	1400	1500	1500	2700	2700	3800	4400	11500	-
0.033 ... 0.068	500	1000	1150	1400	2700	2700	2700	2700	2700	2700
0.1 ... 0.22	250	650	650	1150	1800	1800	1800	1800	1800	1800
0.33 ... 0.68	130	390	500	900	1150	1150	1150	1150	1150	1150
1.0 ... 2.2	90	250	250	500	500	500	650	650	650	500
3.3 ... 4.7	65	100	130	190	230	230	330	-	-	-
6.8 ... 15	45	65	90	160	-	-	-	-	-	-
22 ... 47	30	45	45	-	-	-	-	-	-	-

Mechanical Tests

Pull test on pins:

d ≤ 0.8 Ø: 10 N in direction of pins

d > 0.8 Ø: 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

Capacitance	100 VDC/63 VAC					250 VDC/180 VAC				
	W	H	L	PCM**	Part number	W	H	L	PCM**	Part number
0.01 µF	4	9	10	7.5	MKP1D021002C	4	9	10	7.5	MKP1F021002C
0.015 "	4	9	10	7.5	MKP1D021502C	4	9	10	7.5	MKP1F021502C
0.022 "	4	9	10	7.5	MKP1D022202C	4	9	10	7.5	MKP1F022202C
0.033 "	5	10.5	10.3	7.5	MKP1D023302E	5	10.5	10.3	7.5	MKP1F023302E
0.047 "	4	9	13	10	MKP1D023303C	4	9	13	10	MKP1F023303C
0.068 "	5	10.5	10.3	7.5	MKP1D024702E	5	10.5	10.3	7.5	MKP1F024702E
	4	9	13	10	MKP1D024703C	4	9	13	10	MKP1F024703C
	5	11	13	10	MKP1D026803F	5	11	13	10	MKP1F026803F
	5	11	18	15	MKP1F026804B					
0.1 µF	6	12	13	10	MKP1D031003G	6	12	13	10	MKP1F031003G
0.12 "	6	12.5	18	15	MKP1D031204C	6	12.5	18	15	MKP1F031204C
0.15 "	6	12.5	18	15	MKP1D031504C	6	12.5	18	15	MKP1F031504C
0.18 "	7	14	18	15	MKP1D031804D	7	14	18	15	MKP1F031804D
0.22 "	7	14	18	15	MKP1D032204D	7	14	18	15	MKP1F032204D
0.27 "	8	15	18	15	MKP1D032704F	8	15	18	15	MKP1F032704F
0.33 "	8	15	18	15	MKP1D033304F	8	15	18	15	MKP1F033304F
0.39 "	9	16	18	15	MKP1D033904J	9	16	18	15	MKP1F033904J
0.47 "	9	16	18	15	MKP1D034704J	9	16	18	15	MKP1F034704J
0.56 "	7	16.5	26.5	22.5	MKP1D034705D	7	16.5	26.5	22.5	MKP1F034705D
0.68 "	8.5	18.5	26.5	22.5	MKP1D035605F	8.5	18.5	26.5	22.5	MKP1F035605F
	8.5	18.5	26.5	22.5	MKP1D036805F	8.5	18.5	26.5	22.5	MKP1F036805F
0.82 "	10.5	19	26.5	22.5	MKP1D038205G	11	21	26.5	22.5	MKP1F038205I
1.0 µF	10.5	19	26.5	22.5	MKP1D041005G	11	21	26.5	22.5	MKP1F041005I
1.2 "	11	21	31.5	27.5	MKP1D041206B	11	21	31.5	27.5	MKP1F041206B
1.5 "	11	21	31.5	27.5	MKP1D041506B	13	24	31.5	27.5	MKP1F041206D
1.8 "	13	24	31.5	27.5	MKP1D041806D	13	24	31.5	27.5	MKP1F041506D
2.2 "	13	24	31.5	27.5	MKP1D042206D	15	26	31.5	27.5	MKP1F041806F
2.7 "	17	29	31.5	27.5	MKP1D042706G	15	26	31.5	27.5	MKP1F042206F
3.3 "	17	29	31.5	27.5	MKP1D043306G	13	24	41.5	37.5	MKP1F042207C
3.9 "	20	39.5	31.5	27.5	MKP1D043906J	17	34.5	31.5	27.5	MKP1F042706I
4.7 "	20	39.5	31.5	27.5	MKP1D044706J	17	34.5	31.5	27.5	MKP1F043306I
5.6 "	17	29	41.5	37.5	MKP1D044707E	17	29	41.5	37.5	MKP1F043307E
6.8 "	19	32	41.5	37.5	MKP1D045607F	20	39.5	31.5	27.5	MKP1F043906J
8.2 "	19	32	41.5	37.5	MKP1D046807F	20	39.5	31.5	27.5	MKP1F044706J
	20	39.5	41.5	37.5	MKP1D048207G	19	32	41.5	37.5	MKP1F044707F
	24	45.5	41.5	37.5	MKP1F048207H	20	39.5	41.5	37.5	MKP1F045607G
						20	39.5	41.5	37.5	MKP1F046807G
						24	45.5	41.5	37.5	MKP1F048207H

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

** PCM = Printed circuit module = pin spacing

Dims. in mm.

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

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.	

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Continuation

General Data

Capacitance	100 VDC/63 VAC*					250 VDC/180 VAC*				
	W	H	L	PCM**	Part number	W	H	L	PCM**	Part number
10 μ F	20	39.5	41.5	37.5	MKP1D051007G	24	45.5	41.5	37.5	MKP1F051007H
						28	38	41.5	37.5	MKP1F051007L
12 "	24	45.5	41.5	37.5	MKP1D051207H	35	50	41.5	37.5	MKP1F051207J
15 "	24	45.5	41.5	37.5	MKP1D051507H	35	50	41.5	37.5	MKP1F051507J
						35	50	57	52.5	MKP1F051509F
18 "	35	50	41.5	37.5	MKP1D051807J	35	50	57	52.5	MKP1F051809F
22 "	35	50	41.5	37.5	MKP1D052207J	35	50	57	52.5	MKP1F052209F
27 "	40	55	41.5	37.5	MKP1D052707K	45	65	57	52.5	MKP1F052709J
33 "	40	55	41.5	37.5	MKP1D053307K	45	65	57	52.5	MKP1F053309J
39 "	45	65	57	52.5	MKP1D053909J					
47 "	45	65	57	52.5	MKP1D054709J					

Capacitance	400 VDC/250 VAC*					630 VDC/400 VAC*				
	W	H	L	PCM**	Part number	W	H	L	PCM**	Part number
1000 pF	4	9	10	7.5	MKP1G011002C	4	9	10	7.5*	MKP1J011002C
1200 "	4	9	10	7.5	MKP1G011202C	4	9	10	7.5*	MKP1J011202C
1500 "	4	9	10	7.5	MKP1G011502C	4	9	10	7.5*	MKP1J011502C
1800 "	4	9	10	7.5	MKP1G011802C	4	9	10	7.5*	MKP1J011802C
2200 "	4	9	10	7.5	MKP1G012202C	4	9	10	7.5*	MKP1J012202C
2700 "	4	9	10	7.5	MKP1G012702C	4	9	10	7.5*	MKP1J012702C
3300 "	4	9	10	7.5	MKP1G013302C	4	9	10	7.5*	MKP1J013302C
3900 "	4	9	10	7.5	MKP1G013902C	4	9	10	7.5*	MKP1J013902C
4700 "	4	9	10	7.5	MKP1G014702C	4	9	10	7.5*	MKP1J014702C
5600 "	4	9	10	7.5	MKP1G015602C	4	9	10	7.5*	MKP1J015602C
6800 "	4	9	10	7.5	MKP1G016802C	4	9	10	7.5*	MKP1J016802C
						4	9	13	10	MKP1J016803C
8200 "	4	9	10	7.5	MKP1G018202C	5	10.5	10.3	7.5*	MKP1J018202E
0.01 μ F	4	9	10	7.5	MKP1G021002C	5	10.5	10.3	7.5*	MKP1J021002E
	4	9	13	10	MKP1G021003C	4	9	13	10	MKP1J021003C
0.012 "	5	10.5	10.3	7.5	MKP1G021202E	5	11	13	10	MKP1J021203F
0.015 "	5	10.5	10.3	7.5	MKP1G021502E	5	11	13	10	MKP1J021503F
	4	9	13	10	MKP1G021503C	5	11	18	15	MKP1J021504B
0.018 "	5	10.5	10.3	7.5	MKP1G021802E	5	11	13	10	MKP1J021803F
0.022 "	5	10.5	10.3	7.5	MKP1G022202E	5	11	13	10	MKP1J022203F
	4	9	13	10	MKP1G022203C	5	11	18	15	MKP1J022204B
0.027 "	5.7	12.5	10.3	7.5	MKP1G022702F	6	12	13	10	MKP1J022703G
0.033 "	5.7	12.5	10.3	7.5	MKP1G023302F	6	12	13	10	MKP1J023303G
	5	11	13	10	MKP1G023303F	5	11	18	15	MKP1J023304B
0.039 "	6	12	13	10	MKP1G023903G	6	12.5	18	15	MKP1J023904C
0.047 "	6	12	13	10	MKP1G024703G	6	12.5	18	15	MKP1J024704C
	5	11	18	15	MKP1G024704B	6	15	26.5	22.5	MKP1J024705B
0.056 "	6	12.5	18	15	MKP1G025604C	7	14	18	15	MKP1J025604D
0.068 "	6	12.5	18	15	MKP1G026804C	7	14	18	15	MKP1J026804D
	6	15	26.5	22.5	MKP1G026805B	6	15	26.5	22.5	MKP1J026805B
0.082 "	7	14	18	15	MKP1G028204D	9	16	18	15	MKP1J028204J

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

** PCM = Printed circuit module = pin spacing

* Admissible AC voltage 280 VAC.

Dims. in mm.

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

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.

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Continuation

General Data

Capacitance	400 VDC/250 VAC*					630 VDC/400 VAC*				
	W	H	L	PCM**	Part number	W	H	L	PCM**	Part number
0.1 μ F	7	14	18	15	MKP1G031004D	9	16	18	15	MKP1J031004J
	6	15	26.5	22.5	MKP1G031005B	7	16.5	26.5	22.5	MKP1J031005D
0.12 "	8	15	18	15	MKP1G031204F	8.5	18.5	26.5	22.5	MKP1J031205F
0.15 "	8	15	18	15	MKP1G031504F	8.5	18.5	26.5	22.5	MKP1J031505F
	6	15	26.5	22.5	MKP1G031505B	9	19	31.5	27.5	MKP1J031506A
0.18 "	9	16	18	15	MKP1G031804J	8.5	18.5	26.5	22.5	MKP1J031805F
0.22 "	9	16	18	15	MKP1G032204J	8.5	18.5	26.5	22.5	MKP1J032205F
	7	16.5	26.5	22.5	MKP1G032205D	9	19	31.5	27.5	MKP1J032206A
0.27 "	8.5	18.5	26.5	22.5	MKP1G032705F	11	21	26.5	22.5	MKP1J032705I
0.33 "	8.5	18.5	26.5	22.5	MKP1G033305F	11	21	26.5	22.5	MKP1J033305I
	9	19	31.5	27.5	MKP1G033306A	11	21	31.5	27.5	MKP1J033306B
0.39 "	10.5	19	26.5	22.5	MKP1G033905G	11	21	31.5	27.5	MKP1J033906B
0.47 "	10.5	19	26.5	22.5	MKP1G034705G	11	21	31.5	27.5	MKP1J034706B
	9	19	31.5	27.5	MKP1G034706A					
0.56 "	11	21	26.5	22.5	MKP1G035605I	15	26	31.5	27.5	MKP1J035606F
0.68 "	11	21	26.5	22.5	MKP1G036805I	15	26	31.5	27.5	MKP1J036806F
	11	21	31.5	27.5	MKP1G036806B	13	24	41.5	37.5	MKP1J036807C
0.82 "	13	24	31.5	27.5	MKP1G038206D	17	29	31.5	27.5	MKP1J038206G
1.0 μ F	13	24	31.5	27.5	MKP1G041006D	17	29	31.5	27.5	MKP1J041006G
						15	26	41.5	37.5	MKP1J041007D
1.2 "	17	29	31.5	27.5	MKP1G041206G	20	39.5	31.5	27.5	MKP1J041206J
1.5 "	17	29	31.5	27.5	MKP1G041506G	20	39.5	31.5	27.5	MKP1J041506J
	13	24	41.5	37.5	MKP1G041507C	19	32	41.5	37.5	MKP1J041507F
1.8 "	20	39.5	31.5	27.5	MKP1G041806J	20	39.5	41.5	37.5	MKP1J041807G
2.2 "	20	39.5	31.5	27.5	MKP1G042206J	20	39.5	41.5	37.5	MKP1J042207G
	17	29	41.5	37.5	MKP1G042207E					
2.7 "	20	39.5	41.5	37.5	MKP1G042707G	24	45.5	41.5	37.5	MKP1J042707H
3.3 "	20	39.5	41.5	37.5	MKP1G043307G	24	45.5	41.5	37.5	MKP1J043307H
						28	38	41.5	37.5	MKP1J043307L
3.9 "	20	39.5	41.5	37.5	MKP1G043907G	35	50	41.5	37.5	MKP1J043907J
4.7 "	20	39.5	41.5	37.5	MKP1G044707G	35	50	41.5	37.5	MKP1J044707J
5.6 "	24	45.5	41.5	37.5	MKP1G045607H	40	55	41.5	37.5	MKP1J045607K
6.8 "	24	45.5	41.5	37.5	MKP1G046807H	40	55	41.5	37.5	MKP1J046807K
	28	38	41.5	37.5	MKP1G046807L	35	50	57	52.5	MKP1J046809F
8.2 "	35	50	41.5	37.5	MKP1G048207J	45	55	57	52.5	MKP1J048209H
10 μ F	35	50	41.5	37.5	MKP1G051007J	45	55	57	52.5	MKP1J051009H
	35	50	57	52.5	MKP1G051009F					
12 "	40	55	41.5	37.5	MKP1G051207K					
15 "	40	55	41.5	37.5	MKP1G051507K					
	35	50	57	52.5	MKP1G051509F					
18 "	45	65	57	52.5	MKP1G051809J					
22 "	45	65	57	52.5	MKP1G052209J					

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

** PCM = Printed circuit module = pin spacing

Dims. in mm.

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

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.	

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Continuation

General Data

Capacitance	850 VDC/450 VAC*					1000 VDC/600 VAC*				
	W	H	L	PCM**	Part number	W	H	L	PCM**	Part number
1000 pF	4	9	10	7.5	MKP1M011002C	4	9	10	7.5	MKP1O111002C
	4	9	13	10	MKP1M011003C	4	9	13	10	MKP1O111003C
1200 "	4	9	10	7.5	MKP1M011202C	4	9	10	7.5	MKP1O111202C
1500 "	4	9	10	7.5	MKP1M011502C	4	9	10	7.5	MKP1O111502C
	4	9	13	10	MKP1M011503C	4	9	13	10	MKP1O111503C
1800 "	4	9	10	7.5	MKP1M011802C	4	9	10	7.5	MKP1O111802C
2200 "	4	9	10	7.5	MKP1M012202C	4	9	10	7.5	MKP1O112202C
	4	9	13	10	MKP1M012203C	4	9	13	10	MKP1O112203C
2700 "	4	9	10	7.5	MKP1M012702C	4	9	10	7.5	MKP1O112702C
3300 "	4	9	10	7.5	MKP1M013302C	4	9	10	7.5	MKP1O113302C
	4	9	13	10	MKP1M013303C	4	9	13	10	MKP1O113303C
3900 "	4.5	9.5	10.3	7.5	MKP1M013902D	4.5	9.5	10.3	7.5	MKP1O113902D
4700 "	4.5	9.5	10.3	7.5	MKP1M014702D	4.5	9.5	10.3	7.5	MKP1O114702D
	4	9	13	10	MKP1M014703C	4	9	13	10	MKP1O114703C
5600 "	5.7	12.5	10.3	7.5	MKP1M015602F	5.7	12.5	10.3	7.5	MKP1O115602F
6800 "	5.7	12.5	10.3	7.5	MKP1M016802F	5.7	12.5	10.3	7.5	MKP1O116802F
	5	11	13	10	MKP1M016803F	5	11	13	10	MKP1O116803F
8200 "	5	11	13	10	MKP1M018203F	5	11	13	10	MKP1O118203F
0.01 µF	5	11	13	10	MKP1M021003F	5	11	13	10	MKP1O121003F
	5	11	18	15	MKP1M021004B	5	11	18	15	MKP1O121004B
0.012 "	6	12	13	10	MKP1M021203G	6	12	13	10	MKP1O121203G
0.015 "	6	12	13	10	MKP1M021503G	6	12	13	10	MKP1O121503G
	5	11	18	15	MKP1M021504B	5	11	18	15	MKP1O121504B
0.018 "	6	12.5	18	15	MKP1M021804C	6	12.5	18	15	MKP1O121804C
0.022 "	6	12.5	18	15	MKP1M022204C	6	12.5	18	15	MKP1O122204C
	6	15	26.5	22.5	MKP1M022205B	6	15	26.5	22.5	MKP1O122205B
0.027 "	7	14	18	15	MKP1M022704D	7	14	18	15	MKP1O122704D
0.033 "	7	14	18	15	MKP1M023304D	7	14	18	15	MKP1O123304D
	6	15	26.5	22.5	MKP1M023305B	6	15	26.5	22.5	MKP1O123305B
0.039 "	8	15	18	15	MKP1M023904F	8	15	18	15	MKP1O123904F
0.047 "	8	15	18	15	MKP1M024704F	8	15	18	15	MKP1O124704F
	6	15	26.5	22.5	MKP1M024705B	6	15	26.5	22.5	MKP1O124705B
0.056 "	7	16.5	26.5	22.5	MKP1M025605D	7	16.5	26.5	22.5	MKP1O125605D
0.068 "	7	16.5	26.5	22.5	MKP1M026805D	7	16.5	26.5	22.5	MKP1O126805D
0.08 "	7	16.5	26.5	22.5	MKP1M028205D	8.5	18.5	26.5	22.5	MKP1O128205F
0.1 µF	7	16.5	26.5	22.5	MKP1M031005D	8.5	18.5	26.5	22.5	MKP1O131005F
	11	21	31.5	27.5	MKP1M031006B	11	21	31.5	27.5	MKP1O131006B
0.12 "	8.5	18.5	26.5	22.5	MKP1M031205F	11	21	26.5	22.5	MKP1O131205I
0.15 "	8.5	18.5	26.5	22.5	MKP1M031505F	11	21	26.5	22.5	MKP1O131505I
	11	21	31.5	27.5	MKP1M031506B	11	21	31.5	27.5	MKP1O131506B
0.18 "	11	21	26.5	22.5	MKP1M031805I	11	21	31.5	27.5	MKP1O131806B
0.22 "	11	21	26.5	22.5	MKP1M032205I	11	21	31.5	27.5	MKP1O132206B
	11	21	31.5	27.5	MKP1M032206B					
0.27 "	11	21	31.5	27.5	MKP1M033306B	15	26	31.5	27.5	MKP1O132706F
0.33 "	15	26	31.5	27.5	MKP1M033306F	15	26	31.5	27.5	MKP1O133306F
	13	24	41.5	37.5	MKP1M033307C	13	24	41.5	37.5	MKP1O133307C
0.39 "	17	29	31.5	27.5	MKP1M033906G	17	29	31.5	27.5	MKP1O133906G
0.47 "	17	29	31.5	27.5	MKP1M034706G	17	29	31.5	27.5	MKP1O134706G
	13	24	41.5	37.5	MKP1M034707C	13	24	41.5	37.5	MKP1O134707C
0.56 "	17	29	41.5	37.5	MKP1M035607E	20	39.5	31.5	27.5	MKP1O135606J
0.68 "	17	29	41.5	37.5	MKP1M036807E	20	39.5	31.5	27.5	MKP1O136806J
	17	29	41.5	37.5	MKP1M036807E	17	29	41.5	37.5	MKP1O136807E
0.82 "	19	32	41.5	37.5	MKP1M038207F	20	39.5	41.5	37.5	MKP1O138207G

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

** PCM = Printed circuit module = pin spacing

Dims. in mm.

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

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Continuation

General Data

Capacitance	1600 VDC/650 VAC*					2000 VDC/700 VAC*				
	W	H	L	PCM**	Part number	W	H	L	PCM**	Part number
0.1 μ F	11	21	26.5	22.5	MKP1T031005L_____	13	24	31.5	27.5	MKP1U031006D_____
	11	21	31.5	27.5	MKP1T031006B_____					
0.12 "	13	24	31.5	27.5	MKP1T031206D_____	15	26	31.5	27.5	MKP1U031206F_____
0.15 "	13	24	31.5	27.5	MKP1T031506D_____	15	26	31.5	27.5	MKP1U031506F_____
						13	24	41.5	37.5	MKP1U031507C_____
0.18 "	15	26	31.5	27.5	MKP1T031806F_____	17	34.5	31.5	27.5	MKP1U031806I_____
						15	26	31.5	27.5	MKP1T032206F_____
0.22 "	13	24	41.5	37.5	MKP1T032207C_____	17	29	41.5	37.5	MKP1U032207E_____
						17	34.5	31.5	27.5	MKP1T032706I_____
0.27 "	17	34.5	31.5	27.5	MKP1T033306L_____	19	32	41.5	37.5	MKP1U033307F_____
0.39 "	20	39.5	31.5	27.5	MKP1T033906J_____	20	39.5	41.5	37.5	MKP1U033907G_____
0.47 "	19	32	41.5	37.5	MKP1T034707F_____	24	45.5	41.5	37.5	MKP1U035607H_____
0.56 "	20	39.5	41.5	37.5	MKP1T036807G_____	24	45.5	41.5	37.5	MKP1U036807H_____
0.68 "	20	39.5	41.5	37.5	MKP1T038207H_____	35	50	41.5	37.5	MKP1U038207J_____
1.0 μ F	24	45.5	41.5	37.5	MKP1T041007L_____	40	55	41.5	37.5	MKP1U041207K_____
1.2 "	31	46	41.5	37.5	MKP1T041507I_____	35	50	57	52.5	MKP1U041509F_____
1.8 "	40	55	41.5	37.5	MKP1T041807K_____	45	55	57	52.5	MKP1U042209H_____
2.2 "	35	50	57	52.5	MKP1T042209F_____	45	65	57	52.5	MKP1T042709J_____
2.7 "	45	65	57	52.5	MKP1T043309J_____					
3.3 "	45	65	57	52.5	MKP1T043309J_____					

Capacitance	2500 VDC/700 VAC*					Part number	Dims. in mm.
	W	H	L	PCM**			
1000 pF	5	11	18	15	MKP1V011004B_____	Ionisation inception level in isolated cases may be lower than admissible rated AC voltage.	
	6	15	26.5	22.5	MKP1V011005B_____		
1200 "	5	11	18	15	MKP1V011204B_____		
	5	11	18	15	MKP1V011504B_____		
1500 "	6	15	26.5	22.5	MKP1V011505B_____		
	5	11	18	15	MKP1V011804B_____		
1800 "	5	11	18	15	MKP1V012204B_____		
	6	15	26.5	22.5	MKP1V012205B_____		
2200 "	5	11	18	15	MKP1V012704B_____		
	5	11	18	15	MKP1V013304B_____		
2700 "	6	15	26.5	22.5	MKP1V013305B_____		
	6	12.5	18	15	MKP1V013904C_____		
3300 "	6	12.5	18	15	MKP1V014704C_____		
	6	15	26.5	22.5	MKP1V014705B_____		
3900 "	7	14	18	15	MKP1V015604D_____		
	7	14	18	15	MKP1V016804D_____		
4700 "	7	16.5	26.5	22.5	MKP1V016805D_____		
	8.5	18.5	26.5	22.5	MKP1V018205F_____		

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.	

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

** PCM = Printed circuit module = pin spacing

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Continuation

General Data

Capacitance	2500 VDC/700 VAC*					3000 VDC/700 VAC*				
	W	H	L	PCM**	Part number	W	H	L	PCM**	Part number
0.01 µF	8.5	18.5	26.5	22.5	MKP1V021005F	8.5	18.5	26.5	22.5	MKP1W021005F
0.012 "	10.5	19	26.5	22.5	MKP1V021205G	10.5	19	26.5	22.5	MKP1W021205G
0.015 "	10.5	19	26.5	22.5	MKP1V021505G	10.5	19	26.5	22.5	MKP1W021505G
0.018 "	11	21	26.5	22.5	MKP1V021805L	11	21	26.5	22.5	MKP1W021805L
0.022 "	11	21	26.5	22.5	MKP1V022205I	11	21	26.5	22.5	MKP1W022205I
0.027 "	11	21	26.5	22.5	MKP1V022705I	11	21	26.5	22.5	MKP1W022705I
0.033 "	11	21	26.5	22.5	MKP1V023305L	11	21	26.5	22.5	MKP1W023305L
	9	19	31.5	27.5	MKP1V023306A	9	19	31.5	27.5	MKP1W023306A
0.039 "	11	21	31.5	27.5	MKP1V023906B	11	21	31.5	27.5	MKP1W023906B
0.047 "	11	21	31.5	27.5	MKP1V024706B	11	21	31.5	27.5	MKP1W024706B
0.056 "	13	24	31.5	27.5	MKP1V025606D	13	24	31.5	27.5	MKP1W025606D
0.068 "	13	24	31.5	27.5	MKP1V026806D	13	24	31.5	27.5	MKP1W026806D
0.082 "	15	26	31.5	27.5	MKP1V028206F	15	26	31.5	27.5	MKP1W028206F
0.1 µF	15	26	31.5	27.5	MKP1V031006F	15	26	31.5	27.5	MKP1W031006F
	13	24	41.5	37.5	MKP1V031007C	13	24	41.5	37.5	MKP1W031007C
0.12 "	17	34.5	31.5	27.5	MKP1V031206L	17	34.5	31.5	27.5	MKP1W031206L
0.15 "	17	34.5	31.5	27.5	MKP1V031506I	17	34.5	31.5	27.5	MKP1W031506I
	15	26	41.5	37.5	MKP1V031507D	15	26	41.5	37.5	MKP1W031507D
0.18 "	19	32	41.5	37.5	MKP1V031807F	19	32	41.5	37.5	MKP1W031807F
0.22 "	19	32	41.5	37.5	MKP1V032207F	19	32	41.5	37.5	MKP1W032207F
0.27 "	24	45.5	41.5	37.5	MKP1V032707H	24	45.5	41.5	37.5	MKP1W032707H
0.33 "	24	45.5	41.5	37.5	MKP1V033307H	24	45.5	41.5	37.5	MKP1W033307H
	28	38	41.5	37.5	MKP1V033307L	28	38	41.5	37.5	MKP1W033307L
0.39 "	31	46	41.5	37.5	MKP1V033907I	31	46	41.5	37.5	MKP1W033907I
0.47 "	31	46	41.5	37.5	MKP1V034707L	31	46	41.5	37.5	MKP1W034707L
0.56 "	35	50	41.5	37.5	MKP1V035607J	35	50	41.5	37.5	MKP1W035607J
0.68 "	35	50	41.5	37.5	MKP1V036807J	35	50	41.5	37.5	MKP1W036807J
0.82 "	40	55	41.5	37.5	MKP1V038207K	40	55	41.5	37.5	MKP1W038207K
1.0 µF	40	55	41.5	37.5	MKP1V041007K	40	55	41.5	37.5	MKP1W041007K
	35	50	57	52.5	MKP1V041009F	35	50	57	52.5	MKP1W041009F
1.2 "	45	55	57	52.5	MKP1V041209H	45	55	57	52.5	MKP1W041209H
1.5 "	45	55	57	52.5	MKP1V041509H	45	55	57	52.5	MKP1W041509H

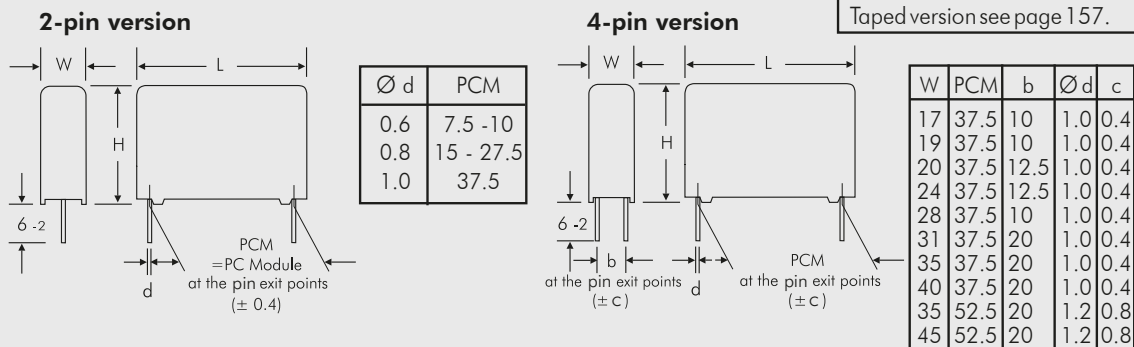
* AC voltage: $f \leq 1000 \text{ Hz}$; $1.4 \times U_{\text{rms}} + \text{UDC} \leq U_r$

** PCM = Printed circuit module = pin spacing

Dims. in mm.

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

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.	

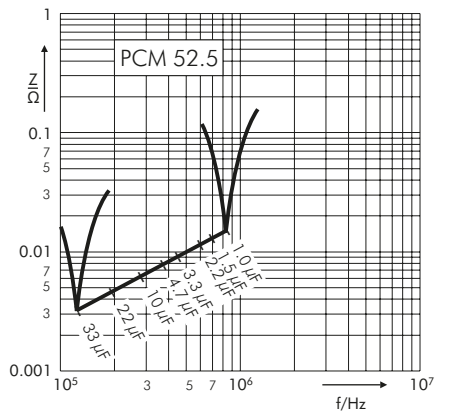
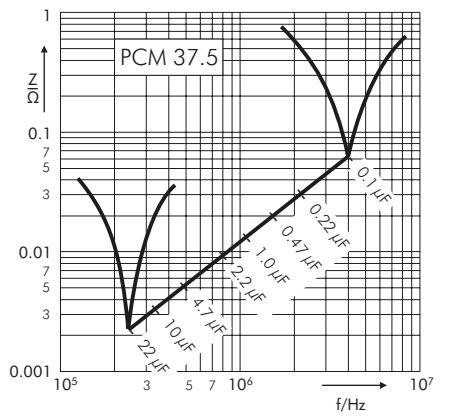
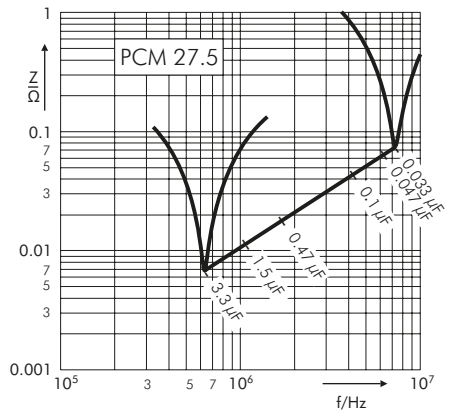
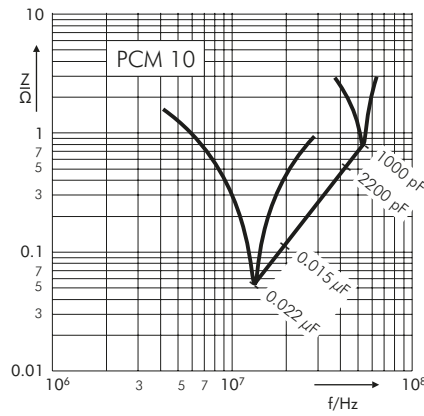


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Continuation page 75

Continuation

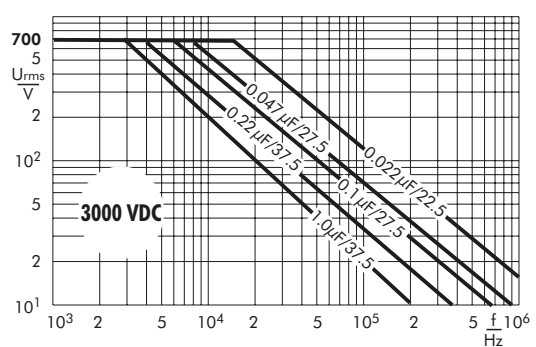
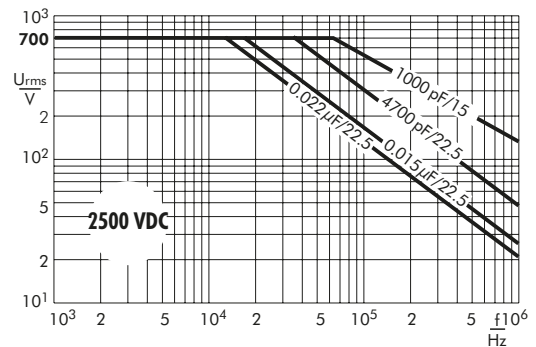
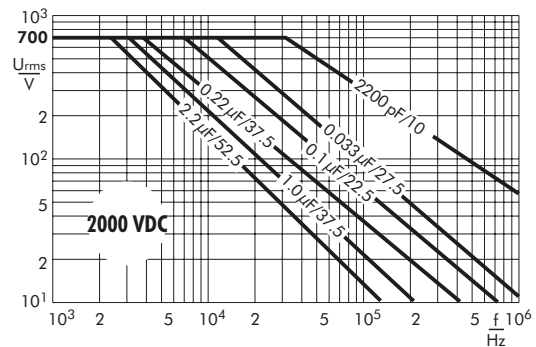
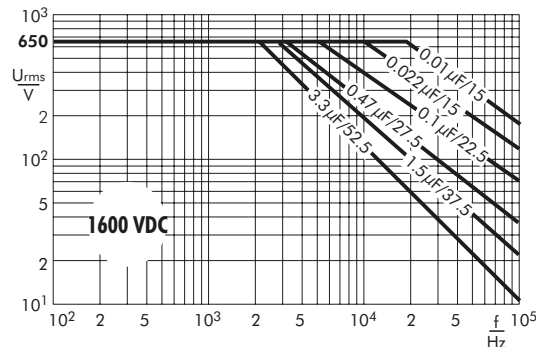
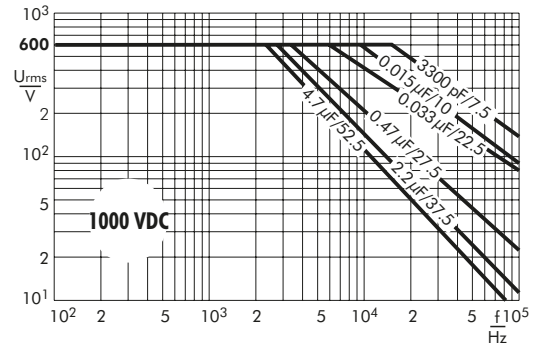
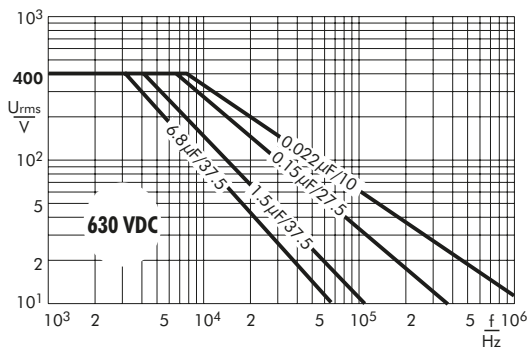
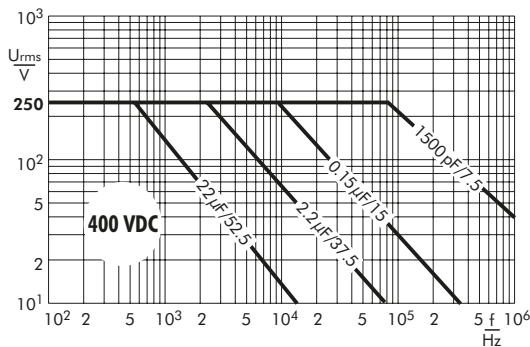
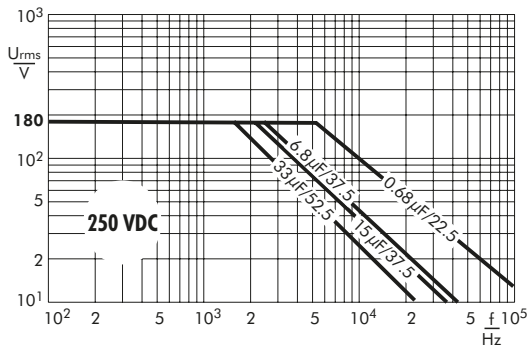
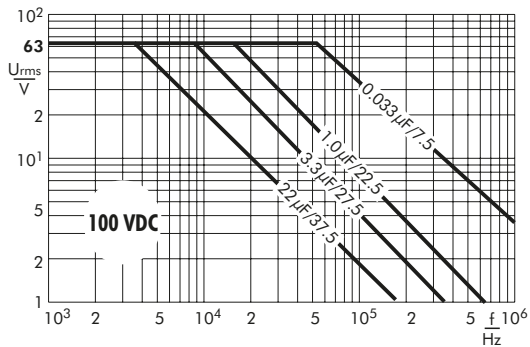
Impedance change with frequency
(general guide).



Continuation

Permissible AC voltage in relation to frequency till 15° C internal temperature rise (general guide).

The information behind the cross bar denote the PCM of the measured value.



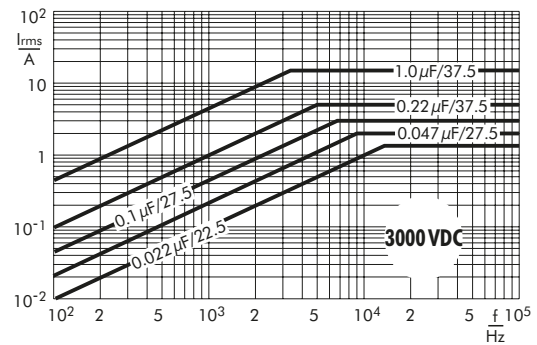
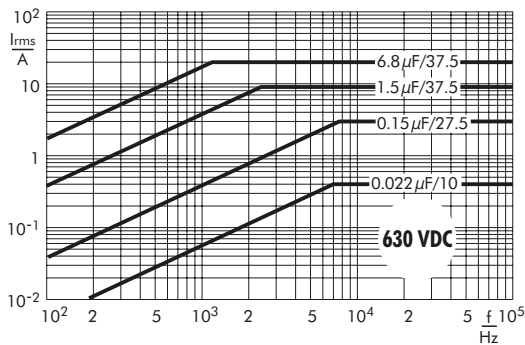
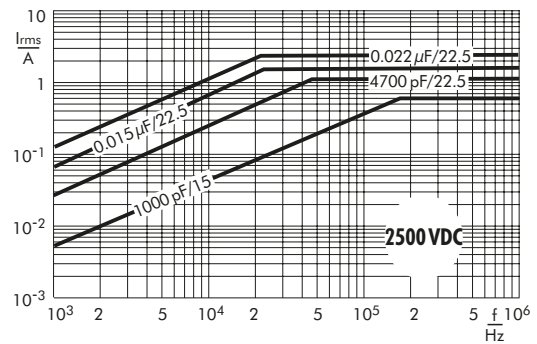
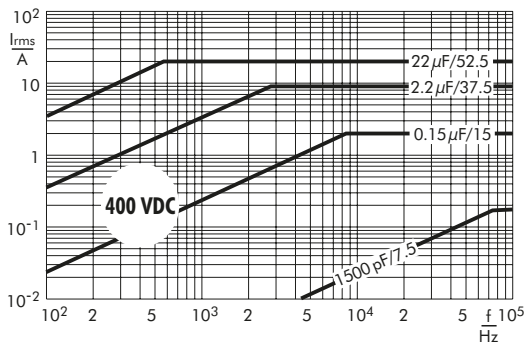
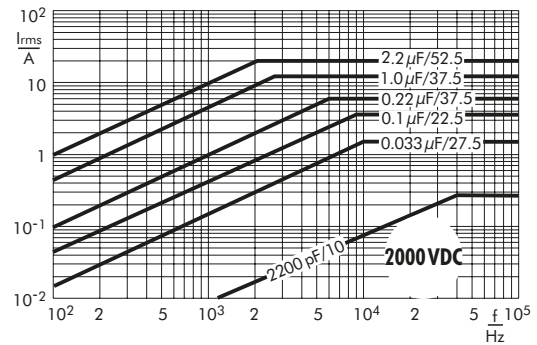
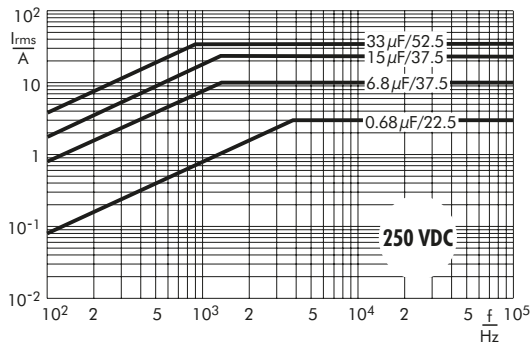
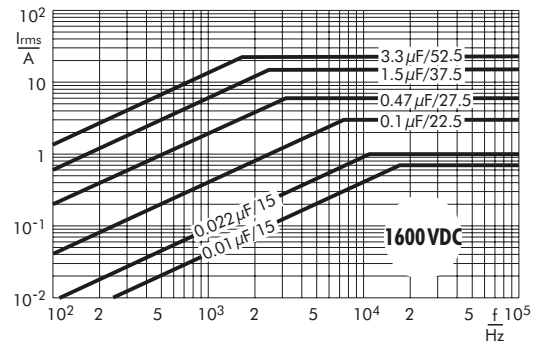
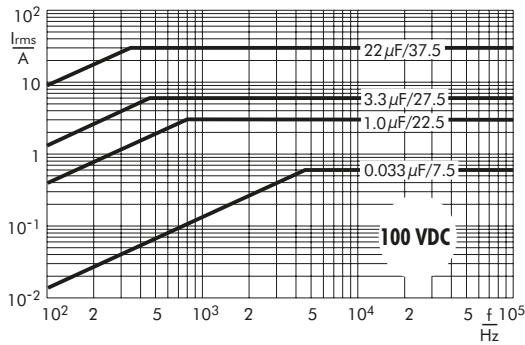
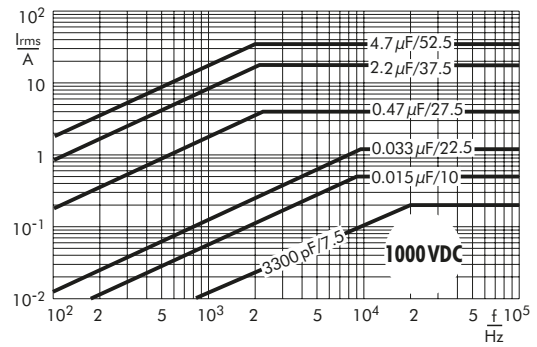
WIMA MKP 10



Continuation

Permissible AC current in relation to frequency till 15° C internal temperature rise (general guide).

The information behind the cross bar denote the PCM of the measured value.



Recommendation for Processing and Application of Through-Hole Capacitors

Soldering Process

Internal temperature of the capacitor must be kept as follows:

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

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

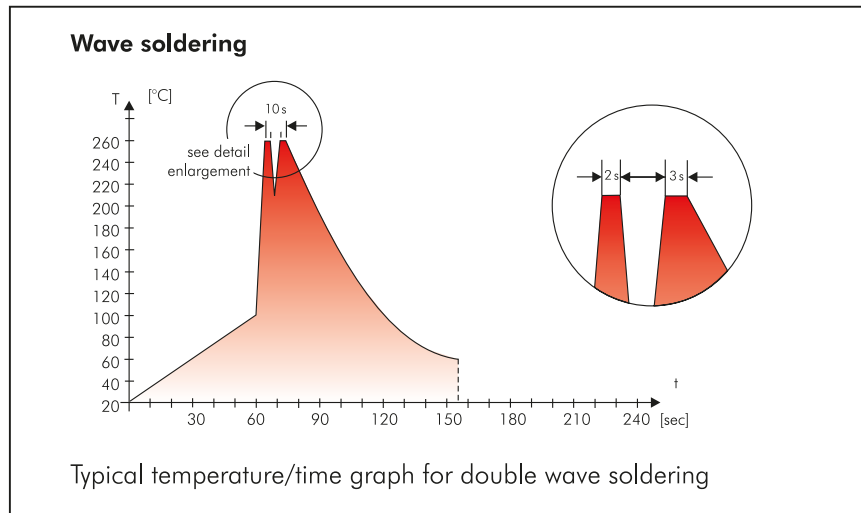
Single wave soldering

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

Double wave soldering

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

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



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
- Chromium 6+
- PBB/PBDE
- Arsenic
- Cadmium
- Mercury
- 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-frained from using such substances since years already.



WIMA Kondensatoren sind bleifrei konform RoHS 2015/863/EU

WIMA capacitors are lead free in accordance with RoHS 2015/863/EU

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

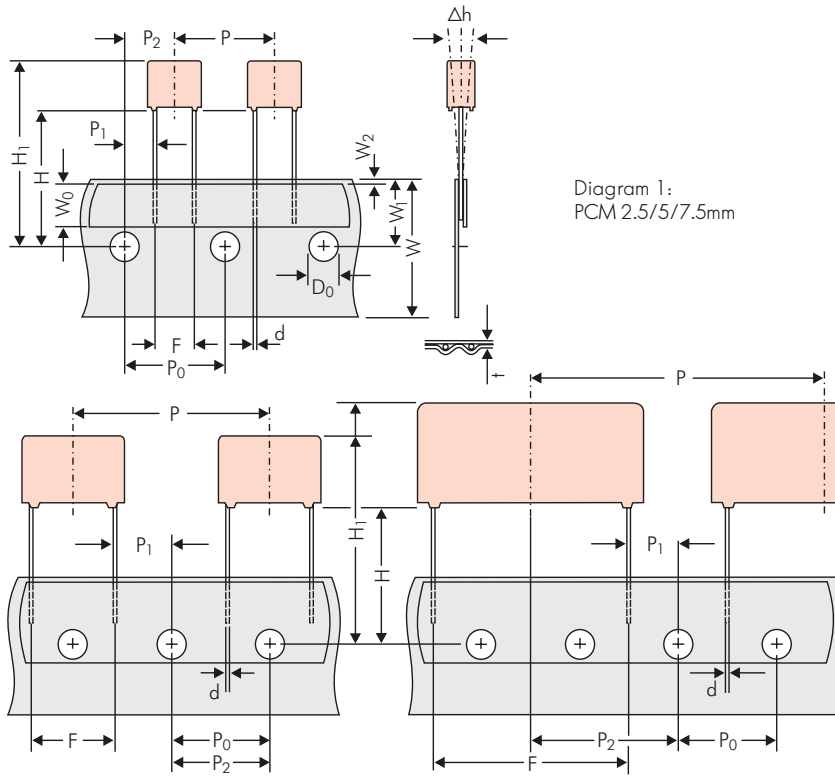


Diagram 1:
PCM 2.5/5/7.5mm

Diagram 2: PCM 10/15 mm

Diagram 3: PCM 22.5 and 27.5*mm

*PCM 27.5 tapping possible with two feed holes between components

Designation	Symbol	Dimensions for Radial Taping							
		PCM 2.5 tapping	PCM 5 tapping	PCM 7.5 tapping	PCM 10 tapping*	PCM 15 tapping*	PCM 22.5 tapping	PCM 27.5 tapping	
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	P	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	12.7 ±0.3 error max. 1.0 mm/20 pitch	12.7 ±0.3 error max. 1.0 mm/20 pitch	12.7 ±0.3 error max. 1.0 mm/20 pitch	12.7 ±0.3 error max. 1.0 mm/20 pitch	12.7 ±0.3 error max. 1.0 mm/20 pitch	12.7 ±0.3 error max. 1.0 mm/20 pitch	12.7 ±0.3 error max. 1.0 mm/20 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 edge of the component	H _▲	16.5 ±0.3 18.5 ±0.5	16.5 ±0.3 18.5 ±0.5	16.5 ±0.5 18.5 ±0.5	16.5 ±0.5 18.5 ±0.5	16.5 ±0.5 18.5 ±0.5	16.5 ±0.5 18.5 ±0.5	16.5 ±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}	•0.5 ±0.05 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	
Package (see also page 158)	▲	ROLL/AMMO			AMMO				
		REEL Ø 360 max. Ø 30 ±1	B 52 ±2 58 ±2	depending on comp. dimensions	REEL Ø 360 max. Ø 30 ±1	B 52 ±2 58 ±2 66 ±2	or REEL Ø 500 max. Ø 25 ±1	B 54 ±2 60 ±2 68 ±2	depending on PCM and component dimensions
Unit		see details page 159.							

▲ 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). P₀ = 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 alphanumeric 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

WIMA Best Capacitors Made in Germany	
Werk Aurich	
Supplier-ID: LIEF.NR.	Date Code: 20210419
Purchase Order No. (P/O): Bestellung xyz	P/O line: 100
Customer Part No.: KUNDENTEILENUMMER	
WIMA Part No.: MKP1F041006B00KSSD	Quantity: 459
WIMA Confirmation No.: 0001105072000100	RoHS 2011/65/EU
	COO: DE
Customer No.: 0000100002	
Gross Weight [g]: 4557	
WIMA – MKP 10	WIMA Part No.: MKP1F041006B00KSSD
MKP 10 1.0 µF 250 VDC 11x21x31.5 RM27.5	
Standard 10% Lose – Standard Drähte 6–2	
Vorlage Debitor Inland	
	0001105072000100
1002021443	QTY: 459 Week 19/2021

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



PCM	Size				bulk	pcs. per packing unit											
						ROLL		REEL				AMMO					
	W	H	L	Codes		S	N	O	Ø 360		Ø 500		340 x 340		490 x 370		
								H16.5	H18.5	H16.5	H18.5	H16.5	H18.5	H16.5	H18.5	H16.5	H18.5
2.5 mm	2.5	7	4.6	0B	5000			2200		2500				2800			
	3	7.5	4.6	0C	5000			2000		2300				2300			
	3.8	8.5	4.6	0D	5000			1500		1800				1800			
	4.6	9	4.6	0E	5000			1200		1500				1500			
	5.5	10	4.6	0F	5000			900		1200				1200			
5 mm	2.5	6.5	7.2	1A	5000			2200		2500				2800			
	3	7.5	7.2	1B	5000			2000		2300				2300			
	3.5	8.5	7.2	1C	5000			1600		2000				2000			
	4.5	6	7.2	1D	6000			1300		1500				1500			
	4.5	9.5	7.2	1E	4000			1300		1500				1500			
	5	10	7.2	1F	3500			1100		1400				1400			
	5.5	7	7.2	1G	4000			1000		1200				1200			
	5.5	11.5	7.2	1H	2500			1000		1200				1200			
	6.5	8	7.2	1I	2500			800		1000				1000			
	7.2	8.5	7.2	1J	2500			700		1000				1000			
	7.2	13	7.2	1K	2000			700		950				1000			
	8.5	10	7.2	1L	2000			600		800				800			
	8.5	14	7.2	1M	1500			600		800				800			
11	16	7.2	1N	1000			500		600				640				
7.5 mm	2.5	7	10	2A	5000					2500		4400		2500			
	3	8.5	10	2B	5000					2200		4300		2300			4150
	4	9	10	2C	4000					1700		3200		1700			3000
	4.5	9.5	10.3	2D	3500					1500		2900		1400			2700
	5	10.5	10.3	2E	3000					1300		2500		1300			
	5.7	12.5	10.3	2F	2000					1000		2200		1100			
	7.2	12.5	10.3	2G	1500					900		1800		1000			
10 mm	3	9	13	3A	3000					1100		2200					1900
	4	9	13	3C	3000					900		1600					1450
	4	9.5	13	3D	3000					900		1600					1400
	5	11	13	3F	3000					700		1300					1100
	6	12	13	3G	2400						550		1100				1000
	6	12.5	13	3H	2400						550		1100				1000
	8	12	13	3I	2000						400		800				740
15 mm	5	11	18	4B	2400					600		1200					1150
	6	12.5	18	4C	2000					500		1000					1000
	7	14	18	4D	1600					450		900					850
	8	15	18	4F	1200					400		800					740
	9	14	18	4H	1200					350		700					650
	9	16	18	4J	900					350		700					650
	11	14	18	4M	1000					300		600					540
22.5 mm	5	14	26.5	5A	1200							800					770
	6	15	26.5	5B	1000							700					640
	7	16.5	26.5	5D	760							600					550
	8.5	18.5	26.5	5F	500							480					450
	10.5	19	26.5	5G	594*							400					360
	10.5	20.5	26.5	5H	594*							400					360
11	21	26.5	5I	561*							380					350	
27.5 mm	9	19	31.5	6A	567*							460/340*					
	11	21	31.5	6B	459*							380/280*					
	13	24	31.5	6D	378*							300					
	15	26	31.5	6F	324*							270					
	17	29	31.5	6G	198*												
	17	34.5	31.5	6I	198*												
	20	39.5	31.5	6J	162*												

* for 2-inch transport pitches.

* TPS (Tray-Packing-System). Plate versions may have different packing units. Samples and pre-production needs on request.

Rights reserved to amend design data without prior notification.



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

PCM	Size				bulk S	pcs. per packing unit									
						ROLL		REEL				AMMO			
	W	H	L	Codes		H16.5	H18.5	Ø 360		Ø 500		340 x 340		490 x 370	
				N	O	F	I	H	J	A	C	B	D		
37.5 mm**	9	19	41.5	7A	441*	–	–	–	–	–	–	–	–		
	11	22	41.5	7B	357*	–	–	–	–	–	–	–	–		
	13	24	41.5	7C	294*	–	–	–	–	–	–	–	–		
	15	26	41.5	7D	252*	–	–	–	–	–	–	–	–		
	17	29	41.5	7E	154*	–	–	–	–	–	–	–	–		
	19	32	41.5	7F	140*	–	–	–	–	–	–	–	–		
	20	39.5	41.5	7G	126*	–	–	–	–	–	–	–	–		
	24	45.5	41.5	7H	112*	–	–	–	–	–	–	–	–		
	28	38	41.5	7L	84*	–	–	–	–	–	–	–	–		
	31	46	41.5	7I	84*	–	–	–	–	–	–	–	–		
	35	50	41.5	7J	35*	–	–	–	–	–	–	–	–		
	40	55	41.5	7K	28*	–	–	–	–	–	–	–	–		
48.5 mm**	19	31	56	8D	120*	–	–	–	–	–	–	–			
	23	34	56	8E	80*	–	–	–	–	–	–	–			
	27	37.5	56	8H	84*	–	–	–	–	–	–	–			
	33	48	56	8J	25*	–	–	–	–	–	–	–			
	37	54	56	8L	25*	–	–	–	–	–	–	–			
52.5 mm	25	45	57	9D	70*	–	–	–	–	–	–	–			
	30	45	57	9E	60*	–	–	–	–	–	–	–			
	35	50	57	9F	25*	–	–	–	–	–	–	–			
	45	55	57	9H	20*	–	–	–	–	–	–	–			
	45	65	57	9J	20*	–	–	–	–	–	–	–			

* 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.

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Updated data on www.wima.com



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	K	S	2	C	0	2	1	0	0	1	A	0	0	M	S	S	D
MKS 2				63 VDC		0.01 µF			2.5x6.5x7.2			-		20%	bulk	6 -2	

<p>Type description:</p> <p>SMD-PET = SMDT SMD-PEN = SMDN SMD-PPS = SMDI FKP 02 = FKPO MKS 02 = MKSO 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-Y2 = MKY2 MKP 4F = MKPF Snubber MKP = SNMP Snubber FKP = SNFP GTO MKP = GTOM DC-LINK MKP 4 = DCP4 DC-LINK MKP 6 = DCP6 DC-LINK HC = DCHC</p>	<p>Rated voltage:</p> <p>50 VDC = B0 63 VDC = C0 100 VDC = D0 250 VDC = F0 400 VDC = G0 450 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 = P0 1200 VDC = Q0 1250 VDC = R0 1500 VDC = S0 1600 VDC = T0 1700 VDC = TA 2000 VDC = U0 2500 VDC = V0 3000 VDC = W0 4000 VDC = X0 6000 VDC = Y0 230 VAC = 3Y 275 VAC = 1W 300 VAC = 2W 305 VAC = AW 350 VAC = BW 440 VAC = 4W ...</p>	<p>Capacitance:</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 1000 µF = 7100 1500 µF = 7150 ...</p>	<p>Size:</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 = YA 15.3x13.7x7 Size 6054 = YA 2.5x7x4.6 PCM2.5 = 0B 3x7.5x4.6 PCM2.5 = 0C 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 = 3C 5x11x18 PCM15 = 4B 6x12.5x18 PCM15 = 4C 5x14x26.5 PCM22.5 = 5A 6x15x26.5 PCM22.5 = 5B 9x19x31.5 PCM27.5 = 6A 11x21x31.5 PCM27.5 = 6B 9x19x41.5 PCM37.5 = 7A 11x22x41.5 PCM37.5 = 7B 19x31x56 PCM 48.5 = 8D 25x45x57 PCM 52.5 = 9D ...</p>	<p>Tolerance:</p> <p>±20% = M ±10% = K ±5% = J ±2.5% = H ±1% = E ...</p> <p>Packing:</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/TPS Standard = S ...</p>
			<p>Version code:</p> <p>Standard = 00 Version A1 = 1A Version A1.1.1 = 1B Version A2 = 2A ...</p>	<p>Pin length (untaped)</p> <p>3.5 ±0.5 = C9 6 -2 = SD 16 ±1 = P1 ...</p> <p>Pin length (taped)</p> <p>none = 00</p>

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.

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