

Metallized Polyester (PET) Capacitors in PCM 5 mm. Capacitances from 0.01 μF to 4.7 μF . Rated Voltages from 63 VDC to 630 VDC.

Special Features

- High volume/capacitance ratio
- Self-healing
- AEC-Q200 qualified
- According to RoHS 2015/863/EU

Typical Applications

For general DC-applications e.g.

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

Construction

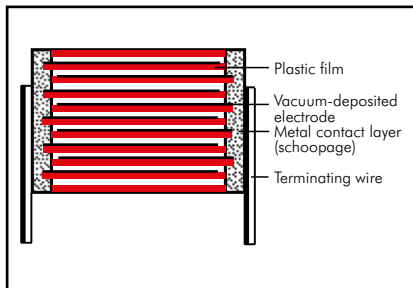
Dielectric:

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: Black.

Electrical Data

Capacitance range:

0.01 μF to 4.7 μF (E12-values on request)

Rated voltages: 63VDC, 100VDC, 250VDC, 400VDC, 630VDC

Capacitance tolerances:

$\pm 20\%$, $\pm 10\%$, $\pm 5\%$

Operating temperature range:

-55°C to $+125^\circ\text{C}$

Climatic test category:

55/100/21 in accordance with IEC

Test specifications:

In accordance with IEC 60384-2

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

U_r	U_{test}	$C \leq 0.33 \mu\text{F}$	$0.33 \mu\text{F} < C \leq 4.7 \mu\text{F}$
63VDC	50V	$\geq 1 \times 10^4 \text{ M}\Omega$	$\geq 1250 \text{ sec (M}\Omega \times \mu\text{F)}$
$\geq 100\text{VDC}$	100V	$\geq 1.5 \times 10^4 \text{ M}\Omega$	$\geq 3000 \text{ sec (M}\Omega \times \mu\text{F)}$

Measuring time: 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	$\leq 8 \times 10^{-3}$	$\leq 8 \times 10^{-3}$	$\leq 10 \times 10^{-3}$
10 kHz	$\leq 15 \times 10^{-3}$	$\leq 15 \times 10^{-3}$	–
100 kHz	$\leq 30 \times 10^{-3}$	–	–

Maximum pulse rise time:

Capacitance μF	max. pulse rise time V/ μsec				
	63 VDC	100 VDC	250 VDC	400 VDC	630 VDC
0.01 ... 0.022	35	35	50	80	110
0.033 ... 0.068	20	25	50	80	90
0.1 ... 0.47	15	20	50	80	80
0.68 ... 1.0	12	15	25	–	–
1.5 ... 3.3	7.5	10	–	–	–
4.7	5	5	–	–	–

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.

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	63 VDC/40 VAC*					100 VDC/63 VAC*				
	W	H	L	PCM**	Part number	W	H	L	PCM**	Part number
0.01 μ F	2.5	6.5	7.2	5	MKS2C021001A00	2.5	6.5	7.2	5	MKS2D021001A00
0.015 "	2.5	6.5	7.2	5	MKS2C021501A00	2.5	6.5	7.2	5	MKS2D021501A00
0.022 "	2.5	6.5	7.2	5	MKS2C022201A00	2.5	6.5	7.2	5	MKS2D022201A00
0.033 "	2.5	6.5	7.2	5	MKS2C023301A00	2.5	6.5	7.2	5	MKS2D023301A00
0.047 "	2.5	6.5	7.2	5	MKS2C024701A00	2.5	6.5	7.2	5	MKS2D024701A00
0.068 "	2.5	6.5	7.2	5	MKS2C026801A00	2.5	6.5	7.2	5	MKS2D026801A00
0.1 μ F	2.5	6.5	7.2	5	MKS2C031001A00	2.5	6.5	7.2	5	MKS2D031001A00
0.15 "	2.5	6.5	7.2	5	MKS2C031501A00	3.5	8.5	7.2	5	MKS2D031501C00
0.22 "	3	7.5	7.2	5	MKS2C032201B00	3.5	8.5	7.2	5	MKS2D032201C00
0.33 "	3.5	8.5	7.2	5	MKS2C033301C00	4.5	9.5	7.2	5	MKS2D033301E00
0.47 "	3.5	8.5	7.2	5	MKS2C034701C00	4.5	9.5	7.2	5	MKS2D034701E00
0.68 "	4.5	9.5	7.2	5	MKS2C036801E00	5	10	7.2	5	MKS2D036801F00
1.0 μ F	5	10	7.2	5	MKS2C041001F00	7.2	13	7.2	5	MKS2D041001K00
1.5 "	5.5	11.5	7.2	5	MKS2C041501H00	8.5	14	7.2	5	MKS2D041501M00
2.2 "	8.5	14	7.2	5	MKS2C042201M00	11	16	7.2	5	MKS2D042201N00
3.3 "	11	16	7.2	5	MKS2C043301N00	11	16	7.2	5	MKS2D043301N00
4.7 "	11	18	7.2	5	MKS2C044701O00	11	18	7.2	5	MKS2D044701O00

Capacitance	250 VDC/160 VAC*					400 VDC/200 VAC*				
	W	H	L	PCM**	Part number	W	H	L	PCM**	Part number
0.01 μ F	2.5	6.5	7.2	5	MKS2F021001A00	2.5	6.5	7.2	5	MKS2G021001A00
0.015 "	2.5	6.5	7.2	5	MKS2F021501A00	2.5	6.5	7.2	5	MKS2G021501A00
0.022 "	2.5	6.5	7.2	5	MKS2F022201A00	3.5	8.5	7.2	5	MKS2G022201C00
0.033 "	3.5	8.5	7.2	5	MKS2F023301C00	4.5	9.5	7.2	5	MKS2G023301E00
0.047 "	3.5	8.5	7.2	5	MKS2F024701C00	4.5	9.5	7.2	5	MKS2G024701E00
0.068 "	3.5	8.5	7.2	5	MKS2F026801C00	5.5	11.5	7.2	5	MKS2G026801H00
0.1 μ F	4.5	9.5	7.2	5	MKS2F031001E00	7.2	13	7.2	5	MKS2G031001K00
0.15 "	5	10	7.2	5	MKS2F031501F00	8.5	14	7.2	5	MKS2G031501M00
0.22 "	5.5	11.5	7.2	5	MKS2F032201H00	11	16	7.2	5	MKS2G032201N00
0.33 "	7.2	13	7.2	5	MKS2F033301K00	11	18	7.2	5	MKS2G033301O00
0.47 "	8.5	14	7.2	5	MKS2F034701M00	11	18	7.2	5	MKS2G034701O00
0.68 "	11	16	7.2	5	MKS2F036801N00					
1.0 μ F	11	18	7.2	5	MKS2F041001O00					

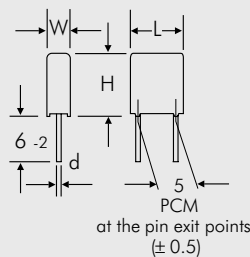
* AC voltage: $f \leq 50$ Hz; $1.4 \times U_{rms} + U_{DC} \leq U_r$

New values and box sizes.

** PCM = Printed circuit module = pin spacing.

Dims. in mm.

$$d = 0.5 \varnothing$$



Part number completion:	
Tolerance:	20 % = M
	10 % = K
	5 % = J
Packing:	bulk = S
Pin length:	6-2 = SD
Taped version see page 151.	

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Continuation page 45

Continuation

General Data

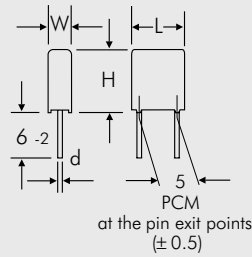
Capacitance	630 VDC/220 VAC*				Part number
	W	H	L	PCM**	
0.01 μF	4.5	9.5	7.2	5	MKS2J021001E00
0.015 "	5.0	10	7.2	5	MKS2J021501F00
0.022 "	5.5	11.5	7.2	5	MKS2J022201H00
0.033 "	7.2	13	7.2	5	MKS2J023301K00
0.047 "	8.5	14	7.2	5	MKS2J024701M00
0.068 "	11	16	7.2	5	MKS2J026801N00
0.1 μF	11	18	7.2	5	MKS2J031001O00

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

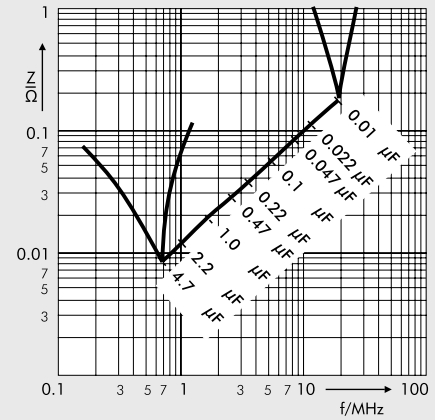
■ New values and box sizes.

** PCM = Printed circuit module = pin spacing.

Dims. in mm.



$$d = 0.5 \varnothing$$



Impedance change with frequency (general guide).

Part number completion:

Tolerance: 20 % = M

10 % = K

5 % = J

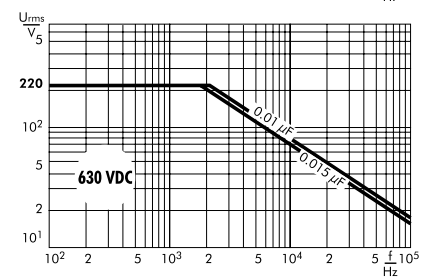
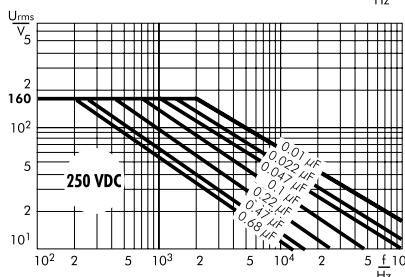
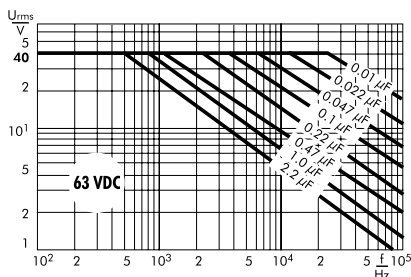
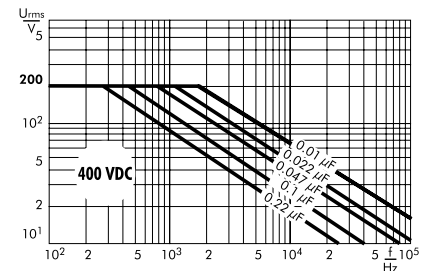
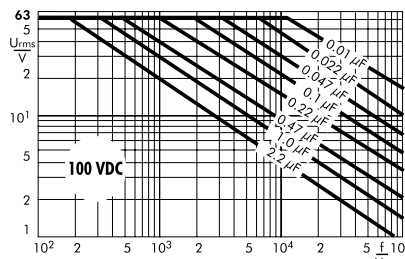
Packing: bulk = S

Pin length: 6-2 = SD

Taped version see page 151.

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

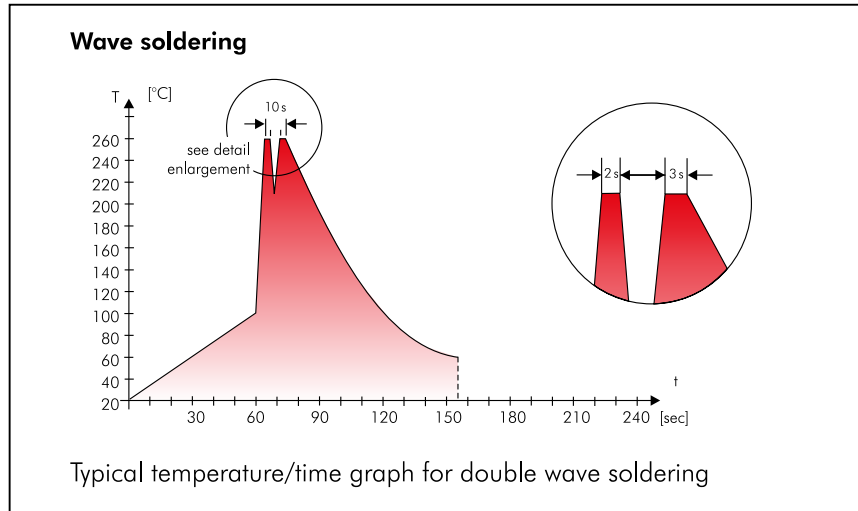
Single wave soldering

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

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

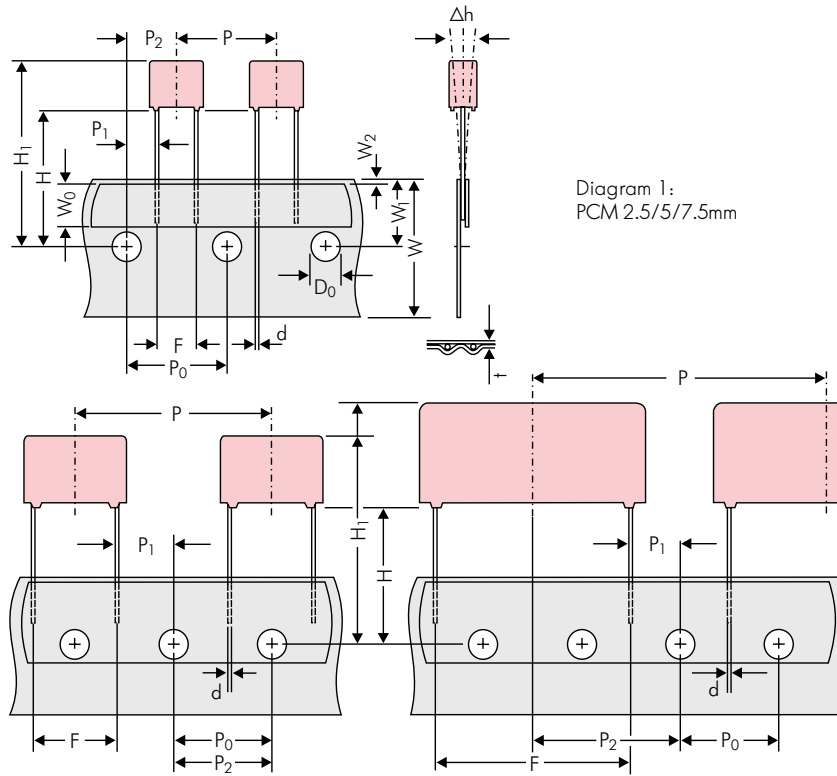


Diagram 1:
PCM 2.5/5/7.5mm

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 152)	▲	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 153.							

▲ 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.

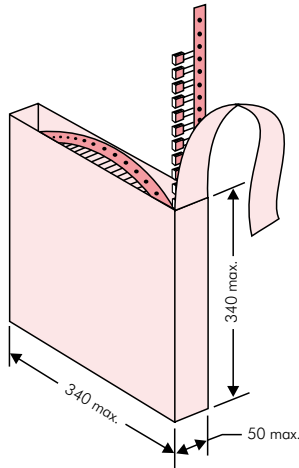
* PCM 10 and PCM 15 can be crimped to PCM 7.5.

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

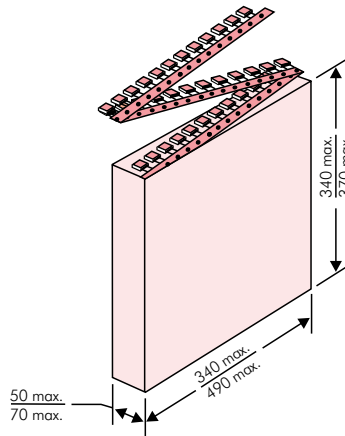


Types of Tape Packaging of Capacitors for Automatic Radial Insertion

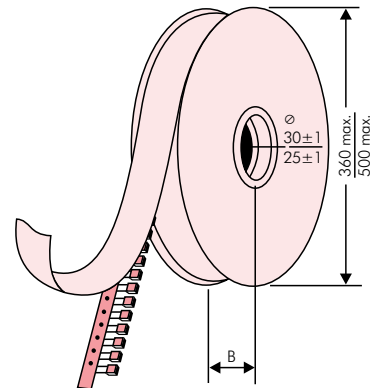
■ ROLL Packaging



■ 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
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	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
								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.

Rights reserved to amend design data without prior notification.

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-PPS = SMDI FKP 02 = FKPO MKS 02 = MKS0 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.