

**Polyester (PET) Film/Foil Capacitors for Pulse Applications
in PCM 7.5 mm to 15 mm. Capacitances from 1000 pF to 0.22 µF.
Rated Voltages from 100 VDC to 630 VDC.**

Special Features

- Pulse duty construction
- According to RoHS 2011/65/EU

Typical Applications

For general DC-applications e.g.

- Coupling
- Decoupling

Construction

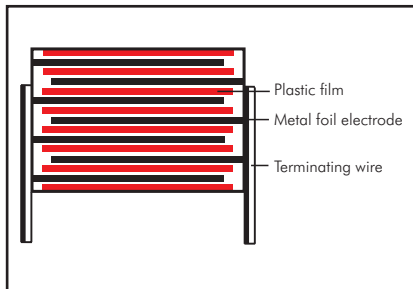
Dielectric:

Polyethylene-terephthalate (PET) 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.

Electrical Data

Capacitance range:

1000 pF to 0.22 µF (E12-values on request)

Rated voltages:

100 VDC, 250 VDC, 400 VDC, 630 VDC

Capacitance tolerances:

± 20%, ±10%, ±5%,

Operating temperature range:

-55° C to +100° C

Test specifications:

In accordance with IEC 60384-11

Climatic test category:

55/100/56 in accordance with IEC

Insulation resistance at +20° C:

≥ 1 x 10⁵ MΩ

Measuring voltage: 100 V/1 min.

Test voltage: 2 U_r, 2 sec.

Maximum pulse rise time:

1000 V/µsec for pulses equal to the rated voltage

Dissipation factors at +20° C: tan δ

at f	C ≤ 0,22 µF
1 kHz	≤ 7 x 10 ⁻³
10 kHz	≤ 15 x 10 ⁻³
100 kHz	≤ 20 x 10 ⁻³

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:

Operational life > 300 000 hours
Failure rate < 5 fit (0.5 x U_r 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/sec² 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

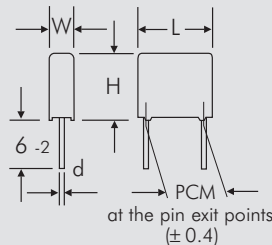
Capacitance	100 VDC/63 VAC*					250 VDC/160 VAC*				
	W	H	L	PCM**	Part number	W	H	L	PCM**	Part number
1000 pF	3	8.5	10	7.5	FKS3D011002B00_____	3	8.5	10	7.5	FKS3F011002B00_____
1500 "	3	8.5	10	7.5	FKS3D011502B00_____	3	8.5	10	7.5	FKS3F011502B00_____
2200 "	3	8.5	10	7.5	FKS3D012202B00_____	3	8.5	10	7.5	FKS3F012202B00_____
3300 "	3	8.5	10	7.5	FKS3D013302B00_____	3	8.5	10	7.5	FKS3F013302B00_____
4700 "	3	8.5	10	7.5	FKS3D014702B00_____	3	8.5	10	7.5	FKS3F014702B00_____
6800 "	3	8.5	10	7.5	FKS3D016802B00_____	3	9	13	10	FKS3F014703A00_____
						3	8.5	10	7.5	FKS3F016802B00_____
						3	9	13	10	FKS3F016803A00_____
0.01 µF	3	8.5	10	7.5	FKS3D021002B00_____	3	9	13	10	FKS3F021003A00_____
0.015 "	3	9	13	10	FKS3D021003A00_____	4	9.5	13	10	FKS3F021503D00_____
	3	8.5	10	7.5	FKS3D021502B00_____					
0.022 "	3	9	13	10	FKS3D021503A00_____	5	11	13	10	FKS3F022203F00_____
	3	8.5	10	7.5	FKS3D022202B00_____					
0.022 "	3	9	13	10	FKS3D022203A00_____	6	12	13	10	FKS3F023303G00_____
	4	9.5	13	10	FKS3D023303D00_____					
0.033 "	4	9.5	13	10	FKS3D024703D00_____	6	12.5	18	15	FKS3F024704C00_____
0.047 "	4	9.5	13	10	FKS3D024703D00_____	6	12.5	18	15	FKS3F024704C00_____
0.068 "	5	11	13	10	FKS3D026803F00_____	7	14	18	15	FKS3F026804D00_____
0.1 µF	6	12	13	10	FKS3D031003G00_____	8	15	18	15	FKS3F031004F00_____
0.15 "	7	14	18	15	FKS3D031504D00_____	9	16	18	15	FKS3F031504J00_____
0.22 "	8	15	18	15	FKS3D032204F00_____					

* AC voltage: $f = 50 \text{ Hz}$; $1.4 \times U_{\text{rms}} + U_{\text{DC}} \leq U_r$

** PCM = Printed circuit module = pin spacing.

Dims. in mm.

The values of the WIMA FKM 3 range according to the main catalogue 2009 are still available on request.



Part number completion:	
Tolerance:	20 % = M
	10 % = K
	5 % = J
Packing:	bulk = S
Pin length:	6-2 = SD
Taped version see page 170.	

$d = 0.5 \phi$ if $W = 3$
 $d = 0.6 \phi$ if $W \geq 4$
 $d = 0.8 \phi$ if $PCM = 15$

Rights reserved to amend design data without prior notification.

Continuation page 39

Continuation

General Data

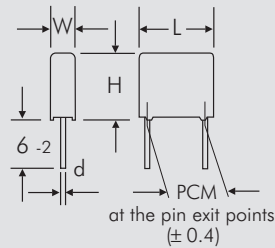
Capacitance	400 VDC/250 VAC*					630 VDC/300 VAC*				
	W	H	L	PCM**	Part number	W	H	L	PCM**	Part number
1000 pF	3	9	13	10	FKS3G011003A00_	3	9	13	10	FKS3J011003A00_
1500 "	3	9	13	10	FKS3G011503A00_	3	9	13	10	FKS3J011503A00_
2200 "	3	9	13	10	FKS3G012203A00_	3	9	13	10	FKS3J012203A00_
3300 "	3	9	13	10	FKS3G013303A00_	4	9.5	13	10	FKS3J013303D00_
4700 "	3	9	13	10	FKS3G014703A00_	4	9.5	13	10	FKS3J014703D00_
6800 "	3	9	13	10	FKS3G016803A00_	5	11	13	10	FKS3J016803F00_
0.01 μF	4	9.5	13	10	FKS3G021003D00_	6	12	13	10	FKS3J021003G00_
0.015 "	5	11	13	10	FKS3G021503F00_	6	12.5	18	15	FKS3J021504C00_
0.022 "	6	12	13	10	FKS3G022203G00_	7	14	18	15	FKS3J022204D00_
0.033 "	6	12.5	18	15	FKS3G023304C00_	8	15	18	15	FKS3J023304F00_
0.047 "	7	14	18	15	FKS3G024704D00_					
0.068 "	8	15	18	15	FKS3G026804F00_					
0.1 μF	9	16	18	15	FKS3G031004J00_					

* AC voltage: $f = 50 \text{ Hz}; 1.4 \times U_{\text{rms}} + \text{UDC} \leq U_r$

** PCM = Printed circuit module = pin spacing.

Dims. in mm.

The values of the WIMA FKM 3 range according to the main catalogue 2009 are still available on request..

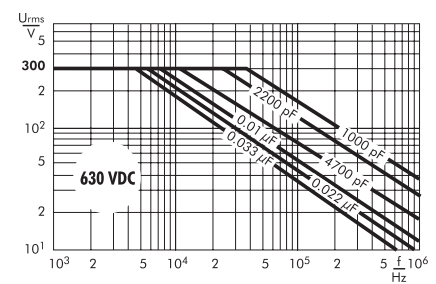
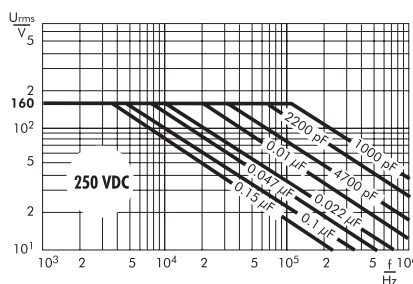
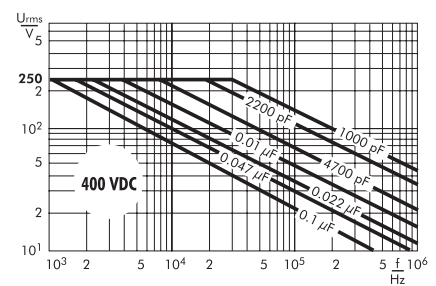
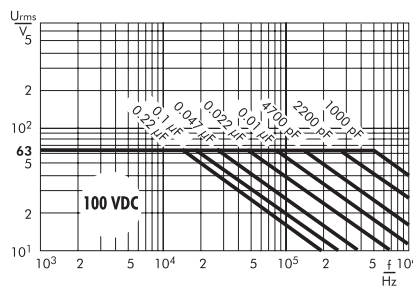


Part number completion:	
Tolerance:	20 % = M
	10 % = K
	5 % = J
Packing:	bulk = S
Pin length:	6-2 = SD
Taped version see page 170.	

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

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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

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: $\Sigma t < 5 \text{ sec}$

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 by the infaz (Institut für Auditierung und Zertifizierung) 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 2011/65/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 refrained from using such substances since years already.



WIMA Kondensatoren sind bleifrei konform RoHS 2011/65/EU

WIMA capacitors are lead free in accordance with RoHS 2011/65/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

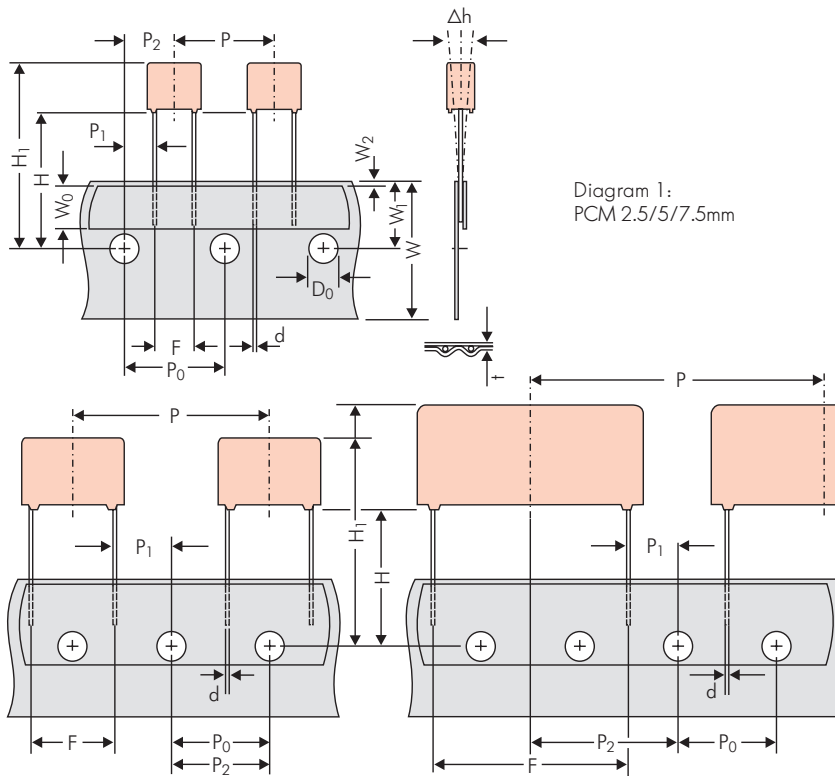


Diagram 2: PCM 10/15 mm

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 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 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 171)	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	B 52 ±2 58 ±2 or 66 ±2	REEL	φ 500 max. φ 25 ±1	B 60 ±2 68 ±2	depending on PCM and component dimensions
Unit	see details page 172.											

Dims in mm.

* Diameter of pins see General Data.

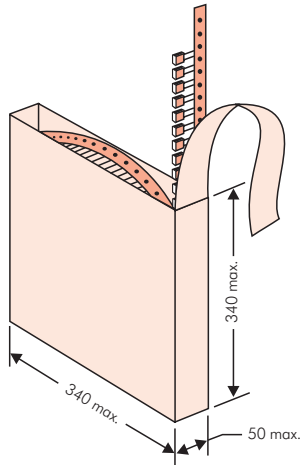
* PCM 10 and PCM 15 can be crimped to PCM 7.5.

Position of components according to PCM 7.5 (sketch 1). P₀ = 12.7 or 15.0 is possible

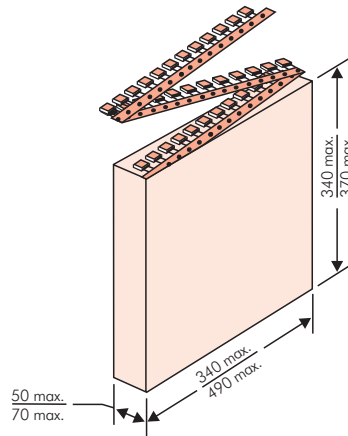
Please clarify customer-specific deviations with the manufacturer.

Types of Tape Packaging of Capacitors for Automatic Radial Insertion

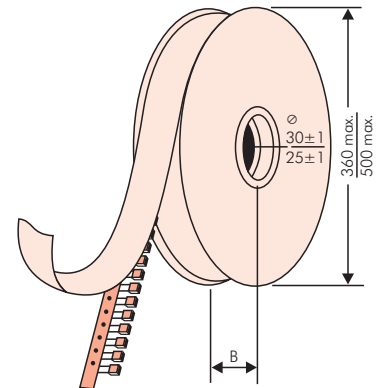
■ ROLL Packaging



■ 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

WIMA Best Capacitors Made in Germany	
Werk Aurich	
Supplier-ID:	Date Code: 20210216
Purchase Order No. (P/O): Bestellung xyz	P/O line:
Customer Part No.: KUNDENTEILENUMMER	
WIMA Part No.: MKP1F041006B00KSSD	Quantity: 459
WIMA Confirmation No.: 0001105072000100	
Customer No.: 0000100002	RoHS 2011/65/EU
Gross Weight [g]: 4557	COO: DE
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
1001988917	QTY: 459 Week 19/2021

BARCODE PDF417
BARCODE 2D Datamatrix



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 × 340	490 × 370			
					N	O	F	I	H	J	A	C	B	D	
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			3100	
	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	8.5	13.5	3A	3000			900	1600					1450	
	4	9	13	3C	3000			900	1600					1450	
	4	9.5	13	3D	3000			900	1600					1400	
	5	10	13.5	3B	2000			700	1300					1200	
	5	11	13	3F	3000			700	1300					1200	
	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	
	5	13	19	4C	1000			600	1200					1200	
	6	12.5	18	4C	2000			500	1000					1000	
	6	14	19	4D	1000			500	1000					1000	
	7	14	18	4D	1600			450	900					850	
	7	15	19	4E	1000			450	900					850	
	8	15	18	4F	1200			400	800					740	
	8	17	19	4F	500			400	800					740	
	9	14	18	4H	1200			350	700					650	
	9	16	18	4J	900			350	700					650	
10	18	19	4G	500				300	650				590		
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	20	28	5H	500				500					480	
	8.5	18.5	26.5	5F	500				480					450	
	10	22	28	5I	570*				420					380	
	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	
	12	24	28	5J	480*				350					310	
14.5	29.5	26.5	5M	286*					on request					on request	

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

■ Moulded versions.

Rights reserved to amend design data without prior notification.



Packing Quantities for Capacitors with Radial Pins in PCM 27.5 mm to 52.5 mm

PCM	Size				bulk	pcs. per packing unit											
						ROLL		REEL				AMMO					
	W	H	L	Codes		S	N	O	ø 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
								F	I	H	J	A	C	B	D		
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	–	–	–	–	–	–	–
	13	25	33	FK	405*	–	–	–	–	–	–	–	–	–	–	–	–
	15	26	31.5	6F	324*	–	–	–	–	270	–	–	–	–	–	–	–
	15	26	33	FL	324*	–	–	–	–	–	–	–	–	–	–	–	–
	17	29	31.5	6G	198*	–	–	–	–	–	–	–	–	–	–	–	–
	17	34.5	31.5	6I	198*	–	–	–	–	–	–	–	–	–	–	–	–
	20	32	33	FM	162*	–	–	–	–	–	–	–	–	–	–	–	–
	20	39.5	31.5	6J	162*	–	–	–	–	–	–	–	–	–	–	–	–
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*	–	–	–	–	–	–	–	–	–			

* for 2-inch transport pitches.

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

■ Moulded versions. Rights reserved to amend design data without prior notification.

Updated data on www.wima.com



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	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		
Type description:				Rated voltage:		Capacitance:			Size:		Tolerance:		Packing:				
SMD-PET = SMDT				50 VDC = B0		22 pF = 0022			4.8x3.3x3 Size 1812 = KA		±20% = M		AMMO H16.5 340x340 = A				
SMD-PEN = SMDN				63 VDC = C0		47 pF = 0047			4.8x3.3x4 Size 1812 = KB		±10% = K						
SMD-PPS = SMDI				100 VDC = D0		100 pF = 0100			5.7x5.1x3.5 Size 2220 = QA		±5% = J		AMMO H16.5 490x370 = B				
FKP 02 = FKPO				250 VDC = F0		150 pF = 0150			5.7x5.1x4.5 Size 2220 = QB		±2.5% = H						
MKS 02 = MKS0				400 VDC = G0		220 pF = 0220			7.2x6.1x3 Size 2824 = TA		±1% = E		AMMO H18.5 340x340 = C				
FKS 2 = FKS2				450 VDC = H0		330 pF = 0330			7.2x6.1x5 Size 2824 = TB		...						
FKP 2 = FKP2				520 VDC = H2		470 pF = 0470			10.2x7.6x5 Size 4030 = VA		REEL H16.5 360 = F		AMMO H18.5 490x370 = D				
FKS 3 = FKS3				600 VDC = I0		680 pF = 0680			12.7x10.2x6 Size 5040 = XA								
FKP 3 = FKP 3				630 VDC = J0		1000 pF = 1100			15.3x13.7x7 Size 6054 = YA		REEL H16.5 500 = H		AMMO H18.5 490x370 = D				
MKS 2 = MKS2				700 VDC = K0		1500 pF = 1150			2.5x7x4.6 PCM 2.5 = 0B		REEL H18.5 360 = I						
MKP 2 = MKP2				800 VDC = L0		2200 pF = 1220			3x7.5x4.6 PCM 2.5 = 0C		REEL H18.5 500 = J		ROLL H16.5 = N				
MKS 4 = MKS4				850 VDC = M0		3300 pF = 1330			2.5x6.5x7.2 PCM 5 = 1A		ROLL H18.5 = O						
MKP 4C = MKPC				900 VDC = N0		4700 pF = 1470			3x7.5x7.2 PCM 5 = 1B		BLISTER W12 180 = P		BLISTER W12 330 = Q				
MKP 4 = MKP4				1000 VDC = O1		6800 pF = 1680			2.5x7x10 PCM 7.5 = 2A		BLISTER W16 330 = R						
MKP 10 = MKP1				1100 VDC = P0		0.01 µF = 2100			3x8.5x10 PCM 7.5 = 2B		BLISTER W24 330 = T		Bulk/TPS Standard = S				
FKP 4 = FKP4				1200 VDC = Q0		0.022 µF = 2220			3x9x13 PCM 10 = 3A		...						
FKP 1 = FKP1				1250 VDC = R0		0.047 µF = 2470			4x9x13 PCM 10 = 3C		...						
MKP-X2 = MKX2				1500 VDC = S0		0.1 µF = 3100			5x11x18 PCM 15 = 4B								
MKP-X1 R = MKX1				1600 VDC = T0		0.22 µF = 3220			6x12.5x18 PCM 15 = 4C		BLISTER W12 330 = Q						
MKP-Y2 = MKY2				1700 VDC = TA		0.47 µF = 3470			5x14x26.5 PCM 22.5 = 5A								
MP 3-X2 = MPX2				2000 VDC = U0		1 µF = 4100			6x15x26.5 PCM 22.5 = 5B		BLISTER W16 330 = R						
MP 3-X1 = MPX1				2500 VDC = V0		2.2 µF = 4220			9x19x31.5 PCM 27.5 = 6A								
MP 3-Y2 = MPY2				3000 VDC = W0		4.7 µF = 4470			11x21x31.5 PCM 27.5 = 6B		BLISTER W24 330 = T						
MP 3R-Y2 = MPRY				4000 VDC = X0		10 µF = 5100			9x19x41.5 PCM 37.5 = 7A								
MKP 4F = MKPF				6000 VDC = Y0		22 µF = 5220			11x22x41.5 PCM 37.5 = 7B		Bulk/TPS Standard = S						
Snubber MKP = SNMP				250 VAC = 0W		47 µF = 5470			19x31x56 PCM 48.5 = 8D								
Snubber FKP = SNFP				275 VAC = 1W		100 µF = 6100			25x45x57 PCM 52.5 = 9D		...						
GTO MKP = GTOM				300 VAC = 2W		220 µF = 6220			...								
DC-LINK MKP 3 = DCP3				305 VAC = AW		1000 µF = 7100			...		Version code:		Pin length (untaped)				
DC-LINK MKP 4 = DCP4				350 VAC = BW		1500 µF = 7150											
DC-LINK MKP 4S = DCP5				440 VAC = 4W		...			Standard = 00		3.5 ±0.5 = C9						
DC-LINK MKP 5 = DCP5				500 VAC = 5W					Version A1 = 1A		6-2 = SD						
DC-LINK MKP 6 = DCP6				...					Version A1.1.1 = 1B		16 ±1 = P1						
DC-LINK HC = DCHC									Version A2 = 2A		...						
DC-LINK HY = DCHY									...		Pin length (taped)						
											none = 00						

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.