

WIMA MKP-X2



Metallized Polypropylene (PP) RFI-Capacitors Class X2 PCM 7.5 mm to 27.5 mm

Special Features

- Reliable self-healing
- High degree of interference suppression due to good attenuation and low ESR
- According to RoHS 2011/65/EU

Typical Applications

Class X2 RFI applications to meet EMC regulations

- Capacitors connected to the mains between phase and neutral or phase conductors
- Installation category II in accordance with IEC 60664, pulse peak voltage ≤ 2.5 kV

Construction

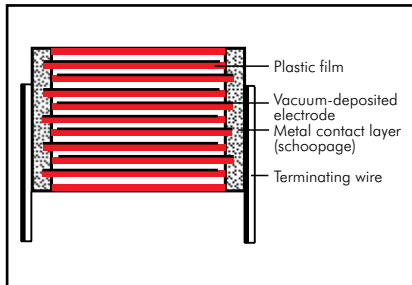
Dielectric:

Polypropylene (PP) film

Capacitor electrodes:

Vacuum-deposited

Internal construction:



Encapsulation:

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

Terminations:

Tinned wire.

Marking:

Colour: Red. Marking: Black.

Electrical Data

Capacitance range: 1000 pF to 2.2 μ F

Rated voltage: 275 VAC, 305 VAC

Continuous DC voltage* (general guide): ≤ 560 V

Capacitance tolerances: $\pm 20\%$, $\pm 10\%$

Operating temperature range:

-55°C to $+105^\circ\text{C}$

Climatic test category:

55/105/56/B in accordance with IEC

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

$C \leq 0.33 \mu\text{F}$: $\geq 15 \times 10^3 \text{ M}\Omega$

$C > 0.33 \mu\text{F}$: $\geq 5000 \text{ sec (M}\Omega \times \mu\text{F)}$

Measuring voltage: 100 V/1 min.

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

at f	$C \leq 0.1 \mu\text{F}$	$0.1 \mu\text{F} < C \leq 1.0 \mu\text{F}$	$C > 1.0 \mu\text{F}$
1 kHz	$\leq 10 \times 10^{-4}$	$\leq 20 \times 10^{-4}$	$\leq 30 \times 10^{-4}$
10 kHz	$\leq 20 \times 10^{-4}$	$\leq 60 \times 10^{-4}$	-
100 kHz	$\leq 90 \times 10^{-4}$	-	-

Test specifications:

In accordance with IEC 60384-14

Maximum pulse rise time:

100 V/ μsec for pulses equal to a voltage amplitude with $\sqrt{2} \times 275 \text{ VAC} = 390 \text{ V}$ according to IEC 60384-14

Test voltage:

$C \leq 1.0 \mu\text{F}$: 2260 VDC, 2 sec.

$C > 1.0 \mu\text{F}$: 1800 VDC, 2 sec.

Reliability:

Operational life $> 300\,000$ hours

Failure rate < 2 fit ($0.5 \times U_r$ and 40°C)

Approvals:

Country	Authority	Specification	Symbol	Approval-No.
Germany	VDE	IEC 60384-14/3		40003472
USA/Canada	UL	UL 60384-14 CAN/CSA-E60384-14		E 134915
USA/Canada	UL	UL 1283 (305 V~) C 22.2 No. 8 (305 V~)		E 100438

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: 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.

* If safety-approved EMI suppression capacitors are operated with a DC voltage being above the specified AC voltage rating the given approvals are no longer valid (IEC 60384-14).

Furthermore the permissible pulse rise time $du/dt (I_{\text{max}})$ will be subject to a reduction according to

$$F_{\text{max}} = F_r \times \sqrt{2} \times \text{UAC} / \text{UDC}$$

if the DC operating voltage UDC is higher than $\sqrt{2} \times \text{UAC}$

Continuation

General Data

Capacitance	275 VAC*					305 VAC*				
	W	H	L	PCM**	Part number	W	H	L	PCM**	Part number
1000 pF	4	9	10	7.5	MKX21W11002C00_____					
1500 "	4	9	10	7.5	MKX21W11502C00_____					
2200 "	4	9	10	7.5	MKX21W12202C00_____					
3300 "	4	9	10	7.5	MKX21W13302C00_____					
4700 "	4	9	10	7.5	MKX21W14702C00_____					
6800 "	4	9	10	7.5	MKX21W16802C00_____					
0.01 μF	4	9	10	7.5	MKX21W21002C00_____					
	5	11	13	10	MKX21W21003F00_____					
0.015 "	4	9	10	7.5	MKX21W21502C00_____	5	11	13	10	MKX2AW21503F00_____
	5	11	13	10	MKX21W21503F00_____					
0.022 "	4	9	10	7.5	MKX21W22202C00_____	5	11	13	10	MKX2AW22203F00_____
	5	11	13	10	MKX21W22203F00_____					
0.033 "	5	10.5	10.3	7.5	MKX21W23302E00_____	5	10.5	10.3	7.5	MKX2AW23302E00_____
	5	11	13	10	MKX21W23303F00_____	5	11	13	10	MKX2AW23303F00_____
0.047 "	5.7	12.5	10.3	7.5	MKX21W24702F00_____	5.7	12.5	10.3	7.5	MKX2AW24702F00_____
	6	12.5	13	10	MKX21W24703H00_____	6	12.5	13	10	MKX2AW24703H00_____
0.068 "	6	12.5	13	10	MKX21W26803H00_____	6	12.5	13	10	MKX2AW26803H00_____
0.1 μF	8	12	13	10	MKX21W31003I00_____	8	12	13	10	MKX2AW31003I00_____
	5	11	18	15	MKX21W31004B00_____	5	11	18	15	MKX2AW31004B00_____
	6	12.5	18	15	MKX21W31004C00_____	6	12.5	18	15	MKX2AW31004C00_____
0.15 "	6	12.5	18	15	MKX21W31504C00_____	6	12.5	18	15	MKX2AW31504C00_____
	7	14	18	15	MKX21W31504D00_____	7	14	18	15	MKX2AW31504D00_____
0.22 "	9	14	18	15	MKX21W32204H00_____	8	15	18	15	MKX2AW32204F00_____
	8	15	18	15	MKX21W32204F00_____					
0.33 "	11	14	18	15	MKX21W33304M00_____	9	16	18	15	MKX2AW33304J00_____
	9	16	18	15	MKX21W33304J00_____					
0.47 "	8.5	18.5	26.5	22.5	MKX21W34705F00_____	8.5	18.5	26.5	22.5	MKX2AW34705F00_____
	10.5	19	26.5	22.5	MKX21W34705G00_____	10.5	19	26.5	22.5	MKX2AW34705G00_____
0.68 "	10.5	19	26.5	22.5	MKX21W36805G00_____	10.5	19	26.5	22.5	MKX2AW36805G00_____
	11	21	26.5	22.5	MKX21W36805I00_____	11	21	26.5	22.5	MKX2AW36805I00_____
1.0 μF	11	21	26.5	22.5	MKX21W41005I00_____	11	21	26.5	22.5	MKX2AW41005I00_____
	13	24	31.5	27.5	MKX21W41006D00_____	13	24	31.5	27.5	MKX2AW41006D00_____
1.5 "	15	26	31.5	27.5	MKX21W41506F00_____	15	26	31.5	27.5	MKX2AW41506F00_____
2.2 "	17	29	31.5	27.5	MKX21W42206G00_____					

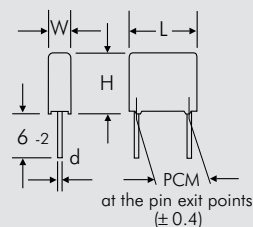
* f = 50/60 Hz

** PCM = Printed circuit module = pin spacing

■ Additional to ENEC certified for 305 VAC in accordance with UL 1283.

Dims. in mm.

Rights reserved to amend design data without prior notification.



d = 0.6 φ if PCM < 15
d = 0.8 φ if PCM ≥ 15

Part number completion:

Tolerance: 20 % = M
10 % = K

Packing: bulk = S
Pin length: 6-2 = SD

Taped version see page 128.

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: $T_{max.} \leq 110^{\circ}C$

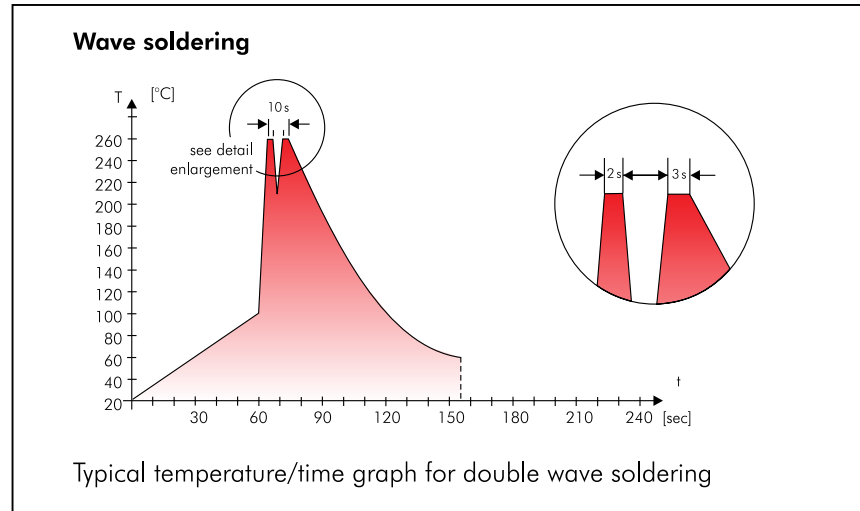
Single wave soldering

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 9001:2008 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
- 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:

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

RoHS Compliance

According to the RoHS Directive 2011/65/EU 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

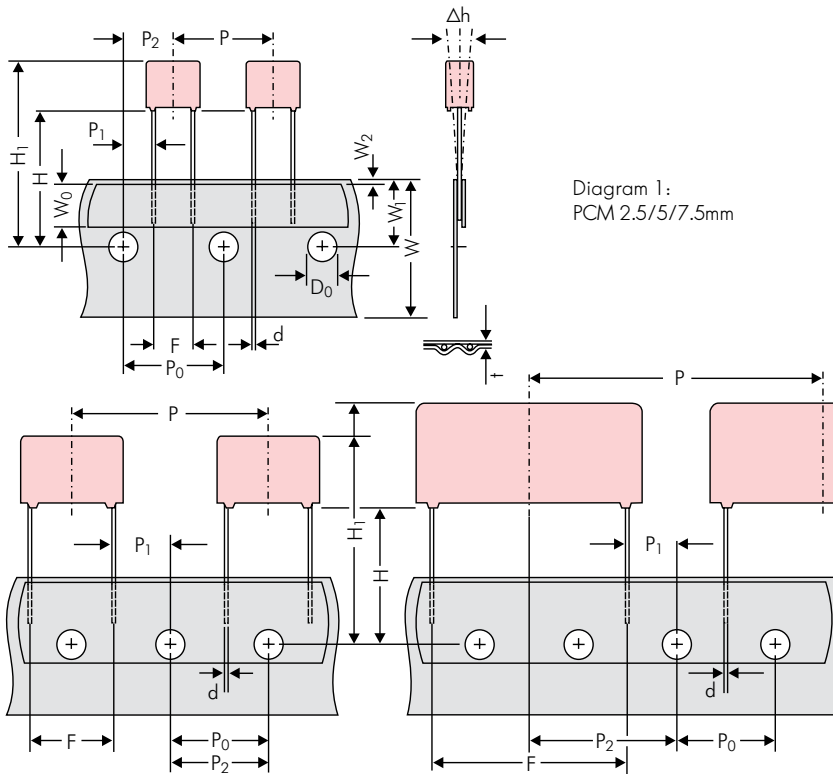


Diagram 2: PCM 10/15 mm

Diagram 3: PCM 22.5 and 27.5*mm

*PCM 27.5 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 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				
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 129)	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 130.											

Dims in mm.

* Diameter of pins see General Data.

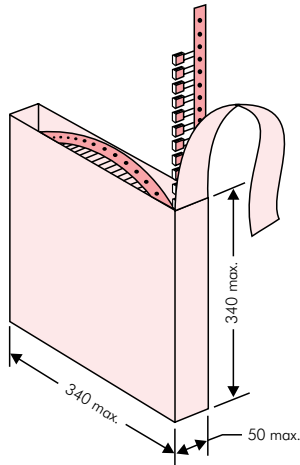
* PCM 10 and PCM 15 can be crimped to PCM 7.5.

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

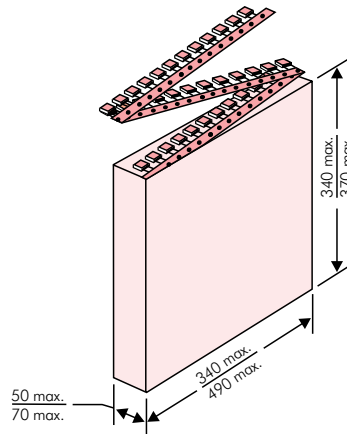
Please clarify customer-specific deviations with the manufacturer.

Types of Tape Packaging of Capacitors for Automatic Radial Insertion

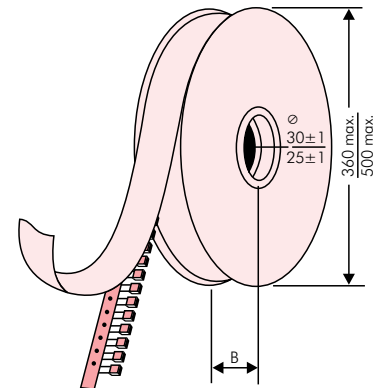
■ ROLL Packaging



■ AMMO Packaging



■ REEL Packaging



BAR CODE (Labelling)

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

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	
		Gross Weight [g]: 1870	
WIMA Confirmation No.: 0001004053000100	WIMA Part No.: MKS2C034701C00K88D		
Handling Unit: MKS 2	QTY: 5.000	COO: DE	
	MKS 2 0.47 µF 63 VDC 3.5x8.5x7.2 RM5		
1000067326	Standard 10% Loss - Standard	Dichte 6-2	Week 03/2011
	Vorlage Debitur Inland		

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		
	W	H	L	Codes		S	H16.5 N	H18.5 O	ø 360 H16.5 F	ø 500 H18.5 I	H16.5 H	H18.5 J	340 × 340 H16.5 A	H18.5 C
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				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
8	12	13	3I	2000			400		800				740	
15 mm	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
	10	18	19	FG	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	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	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	640*	-	-	-	-	460/340*		-	-	420			
	11	21	31.5	6B	544*	-	-	-	-	380/280*		-	-	350			
	13	24	31.5	6D	448*	-	-	-	-	300		-	-	290			
	13	25	33	6K	336*	-	-	-	-	-		-	-	-			
	15	26	31.5	6F	384*	-	-	-	-	270		-	-	250			
	15	26	33	6L	288*	-	-	-	-	-		-	-	-			
	17	29	31.5	6G	176*	-	-	-	-	-		-	-	-			
	17	34.5	31.5	6I	176*	-	-	-	-	-		-	-	-			
	20	32	33	6M	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:			Packing:			
SMD-PET = SMDT				50 VDC = B0		22 pF = 0022			4.8x3.3x3 Size 1812 = KA		\pm 20% = M			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 ...			
SMD-PPS = SMDI				63 VDC = C0		47 pF = 0047			4.8x3.3x4 Size 1812 = KB		\pm 10% = K						
FKP 02 = FKP0				100 VDC = D0		100 pF = 0100			5.7x5.1x3.5 Size 2220 = QA		\pm 5% = J						
MKS 02 = MKS0				250 VDC = F0		150 pF = 0150			5.7x5.1x4.5 Size 2220 = QB		\pm 2.5% = H						
FKS 2 = FKS2				400 VDC = G0		220 pF = 0220			7.2x6.1x3 Size 2824 = TA		\pm 1% = E						
FKP 2 = FKP2				450 VDC = H0		330 pF = 0330			7.2x6.1x5 Size 2824 = TB		...						
MKS 2 = MKS2				600 VDC = I0		470 pF = 0470			10.2x7.6x5 Size 4030 = VA		Tolerance: \pm 20% = M \pm 10% = K \pm 5% = J \pm 2.5% = H \pm 1% = E ...						
MKS 2 = MKP2				630 VDC = J0		680 pF = 0680			12.7x10.2x6 Size 5040 = XA								
FKS 3 = FKS3				700 VDC = K0		1000 pF = 1100			15.3x13.7x7 Size 6054 = YA								
FKP 3 = FKP3				800 VDC = L0		1500 pF = 1150			2.5x7x4.6 PCM2.5 = 0B								
MKS 4 = MKS4				850 VDC = M0		2200 pF = 1220			3x7.5x4.6 PCM2.5 = 0C								
MKP 4 = MKP4				900 VDC = N0		3300 pF = 1330			2.5x6.5x7.2 PCM5 = 1A								
MKP 10 = MKP1				1000 VDC = O1		4700 pF = 1470			3x7.5x7.2 PCM5 = 1B								
FKP 4 = FKP4				1100 VDC = P0		6800 pF = 1680			2.5x7x10 PCM7.5 = 2A								
FKP 1 = FKP1				1200 VDC = Q0		0.01 μ F = 2100			3x8.5x10 PCM7.5 = 2B								
MKP-X2 = MKX2				1250 VDC = R0		0.022 μ F = 2220			3x9x13 PCM10 = 3A								
MKP-X2 R = MKXR				1500 VDC = S0		0.047 μ F = 2470			4x9x13 PCM10 = 3C								
MKP-Y2 = MKY2				1600 VDC = T0		0.1 μ F = 3100			5x11x18 PCM15 = 4B								
MP 3-X2 = MPX2				2000 VDC = U0		0.22 μ F = 3220			6x12.5x18 PCM15 = 4C								
MP 3-X1 = MPX1				2500 VDC = V0		0.47 μ F = 3470			5x14x26.5 PCM22.5 = 5A								
MP 3-Y2 = MPY2				3000 VDC = W0		1 μ F = 4100			6x15x26.5 PCM22.5 = 5B								
MP 3R-Y2 = MPRY				4000 VDC = X0		2.2 μ F = 4220			9x19x31.5 PCM27.5 = 6A								
Snubber MKP = SNMP				6000 VDC = Y0		4.7 μ F = 4470			11x21x31.5 PCM27.5 = 6B								
Snubber FKP = SNFP				250 VAC = 0W		10 μ F = 5100			9x19x41.5 PCM37.5 = 7A								
GTO MKP = GTOM				275 VAC = 1W		22 μ F = 5220			11x22x41.5 PCM37.5 = 7B								
DC-LINK MKP 3 = DCP3				300 VAC = 2W		47 μ F = 5470			94x49x182 DCH_ = H0								
DC-LINK MKP 4 = DCP4				400 VAC = 3W		100 μ F = 6100			94x77x182 DCH_ = H1								
DC-LINK MKP 4S = DCPS				440 VAC = 4W		220 μ F = 6220			...								
DC-LINK MKP 5 = DCP5				500 VAC = 5W		1000 μ F = 7100			...								
DC-LINK MKP 6 = DCP6											
DC-LINK HC = DCH_											
DC-LINK HY = DCHY											
									Version code:		Pin length (untaped)						
									Standard = 00		3.5 \pm 0.5 = C9						
									Version A1 = 1A		6-2 = SD						
									Version A1.1.1 = 1B		16 \pm 1 = P1						
									Version A2 = 2A		...						
														

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.