

Metallized Polyester (PET) Capacitors in PCM 2.5 mm

Special Features

- High volume/capacitance ratio and reduced base
- PCM 2.5 mm
- Self-healing
- According to RoHS 2011/65/EC

Typical Applications

For general DC-applications e.g.

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

Construction

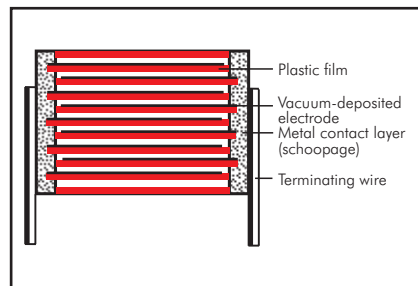
Dielectric:

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: Silver.

Epoxy resin seal: Yellow

Electrical Data

Capacitance range:

3300 pF to 1.0 μ F (E12-values on request)

Rated voltages:

50 VDC, 63 VDC, 100 VDC, 250 VDC

Capacitance tolerances:

$\pm 20\%$, $\pm 10\%$ ($\pm 5\%$ available subject to special enquiry)

Operating temperature range:

-55°C to $+100^{\circ}\text{C}$ ($+125^{\circ}\text{C}$ available subject to special enquiry)

Test specifications:

In accordance with IEC 60384-2

Climatic test category:

55/100/21 in accordance with IEC

Insulation resistance at $+20^{\circ}\text{C}$:

U_r	U_{test}	$C \leq 0.33 \mu\text{F}$	$0.33 \mu\text{F} < C \leq 1.0 \mu\text{F}$
50 VDC	10 V	$\geq 3.75 \times 10^3 \text{ M}\Omega$ (mean value: $1 \times 10^4 \text{ M}\Omega$)	$\geq 1250 \text{ sec (M}\Omega \times \mu\text{F)}$ (mean value: 3000 sec)
63 VDC	50 V	$\geq 3.75 \times 10^3 \text{ M}\Omega$ (mean value: $1 \times 10^4 \text{ M}\Omega$)	$\geq 1250 \text{ sec (M}\Omega \times \mu\text{F)}$ (mean value: 3000 sec)
$\geq 100 \text{ VDC}$	100 V	$\geq 1 \times 10^4 \text{ M}\Omega$ (mean value: $2 \times 10^4 \text{ M}\Omega$)	—

Measuring time: 1 min.

Test voltage: $1.6 U_r$, 2 sec.

Maximum pulse rise time:

Capacitance pF/ μ F	Pulse rise time V/ μ sec max. operation/test
3300 ... 6800	100 / 1000
0.01 ... 0.022	50 / 500
0.033 ... 0.068	30 / 300
0.1 ... 0.33	20 / 200
0.47 ... 1.0	15 / 150

for pulses equal to the rated voltage

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

at f	$C \leq 0.1 \mu\text{F}$	$0.1 \mu\text{F} < C \leq 1.0 \mu\text{F}$
1 kHz	$\leq 8 \times 10^{-3}$	$\leq 8 \times 10^{-3}$
10 kHz	$\leq 15 \times 10^{-3}$	$\leq 15 \times 10^{-3}$
100 kHz	$\leq 30 \times 10^{-3}$	—

Voltage derating:

A voltage derating factor of 1.25 % per K must be applied from $+85^{\circ}\text{C}$ for DC voltages and from $+75^{\circ}\text{C}$ for AC voltages.

Reliability:

Operational life > 300 000 hours

Failure rate < 2 fit ($0.5 \times U_r$ 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/sec^2 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

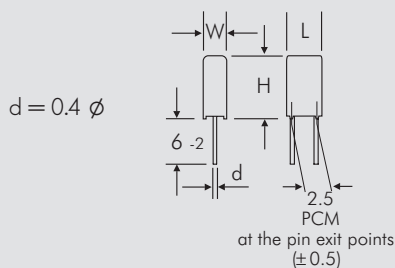
Capacitance	50 VDC/30 VAC*					63 VDC/40 VAC*				
	W	H	L	PCM**	Part number	W	H	L	PCM**	Part number
0.01 μF						2.5	7	4.6	2.5	MKS0C021000B00_____
0.015 "						2.5	7	4.6	2.5	MKS0C021500B00_____
0.022 "						2.5	7	4.6	2.5	MKS0C022200B00_____
0.033 "						2.5	7	4.6	2.5	MKS0C023300B00_____
0.047 "						2.5	7	4.6	2.5	MKS0C024700B00_____
0.068 "						3	7.5	4.6	2.5	MKS0C026800C00_____
0.1 μF						3	7.5	4.6	2.5	MKS0C031000C00_____
0.15 "						3	7.5	4.6	2.5	MKS0C031500C00_____
0.22 "						3	7.5	4.6	2.5	MKS0C032200C00_____
0.33 "						3.8	8.5	4.6	2.5	MKS0C033300D00_____
0.47 "						4.6	9	4.6	2.5	MKS0C034700E00_____
0.68 "						5.5	10	4.6	2.5	MKS0C036800F00_____
1.0 μF	5.5	10	4.6	2.5	MKS0B041000F00_____					

Capacitance	100 VDC/63 VAC*					250 VDC/160 VAC*				
	W	H	L	PCM**	Part number	W	H	L	PCM**	Part number
3300 pF						2.5	7	4.6	2.5	MKS0F013300B00_____
4700 "						2.5	7	4.6	2.5	MKS0F014700B00_____
6800 "						2.5	7	4.6	2.5	MKS0F016800B00_____
0.01 μF	2.5	7	4.6	2.5	MKS0D021000B00_____	2.5	7	4.6	2.5	MKS0F021000B00_____
0.015 "	2.5	7	4.6	2.5	MKS0D021500B00_____	2.5	7	4.6	2.5	MKS0F021500B00_____
0.022 "	2.5	7	4.6	2.5	MKS0D022200B00_____	2.5	7	4.6	2.5	MKS0F022200B00_____
0.033 "	2.5	7	4.6	2.5	MKS0D023300B00_____	3	7.5	4.6	2.5	MKS0F023300C00_____
0.047 "	2.5	7	4.6	2.5	MKS0D024700B00_____	3.8	8.5	4.6	2.5	MKS0F024700D00_____
0.068 "	3	7.5	4.6	2.5	MKS0D026800C00_____	4.6	9	4.6	2.5	MKS0F026800E00_____
0.1 μF	3	7.5	4.6	2.5	MKS0D031000C00_____	5.5	10	4.6	2.5	MKS0F031000F00_____
0.15 "	3.8	8.5	4.6	2.5	MKS0D031500D00_____					
0.22 "	4.6	9	4.6	2.5	MKS0D032200E00_____					
0.33 "	5.5	10	4.6	2.5	MKS0D033300F00_____					

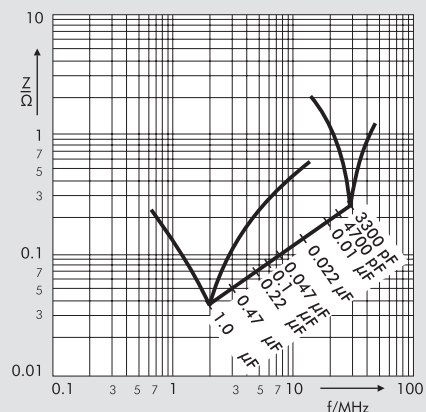
* AC voltage: $f = 50 \text{ Hz}$; $1.4 \times U_{\text{rms}} + U_{\text{DC}} \leq U_r$

** PCM = Printed circuit module = pin spacing

Dims. in mm.



Part number completion:	
Tolerance:	20 % = M 10 % = K 5 % = J
Packing:	bulk = S
Pin length:	6-2 = SD
Taped version see page 148.	



Impedance change with frequency
(general guide).

Rights reserved to amend design data without prior notification.

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 $t < 5\text{ min.}$ has been proven to be best.

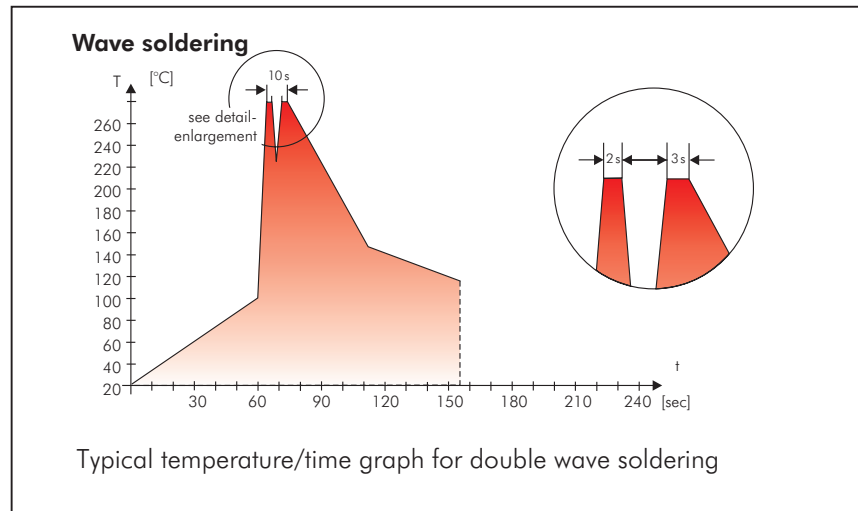
Single wave soldering

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

Double wave soldering

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

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



WIMA Quality and Environmental Philosophy

ISO 9001:2008 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 | – PBB/PBDE |
| – PCB | – Arsenic |
| – CFC | – Cadmium |
| – 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:

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

RoHS Compliance

According to the RoHS Directive 2011/65/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 2011/65/EC
WIMA capacitors are lead free
in accordance with RoHS 2011/65/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

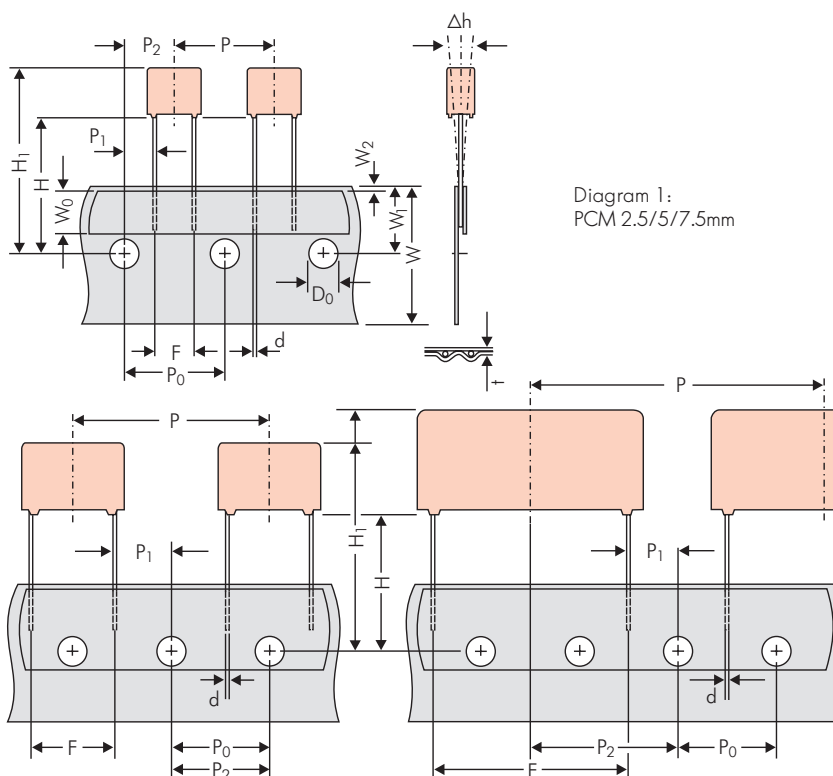


Diagram 2: PCM 10/15 mm

Diagram 3: PCM 22.5 and 27.5*mm

*PCM 27.5 taping possible with two feed holes between components

Dimensions for Radial 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	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	16.5 ±0.3	16.5 ±0.5	16.5 ±0.5	16.5 ±0.5	16.5 ±0.5	16.5 ±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	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	0.7 ±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 149)		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 B 58 ±2 or 66 ±2	REEL ϕ 500 max. ϕ 25 ±1	54 ±2 B 60 ±2 68 ±2
see details page 150.								

Dims in mm.

* Diameter of pins see General Data.

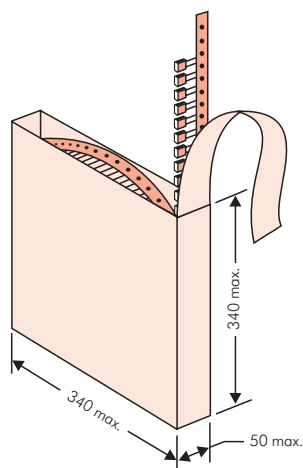
* PCM 10 and PCM 15 can be crimped to PCM 7.5.

Position of components according to PCM 7.5 (sketch 11). P₀ = 12.7 or 15.0 is possible

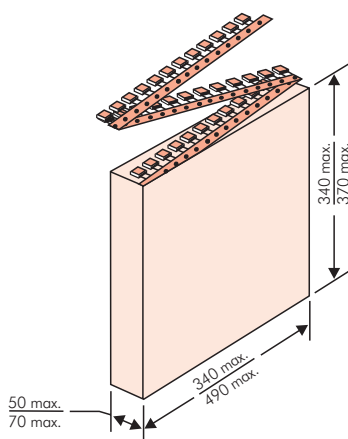
Please clarify customer-specific deviations with the manufacturer.

Types of Tape Packaging of Capacitors for Automatic Radial Insertion

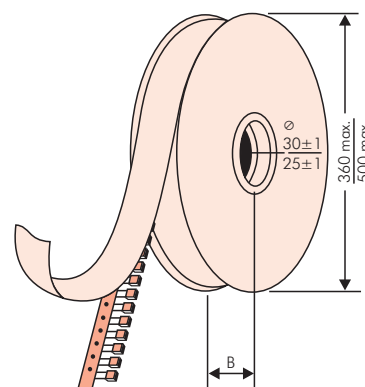
■ ROLL Packaging



■ AMMO Packaging



■ REEL Packaging



BAR CODE (Labelling)

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

Scanner decoding of

- WIMA supplier number
- Customer's P/O number
- Customer's part number
- WIMA confirmation number
- WIMA part number
- Lot number
- Date code
- Quantity

In addition part description of

- article
- capacitance value
- rated voltage
- dimensions
- capacitance tolerance
- packing

as well as gross weight and customer's name are indicated in plain text.

WIMA Best Capacitors Made in Germany		Werk Unna	
Supplier-ID: 123456789	RoHS 2011/65/EC	Date Code: 08.10.10	
Purchase Order No. (P/O): Bestellung xyz		Quantity: 5.000	
Customer Part No.: KUNDETEILENUMMER		Customer No.: 0000100002	
WIMA Confirmation No.: 0001004063000100		Gross Weight [g]: 1870	
WIMA Part No.: MKS2C034701C00K89D			
Handling Unit:	MKS 2	QTY: 5.000	COO: DE
1000067326	MKS 2 0.47 µF 63 VDC 3.5x8.5x7.2 RMS		
	Standard 10% Loss - Standard Drähte 6-2		
	Vorlage Debitor Inland	Week 03/2011	

BARCODE „Code 39“



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			
	H16.5	H18.5	ø 360	ø 500		340 × 340		490 × 370							
	W	H	L	Codes	S	N	O	F	I	H	J	A	C	B	D
2.5 mm	2.5	7	4.6	0B	5000			2500		–		2800		–	
	3	7.5	4.6	0C	5000	2200		2300		–		2300		–	
	3.8	8.5	4.6	0D	5000	2000		1800		–		1800		–	
	4.6	9	4.6	0E	5000	1500		1500		–		1500		–	
	5.5	10	4.6	0F	5000	1200		1200		–		1200		–	
5 mm	2.5	6.5	7.2	1A	5000	900		2500		–		2800		–	
	3	7.5	7.2	1B	5000	2200		2300		–		2300		–	
	3.5	8.5	7.2	1C	5000	2000		2000		–		2000		–	
	4.5	6	7.2	1D	6000	1600		1500		–		1500		–	
	4.5	9.5	7.2	1E	4000	1300		1500		–		1500		–	
	5	10	7.2	1F	3500	1300		1400		–		1400		–	
	5.5	7	7.2	1G	4000	1100		1200		–		1200		–	
	5.5	11.5	7.2	1H	2500	1000		1200		–		1200		–	
	6.5	8	7.2	1I	2500	1000		1000		–		1000		–	
	7.2	8.5	7.2	1J	2500	800		1000		–		1000		–	
	7.2	13	7.2	1K	2000	700		950		–		1000		–	
	8.5	10	7.2	1L	2000	700		800		–		800		–	
	8.5	14	7.2	1M	1500	800		800		–		800		–	
	11	16	7.2	1N	1000	600		600		–		400		–	
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		2800	
	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	FA	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	FB	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	
15 mm	8	12	13	3I	2000	–		400		800		–		740	
	5	11	18	4B	2400	–		600		1200		–		1150	
	5	13	19	FC	1000	–		600		1200		–		1200	
	6	12.5	18	4C	2000	–		500		1000		–		1000	
	6	14	19	FD	1000	–		500		1000		–		1000	
	7	14	18	4D	1600	–		450		900		–		850	
	7	15	19	FE	1000	–		450		900		–		850	
	8	15	18	4F	1200	–		400		800		–		740	
	8	17	19	FF	500	–		400		800		–		740	
	9	14	18	4H	1200	–		350		700		–		650	
	9	16	18	4J	900	–		350		700		–		650	
22.5 mm	10	18	19	FG	500	–		300		650		–		590	
	11	14	18	4M	1000	–		300		600		–		540	
	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	FH	500	–		–		500		–		480	
	8.5	18.5	26.5	5F	500	–		–		480		–		450	
	10	22	28	FI	540*	–		–		420		–		380	
	10.5	19	26.5	5G	680*	–		–		400		–		360	
	10.5	20.5	26.5	5H	680*	–		–		400		–		360	
11	21	26.5	5I	680*	–		–		380		–		350		
12	24	28	FJ	450*	–		–		350		–		310		

* 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	ROLL		pcs. per packing unit				AMMO			
								REEL							
	W	H	L	Codes		H16.5	H18.5	ø 360	ø 500	340 × 340	490 × 370	H16.5	H18.5	H16.5	H18.5
					S	N	O	F	I	H	J	A	C	B	D
27.5 mm	9	19	31.5	6A	640*	–	–	–	–	460/340*	–	–	–	420	–
	11	21	31.5	6B	544*	–	–	–	–	380/280*	–	–	–	350	–
	13	24	31.5	6D	448*	–	–	–	–	300	–	–	–	290	–
	13	25	33	FK	336*	–	–	–	–	–	–	–	–	–	–
	15	26	31.5	6F	384*	–	–	–	–	270	–	–	–	250	–
	15	26	33	FL	288*	–	–	–	–	–	–	–	–	–	–
	17	29	31.5	6G	176*	–	–	–	–	–	–	–	–	–	–
	17	34.5	31.5	6I	176*	–	–	–	–	–	–	–	–	–	–
	19	30	31.5	6L	50*	–	–	–	–	–	–	–	–	–	–
	20	32	33	FM	216*	–	–	–	–	–	–	–	–	–	–
	20	39.5	31.5	6J	144*	–	–	–	–	–	–	–	–	–	–
37.5 mm	9	19	41.5	7A	480*	–	–	–	–	–	–	–	–	–	–
	11	22	41.5	7B	408*	–	–	–	–	–	–	–	–	–	–
	13	24	41.5	7C	252*	–	–	–	–	–	–	–	–	–	–
	15	26	41.5	7D	144*	–	–	–	–	–	–	–	–	–	–
	17	29	41.5	7E	132*	–	–	–	–	–	–	–	–	–	–
	19	32	41.5	7F	108*	–	–	–	–	–	–	–	–	–	–
	20	39.5	41.5	7G	108*	–	–	–	–	–	–	–	–	–	–
	24	45.5	41.5	7H	84*	–	–	–	–	–	–	–	–	–	–
	31	46	41.5	7I	72*	–	–	–	–	–	–	–	–	–	–
	35	50	41.5	7J	35*	–	–	–	–	–	–	–	–	–	–
	40	55	41.5	7K	28*	–	–	–	–	–	–	–	–	–	–
48.5 mm	19	31	56	8D	50*	–	–	–	–	–	–	–	–	–	–
	23	34	56	8E	72*	–	–	–	–	–	–	–	–	–	–
	27	37.5	56	8H	60*	–	–	–	–	–	–	–	–	–	–
	33	48	56	8J	48*	–	–	–	–	–	–	–	–	–	–
	37	54	56	8L	25*	–	–	–	–	–	–	–	–	–	–
52.5 mm	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.

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 μ F				2.5x6.5x7.2		-		20%	bulk	6 -2	

Type description:		Rated voltage:		Capacitance:		Size:		Tolerance:	
SMD-PET	= SMDT	2.5 VDC	= A1	22 pF	= 0022	4.8x3.3x3 Size 1812	= KA	20%	= M
SMD-PPS	= SMDI	4 VDC	= A2	47 pF	= 0047	4.8x3.3x4 Size 1812	= KB	10%	= K
FKP 02	= FKPO	14 VDC	= A3	100 pF	= 0100	5.7x5.1x3.5 Size 2220	= QA	5%	= J
MKS 02	= MKSO	28 VDC	= A4	150 pF	= 0150	5.7x5.1x4.5 Size 2220	= QB	2.5%	= H
FKS 2	= FKS2	40 VDC	= A5	220 pF	= 0220	7.2x6.1x3 Size 2824	= TA	1%	= E
FKP 2	= FKP2	5 VDC	= A6	330 pF	= 0330	7.2x6.1x5 Size 2824	= TB	...	
MKS 2	= MKS2	50 VDC	= B0	470 pF	= 0470	10.2x7.6x5 Size 4030	= VA		
MKP 2	= MKP2	63 VDC	= C0	680 pF	= 0680	12.7x10.2x6 Size 5040	= XA		
FKS 3	= FKS3	100 VDC	= D0	1000 pF	= 1100	15.3x13.7x7 Size 6054	= YA		
FKP 3	= FKP3	160 VDC	= E0	1500 pF	= 1150	2.5x7x4.6 PCM 2.5	= 0B		
MKS 4	= MKS4	250 VDC	= F0	2200 pF	= 1220	3x7.5x4.6 PCM 2.5	= 0C		
MKP 4	= MKP4	400 VDC	= G0	3300 pF	= 1330	2.5x6.5x7.2 PCM 5	= 1A		
MKP 10	= MKP1	450 VDC	= H0	4700 pF	= 1470	3x7.5x7.2 PCM 5	= 1B		
FKP 4	= FKP4	600 VDC	= I0	6800 pF	= 1680	2.5x7x10 PCM 7.5	= 2A		
FKP 1	= FKP1	630 VDC	= J0	0.01 μF	= 2100	3x8.5x10 PCM 7.5	= 2B		
MKP-X2	= MKX2	700 VDC	= K0	0.022 μF	= 2220	3x9x13 PCM 10	= 3A		
MKP-X2 R	= MKXR	800 VDC	= L0	0.047 μF	= 2470	4x9x13 PCM 10	= 3C		
MKP-Y2	= MKY2	850 VDC	= M0	0.1 μF	= 3100	5x11x18 PCM 15	= 4B		
MP 3-X2	= MPX2	900 VDC	= N0	0.22 μF	= 3220	6x12.5x18 PCM 15	= 4C		
MP 3-X1	= MPX1	1000 VDC	= O1	0.47 μF	= 3470	5x14x26.5 PCM 22.5	= 5A		
MP 3-Y2	= MPY2	1100 VDC	= P0	1 μF	= 4100	6x15x26.5 PCM 22.5	= 5B		
MP 3R-Y2	= MPRY	1200 VDC	= Q0	2.2 μF	= 4220	9x19x31.5 PCM 27.5	= 6A		
Snubber MKP	= SNMP	1250 VDC	= R0	4.7 μF	= 4470	11x21x31.5 PCM 27.5	= 6B		
Snubber FKP	= SNFP	1500 VDC	= S0	10 μF	= 5100	9x19x41.5 PCM 37.5	= 7A		
GTO MKP	= GTOM	1600 VDC	= T0	22 μF	= 5220	11x22x41.5 PCM 37.5	= 7B		
DC-LINK MKP 3	= DCP3	2000 VDC	= U0	47 μF	= 5470	94x49x182 DCH_	= H0		
DC-LINK MKP 4	= DCP4	2500 VDC	= V0	100 μF	= 6100	94x77x182 DCH_	= H1		
DC-LINK MKP 4S	= DCPS	3000 VDC	= W0	220 μF	= 6220	...			
DC-LINK MKP 5	= DCP5	4000 VDC	= X0	1 F	= A010				
DC-LINK MKP 6	= DCP6	6000 VDC	= Y0	2.5 F	= A025				
DC-LINK HC	= DCH_	250 VAC	= 0W	50 F	= A500				
DC-LINK HY	= DCHY	275 VAC	= 1W	100 F	= B100				
SuperCap C	= SCSC	300 VAC	= 2W	110 F	= B110				
SuperCap MC	= MC_	400 VAC	= 3W	600 F	= B600				
SuperCap C60	= SCSC	440 VAC	= 4W	1200 F	= C120				
SuperCap R	= SCSR	500 VAC	= 5W	...					
SuperCap MR	= MRPP	...							

Packing:	
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
...	

Version code:	
Standard	= 00
Version A1	= 1A
Version A1.1.1	= 1B
Version A2	= 2A
...	

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.