

## Polypropylene (PP) Film and Foil Capacitors for Pulse Applications PCM 7.5 mm to 15 mm

### Special Features

- Pulse duty construction
- Very low dissipation factor
- Negative capacitance change versus temperature
- Very low dielectric absorption
- According to RoHS 2002/95/EC

### Typical Applications

For high frequency applications e.g.

- Sample and hold
- Timing
- LC-Filtering
- Oscillating circuits
- Audio equipment

### Construction

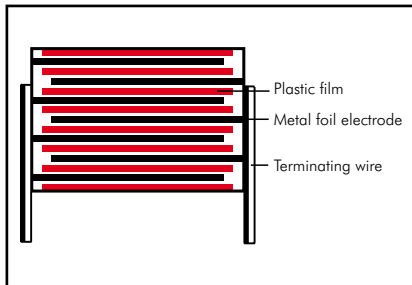
#### Dielectric:

Polypropylene (PP) film

#### Capacitor electrodes:

Metal foil

#### 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.

Epoxy resin seal: Yellow

### Electrical Data

#### Capacitance range:

100 pF to 0.22 μF (E12-values on request)

#### Rated voltages:

63 VDC, 100 VDC, 250 VDC, 400 VDC, 630 VDC, 1000 VDC

#### Capacitance tolerances:

±20%, ±10%, ±5%

#### Operating temperature range:

-55° C to +100° C

#### Test specifications:

In accordance with IEC 60384-13 and EN 131 800

#### Climatic test category:

55/100/56 in accordance with IEC

#### Insulation resistance at +20° C:

≥ 5 × 10<sup>5</sup> MΩ

(mean value: 1 × 10<sup>6</sup> MΩ)

Measuring voltage:

U<sub>r</sub> = 63 V: U<sub>test</sub> = 50 V/1 min.

U<sub>r</sub> ≥ 100 V: U<sub>test</sub> = 100 V/1 min.

#### Test voltage: 2 U<sub>r</sub>, 2 sec.

#### Maximum pulse rise time:

1000 V/μsec for pulses equal to the rated voltage

#### Dielectric absorption:

0.05 %

#### Temperature coefficient:

-200 × 10<sup>-6</sup>/° C (general guide)

#### Dissipation factors at +20° C: tan δ

at f	C ≤ 0.1 μF	0.1 μF < C ≤ 0.22 μF
1 kHz	≤ 4 × 10 <sup>-4</sup>	≤ 3 × 10 <sup>-4</sup>
10 kHz	≤ 5 × 10 <sup>-4</sup>	≤ 6 × 10 <sup>-4</sup>
100 kHz	≤ 10 × 10 <sup>-4</sup>	-

#### 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 < 5 fit (0.5 × U<sub>r</sub> and 40° C)

### Mechanical Tests

#### Pull test on pins:

10 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:

1 kPa = 10 mbar in accordance with IEC 60068-2-13

#### Bump test:

4000 bumps at 390 m/sec<sup>2</sup> in accordance with IEC 60068-2-29

### Packing

Available taped and reeled.

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

For further details and graphs please refer to Technical Information.



## Continuation

### General Data

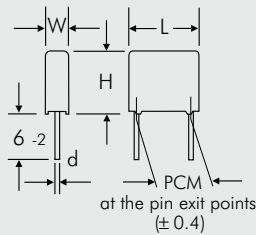
Capacitance	630 VDC/300 VAC*					1000 VDC/300 VAC*				
	W	H	L	PCM**	Part number	W	H	L	PCM**	Part number
100 pF	3	8.5	10	<b>7.5</b>	FKP3J001002B00_____	3	8.5	10	<b>7.5</b>	FKP3O101002B00_____
150 "	3	8.5	10	<b>7.5</b>	FKP3J001502B00_____	3	8.5	10	<b>7.5</b>	FKP3O101502B00_____
220 "	3	8.5	10	<b>7.5</b>	FKP3J002202B00_____	3	8.5	10	<b>7.5</b>	FKP3O102202B00_____
330 "	3	8.5	10	<b>7.5</b>	FKP3J003302B00_____	3	8.5	10	<b>7.5</b>	FKP3O103302B00_____
470 "	3	8.5	10	<b>7.5</b>	FKP3J004702B00_____	3	8.5	10	<b>7.5</b>	FKP3O104702B00_____
680 "	3	8.5	10	<b>7.5</b>	FKP3J006802B00_____	3	8.5	10	<b>7.5</b>	FKP3O106802B00_____
1000 pF	4	9	10	<b>7.5</b>	FKP3J011002C00_____	4	9	10	<b>7.5</b>	FKP3O111002C00_____
1500 "	4	9.5	13	10	FKP3J011503D00_____	4	9.5	13	10	FKP3O111503D00_____
2200 "	4	9.5	13	10	FKP3J012203D00_____	4	9.5	13	10	FKP3O112203D00_____
3300 "	5	11	13	10	FKP3J013303F00_____	5	11	13	10	FKP3O113303F00_____
4700 "	6	12	13	10	FKP3J014703G00_____	6	12	13	10	FKP3O114703G00_____
6800 "	5	11	18	15	FKP3J016804B00_____	5	11	18	15	FKP3O116804B00_____
0.01 µF	6	12.5	18	15	FKP3J021004C00_____	6	12.5	18	15	FKP3O121004C00_____
0.015 "	8	15	18	15	FKP3J021504F00_____	8	15	18	15	FKP3O121504F00_____
0.022 "	9	16	18	15	FKP3J022204J00_____	9	16	18	15	FKP3O122204J00_____
0.033 "	9	16	18	15	FKP3J023304J00_____	9	16	18	15	FKP3O123304J00_____

\* 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.

$d = 0.5 \varnothing$  if  $W = 3$   
 $d = 0.6 \varnothing$  if  $W \geq 4$   
 $d = 0.8 \varnothing$  if  $\text{PCM} = 15$



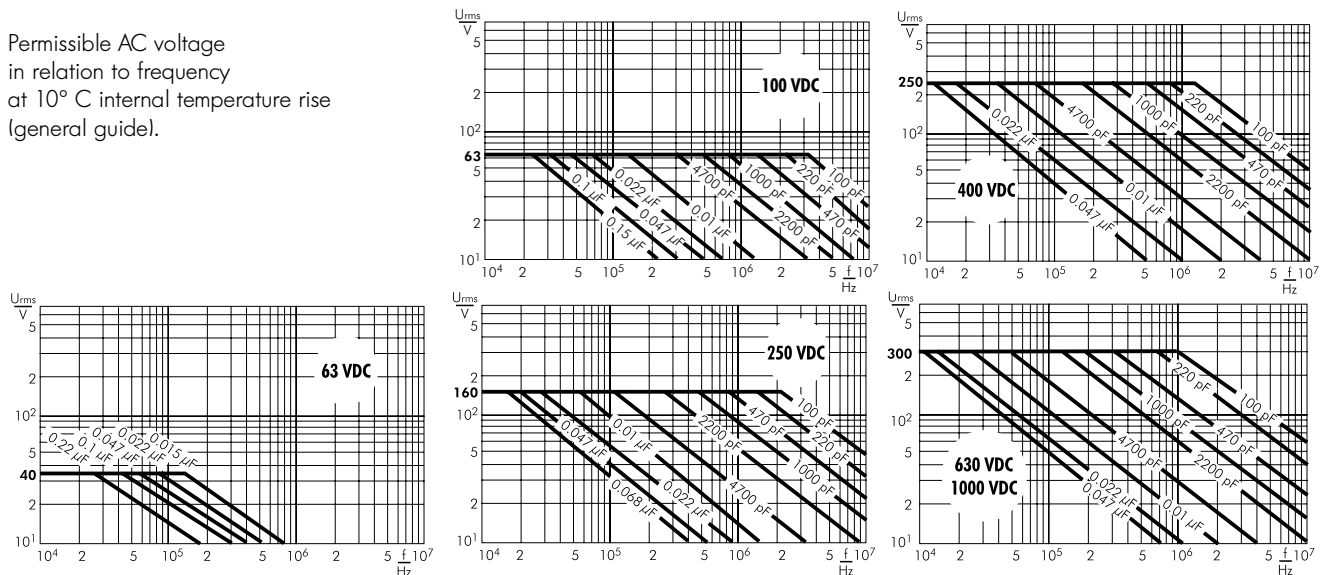
Part number completion:

Tolerance: 20 % = M  
 10 % = K  
 5 % = J  
 Packing: bulk = S  
 Pin length: 6-2 = SD

Taped version see page 127.

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



## Recommendation for Processing and Application of Through-Hole Capacitors

### Soldering Process

A preheating of through-hole WIMA capacitors is allowed for temperatures  $T_{\max} < 100^{\circ}\text{C}$ . In practice a preheating duration of  $t < 5$  min. has been proven to be best.

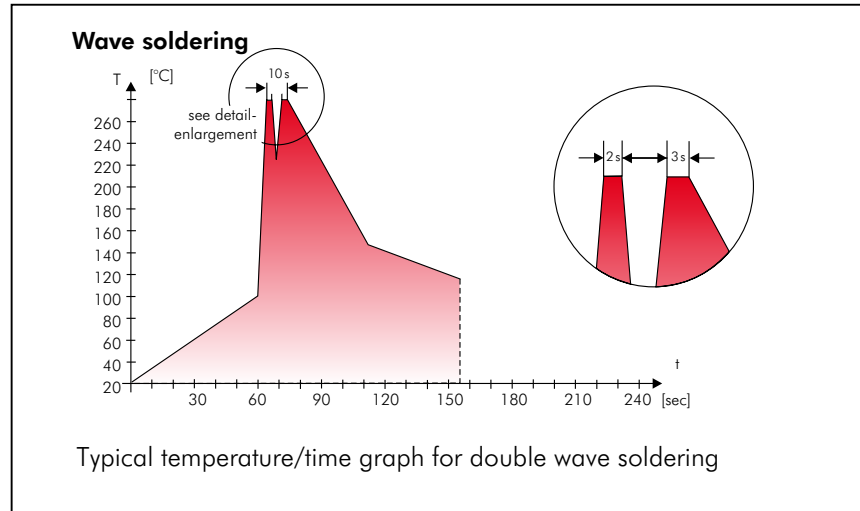
#### Single wave soldering

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

#### Double wave soldering

Soldering bath temperature:  $T < 260^{\circ}\text{C}$   
Immersion time:  $2 \times t < 3$  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 9001:2008 Certification

ISO 9001:2008 is an international basic standard of quality assurance systems for all branches of industry. The approval according to ISO 9001:2008 of our factories by the VDE inspectorate 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 of WPCS during production process:

- incoming material inspection
- metallization
- film inspection
- schoopage
- pre-healing
- pin attachment
- cast resin preparation/encapsulation
- 100% final inspection
- AQL check

### 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:

- foamed polystyrene (Styropor®)
- adhesive tapes made of plastic
- metal clips

### RoHS Compliance

According to the RoHS Directive 2002/95/EC 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 refrained from using such substances since years already.



WIMA Kondensatoren sind bleifrei konform RoHS 2002/95/EG

WIMA capacitors are lead free in accordance with RoHS 2002/95/EC

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

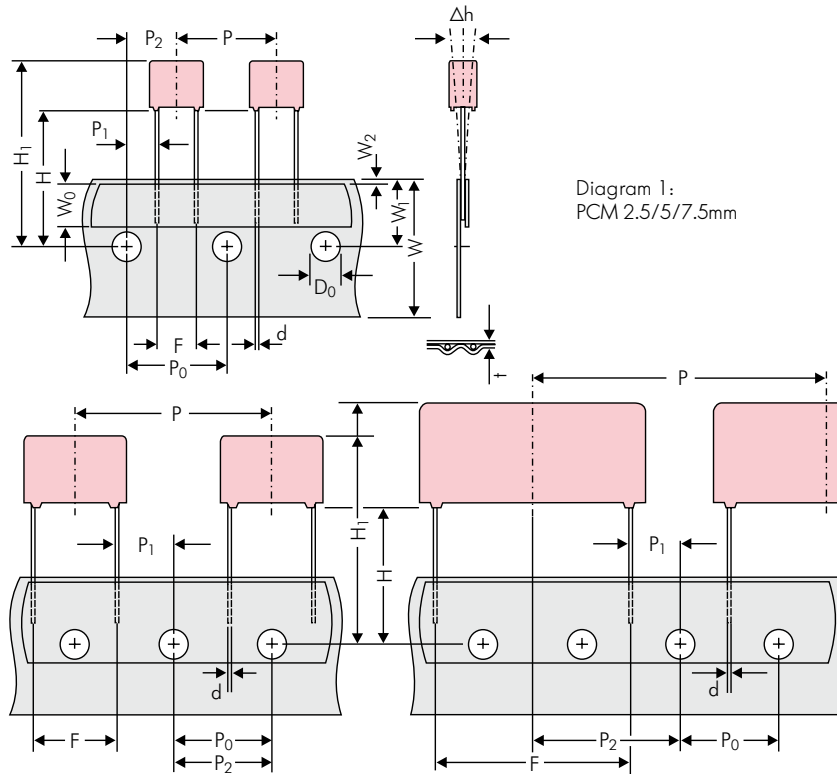


Diagram 1:  
PCM 2.5/5/7.5mm

Diagram 2: PCM 10/15 mm

Diagram 3: PCM 22.5 and 27.5\*mm

\*PCM 27.5 taping possible with two feed holes between components

Designation	Symbol	Dimensions for Radial Taping						
		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 <sub>0</sub>	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 <sub>1</sub>	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 <sub>2</sub>	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 <sub>0</sub>	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 <sub>0</sub>	12.7 ±0.3 cumulative pitch error max. 1.0 mm/20 pitch	12.7 ±0.3 cumulative pitch error max. 1.0 mm/20 pitch	12.7 ±0.3 cumulative pitch error max. 1.0 mm/20 pitch	12.7 ±0.3 cumulative pitch error max. 1.0 mm/20 pitch	12.7 ±0.3 cumulative pitch error max. 1.0 mm/20 pitch	12.7 ±0.3 cumulative pitch error max. 1.0 mm/20 pitch	12.7 ±0.3 cumulative pitch error max. 1.0 mm/20 pitch
Feed hole centre to pin	P <sub>1</sub>	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 <sub>2</sub>	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 <sub>1</sub>	H+H <sub>component</sub> < H <sub>1</sub> 32.25 max.	H+H <sub>component</sub> < H <sub>1</sub> 32.25 max.	H+H <sub>component</sub> < H <sub>1</sub> 24.5 to 31.5	H+H <sub>component</sub> < H <sub>1</sub> 25.0 to 31.5	H+H <sub>component</sub> < H <sub>1</sub> 26.0 to 37.0	H+H <sub>component</sub> < H <sub>1</sub> 30.0 to 43.0	H+H <sub>component</sub> < H <sub>1</sub> 35.0 to 45.0
Pin spacing at upper edge of carrier tape	F	2.5 ±0.5	5.0 <sup>+0.8</sup> <sub>-0.2</sub>	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 <sup>+0.06</sup> <sub>-0.05</sub>	0.5 ±0.05 or 0.6 <sup>+0.06</sup> <sub>-0.05</sub>	0.8 <sup>+0.08</sup> <sub>-0.05</sub>	0.8 <sup>+0.08</sup> <sub>-0.05</sub>	0.8 <sup>+0.08</sup> <sub>-0.05</sub>
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	0.7 ±0.2	0.7 ±0.2	0.7 ±0.2	0.7 ±0.2	0.7 ±0.2	0.7 ±0.2	0.7 ±0.2
Package (see also page 128)	ROLL/AMMO			AMMO				
	REEL	φ 360 max. φ 30 ±1	B 52 ±2 58 ±2 } depending on comp. dimensions	REEL	φ 360 max. φ 30 ±1	52 ±2 58 ±2 or 66 ±2	REEL	φ 500 max. φ 25 ±1
Unit	see details page 130.							

Dims in mm.

\* Diameter of pins see General Data.

\* PCM 10 and PCM 15 can be crimped to PCM 7.5.

Position of components according to PCM 7.5 (sketch 11). P<sub>0</sub> = 12.7 or 15.0 is possible

Please clarify customer-specific deviations with the manufacturer.

# Packing Quantities for Capacitors with Radial Pins in PCM 2.5 mm to 22.5 mm



PCM	Size				bulk	pcs. per packing unit								
						ROLL		REEL				AMMO		
	W	H	L	Codes		S	H16.5	H18.5	ø 360	ø 500	340 x 340	490 x 370		
					N	O	F	I	H	J	A	C	B	D
<b>2.5 mm</b>	2.5	7	4.6	<b>0B</b>	5000		2200	2500				2800		
	3	7.5	4.6	<b>0C</b>	5000		2000	2300				2300		
	3.8	8.5	4.6	<b>0D</b>	5000		1500	1800				1800		
	4.6	9	4.6	<b>0E</b>	5000		1200	1500				1500		
	5.5	10	4.6	<b>0F</b>	5000		900	1200				1200		
<b>5 mm</b>	2.5	6.5	7.2	<b>1A</b>	5000		2200	2500				2800		
	3	7.5	7.2	<b>1B</b>	5000		2000	2300				2300		
	3.5	8.5	7.2	<b>1C</b>	5000		1600	2000				2000		
	4.5	6	7.2	<b>1D</b>	6000		1300	1500				1500		
	4.5	9.5	7.2	<b>1E</b>	4000		1300	1500				1500		
	5	10	7.2	<b>1F</b>	3500		1100	1400				1400		
	5.5	7	7.2	<b>1G</b>	4000		1000	1200				1200		
	5.5	11.5	7.2	<b>1H</b>	2500		1000	1200				1200		
	6.5	8	7.2	<b>1I</b>	2500		800	1000				1000		
	7.2	8.5	7.2	<b>1J</b>	2500		700	1000				1000		
	7.2	13	7.2	<b>1K</b>	2000		700	950				1000		
	8.5	10	7.2	<b>1L</b>	2000		600	800				800		
8.5	14	7.2	<b>1M</b>	1500		600	800				800			
11	16	7.2	<b>1N</b>	1000		500	700				700			
<b>7.5 mm</b>	2.5	7	10	<b>2A</b>	5000			2500	4400			2500		
	3	8.5	10	<b>2B</b>	5000			2200	4300			2300	4150	
	4	9	10	<b>2C</b>	4000			1700	3200			1700	3100	
	4.5	9.5	10.3	<b>2D</b>	3500			1500	2900			1400	2800	
	5	10.5	10.3	<b>2E</b>	3000			1300	2500			1300		
	5.7	12.5	10.3	<b>2F</b>	2000			1000	2200			1100		
	7.2	12.5	10.3	<b>2G</b>	1500			900	1800			1000		
<b>10 mm</b>	3	9	13	<b>3A</b>	3000			1100	2200				1900	
	4	8.5	13.5	<b>FA</b>	3000			900	1600				1450	
	4	9	13	<b>3C</b>	3000			900	1600				1450	
	4	9.5	13	<b>3D</b>	3000			900	1600				1400	
	5	10	13.5	<b>FB</b>	2000			700	1300				1200	
	5	11	13	<b>3F</b>	3000			700	1300				1200	
	6	12	13	<b>3G</b>	2400			550	1100				1000	
	6	12.5	13	<b>3H</b>	2400			550	1100				1000	
8	12	13	<b>3I</b>	2000			400	800				740		
<b>15 mm</b>	5	11	18	<b>4B</b>	2400			600	1200				1150	
	5	13	19	<b>FC</b>	1000			600	1200				1200	
	6	12.5	18	<b>4C</b>	2000			500	1000				1000	
	6	14	19	<b>FD</b>	1000			500	1000				1000	
	7	14	18	<b>4D</b>	1600			450	900				850	
	7	15	19	<b>FE</b>	1000			450	900				850	
	8	15	18	<b>4F</b>	1200			400	800				740	
	8	17	19	<b>FF</b>	500			400	800				740	
	9	14	18	<b>4H</b>	1200			350	700				650	
	9	16	18	<b>4J</b>	900			350	700				650	
	10	18	19	<b>FG</b>	500			300	650				590	
11	14	18	<b>4M</b>	1000			300	600				540		
<b>22.5 mm</b>	5	14	26.5	<b>5A</b>	1200				800				770	
	6	15	26.5	<b>5B</b>	1000				700				640	
	7	16.5	26.5	<b>5D</b>	760				600				550	
	8	20	28	<b>FH</b>	500				500				480	
	8.5	18.5	26.5	<b>5F</b>	500				480				450	
	10	22	28	<b>FI</b>	540*				420				380	
	10.5	19	26.5	<b>5G</b>	680*				400				360	
	10.5	20.5	26.5	<b>5H</b>	680*				400				360	
	11	21	26.5	<b>5I</b>	680*				380				350	
	12	24	28	<b>FJ</b>	450*				350				310	

\* Tray Packing-System  
Samples and pre-production needs on request.

■ Moulded versions.

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## Packing Quantities for Capacitors with Radial Pins in PCM 2.5 mm to 22.5 mm

PCM	Size				bulk	pcs. per packing units								
						ROLL		REEL				AMMO		
	W	H	L	Codes		S	H16.5	H18.5	ø 360		ø 500		340 × 340	
					N	O	F	I	H	J	A	C	B	D
<b>27.5 mm</b>	9	19	31.5	<b>6A</b>	640*	–	–	–	–	460/340*	–	–	–	420
	11	21	31.5	<b>6B</b>	544*	–	–	–	–	380/280*	–	–	–	350
	13	24	31.5	<b>6D</b>	448*	–	–	–	–	300	–	–	–	290
	13	25	33	<b>6K</b>	336*	–	–	–	–	270	–	–	–	250
	15	26	31.5	<b>6F</b>	384*	–	–	–	–	–	–	–	–	–
	15	26	33	<b>6L</b>	288*	–	–	–	–	–	–	–	–	–
	17	29	31.5	<b>6G</b>	176*	–	–	–	–	–	–	–	–	–
	17	34.5	31.5	<b>6I</b>	176*	–	–	–	–	–	–	–	–	–
	19	30	31.5	<b>6L</b>	50*	–	–	–	–	–	–	–	–	–
	20	32	33	<b>6M</b>	216*	–	–	–	–	–	–	–	–	–
20	39.5	31.5	<b>6J</b>	144*	–	–	–	–	–	–	–	–	–	
<b>37.5 mm</b>	9	19	41.5	<b>7A</b>	480*	–	–	–	–	–	–	–	–	–
	11	22	41.5	<b>7B</b>	408*	–	–	–	–	–	–	–	–	–
	13	24	41.5	<b>7C</b>	252*	–	–	–	–	–	–	–	–	–
	15	26	41.5	<b>7D</b>	144*	–	–	–	–	–	–	–	–	–
	17	29	41.5	<b>7E</b>	132*	–	–	–	–	–	–	–	–	–
	19	32	41.5	<b>7F</b>	108*	–	–	–	–	–	–	–	–	–
	20	39.5	41.5	<b>7G</b>	108*	–	–	–	–	–	–	–	–	–
	24	45.5	41.5	<b>7H</b>	84*	–	–	–	–	–	–	–	–	–
	31	46	41.5	<b>7I</b>	72*	–	–	–	–	–	–	–	–	–
	35	50	41.5	<b>7J</b>	35*	–	–	–	–	–	–	–	–	–
40	55	41.5	<b>7K</b>	28*	–	–	–	–	–	–	–	–	–	
<b>48.5 mm</b>	19	31	56	<b>8D</b>	50*	–	–	–	–	–	–	–	–	–
	23	34	56	<b>8E</b>	72*	–	–	–	–	–	–	–	–	–
	27	37.5	56	<b>8H</b>	60*	–	–	–	–	–	–	–	–	–
	33	48	56	<b>8J</b>	48*	–	–	–	–	–	–	–	–	–
	37	54	56	<b>8L</b>	25*	–	–	–	–	–	–	–	–	–
<b>52.5 mm</b>	35	50	57	<b>9F</b>	25*	–	–	–	–	–	–	–	–	–
	45	55	57	<b>9H</b>	20*	–	–	–	–	–	–	–	–	–
	45	65	57	<b>9J</b>	20*	–	–	–	–	–	–	–	–	–

\* for 2-inch transport pitches.

\* Tray Packing System

Samples and pre-production needs on request.

■ Moulded versions.

Rights reserved to amend design data without prior notification.



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  MKS 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.