

Metallized Polyester (PET) Capacitors in PCM 5 mm.

Capacitances from 0.01 μF to 10 μF . Rated Voltages from 50 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

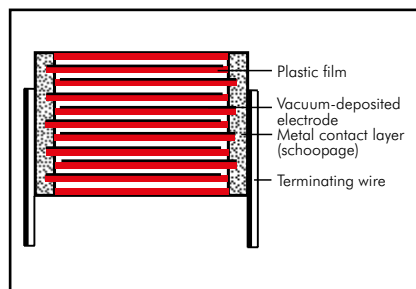
Dielectric:

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 10 μF (E12-values on request)

Rated voltages:

50 VDC, 63 VDC, 100 VDC, 250 VDC, 400 VDC, 630 VDC

Capacitance tolerances:

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

Operating temperature range:

$U_r = 50 \text{ VDC}$: -55°C to $+105^\circ \text{C}$

$U_r \geq 63 \text{ VDC}$: -55°C to $+125^\circ \text{C}$

Climatic test category:

55/100/21 in accordance with IEC

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

U_r	U_{test}	$C \leq 0.33 \mu\text{F}$	$0.33 \mu\text{F} < C \leq 10 \mu\text{F}$
50 VDC	10 V	$\geq 5 \times 10^3 \text{ M}\Omega$	$\geq 1000 \text{ sec (M}\Omega \times \mu\text{F)}$
63 VDC	50 V	$\geq 1 \times 10^4 \text{ M}\Omega$	$\geq 1250 \text{ sec (M}\Omega \times \mu\text{F)}$
$\geq 100 \text{ VDC}$	100 V	$\geq 1.5 \times 10^4 \text{ M}\Omega$	$\geq 3000 \text{ sec (M}\Omega \times \mu\text{F)}$

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					
	50 VDC	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	10	15	20	50	80	—
0.68 ... 1.0	8	12	15	25	—	—
1.5 ... 3.3	8	7.5	10	—	—	—
4.7	5	5	—	—	—	—
6.8	3	3	—	—	—	—
10	2.5	—	—	—	—	—

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:

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

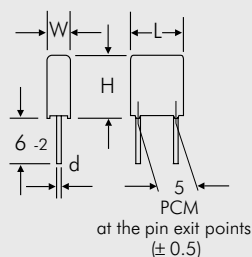
Capacitance	50 VDC/30 VAC*					63 VDC/40 VAC*				
	W	H	L	PCM**	Part number	W	H	L	PCM**	Part number
0.01 μ F						2.5	6.5	7.2	5	MKS2C021001A00
0.015 "						2.5	6.5	7.2	5	MKS2C021501A00
0.022 "						2.5	6.5	7.2	5	MKS2C022201A00
0.033 "						2.5	6.5	7.2	5	MKS2C023301A00
0.047 "						2.5	6.5	7.2	5	MKS2C024701A00
0.068 "						2.5	6.5	7.2	5	MKS2C026801A00
0.1 μ F						2.5	6.5	7.2	5	MKS2C031001A00
0.15 "						2.5	6.5	7.2	5	MKS2C031501A00
0.22 "						3	7.5	7.2	5	MKS2C032201B00
0.33 "	2.5	6.5	7.2	5	MKS2B033301A00	3.5	8.5	7.2	5	MKS2C033301C00
0.47 "	3	7.5	7.2	5	MKS2B034701B00	3.5	8.5	7.2	5	MKS2C034701C00
0.68 "	3.5	8.5	7.2	5	MKS2B036801C00	4.5	9.5	7.2	5	MKS2C036801E00
1.0 μ F	3.5	8.5	7.2	5	MKS2B041001C00	5	10	7.2	5	MKS2C041001F00
1.5 "	4.5	9.5	7.2	5	MKS2B041501E00	5.5	11.5	7.2	5	MKS2C041501H00
2.2 "	5	10	7.2	5	MKS2B042201F00	7.2	13	7.2	5	MKS2C042201K00
3.3 "	5.5	11.5	7.2	5	MKS2B043301H00	7.2	13	7.2	5	MKS2C043301K00
4.7 "	7.2	13	7.2	5	MKS2B044701K00	8.5	14	7.2	5	MKS2C044701M00
6.8 "	8.5	14	7.2	5	MKS2B046801M00	11	16	7.2	5	MKS2C046801N00
10 μ F	11	16	7.2	5	MKS2B051001N00					

Capacitance	100 VDC/63 VAC*					250 VDC/160 VAC*				
	W	H	L	PCM**	Part number	W	H	L	PCM**	Part number
0.01 μ F	2.5	6.5	7.2	5	MKS2D021001A00	2.5	6.5	7.2	5	MKS2F021001A00
0.015 "	2.5	6.5	7.2	5	MKS2D021501A00	2.5	6.5	7.2	5	MKS2F021501A00
0.022 "	2.5	6.5	7.2	5	MKS2D022201A00	2.5	6.5	7.2	5	MKS2F022201A00
0.033 "	2.5	6.5	7.2	5	MKS2D023301A00	3.5	8.5	7.2	5	MKS2F023301C00
0.047 "	2.5	6.5	7.2	5	MKS2D024701A00	3.5	8.5	7.2	5	MKS2F024701C00
0.068 "	2.5	6.5	7.2	5	MKS2D026801A00	3.5	8.5	7.2	5	MKS2F026801C00
0.1 μ F	2.5	6.5	7.2	5	MKS2D031001A00	4.5	9.5	7.2	5	MKS2F031001E00
0.15 "	3.5	8.5	7.2	5	MKS2D031501C00	5	10	7.2	5	MKS2F031501F00
0.22 "	3.5	8.5	7.2	5	MKS2D032201C00	5.5	11.5	7.2	5	MKS2F032201H00
0.33 "	4.5	9.5	7.2	5	MKS2D033301E00	7.2	13	7.2	5	MKS2F033301K00
0.47 "	4.5	9.5	7.2	5	MKS2D034701E00	8.5	14	7.2	5	MKS2F034701M00
0.68 "	5	10	7.2	5	MKS2D036801F00	11	16	7.2	5	MKS2F036801N00
1.0 μ F	7.2	13	7.2	5	MKS2D041001K00					
1.5 "	8.5	14	7.2	5	MKS2D041501M00					
2.2 "	11	16	7.2	5	MKS2D042201N00					

* 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 151.

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Continuation page 45

Continuation

General Data

Capacitance	400 VDC/200 VAC*					630 VDC/220 VAC*				
	W	H	L	PCM**	Part number	W	H	L	PCM**	Part number
0.01 μF	2.5	6.5	7.2	5	MKS2G021001A00	4.5	95	7.2	5	MKS2J021001E00
0.015 "	2.5	6.5	7.2	5	MKS2G021501A00	5.0	10	7.2	5	MKS2J021501F00
0.022 "	3.5	8.5	7.2	5	MKS2G022201C00	5.5	10	7.2	5	MKS2J022201H00
0.033 "	4.5	9.5	7.2	5	MKS2G023301E00	7.2	13	7.2	5	MKS2J023301K00
0.047 "	4.5	9.5	7.2	5	MKS2G024701E00	8.5	14	7.2	5	MKS2J024701M00
0.068 "	5.5	11.5	7.2	5	MKS2G026801H00	11	16	7.2	5	MKS2J026801N00
0.1 μF	7.2	13	7.2	5	MKS2G031001K00					
0.15 "	8.5	14	7.2	5	MKS2G031501M00					
0.22 "	11	16	7.2	5	MKS2G032201N00					

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

New box sizes and value.

** PCM = Printed circuit module = pin spacing.

Dims. in mm.

Part number completion:

Tolerance: 20 % = M

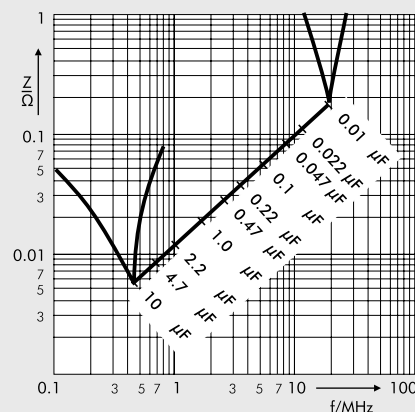
10 % = K

5 % = J

Packing: bulk = S

Pin length: 6-2 = SD

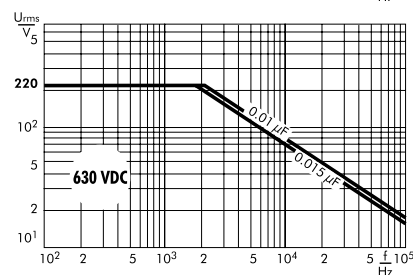
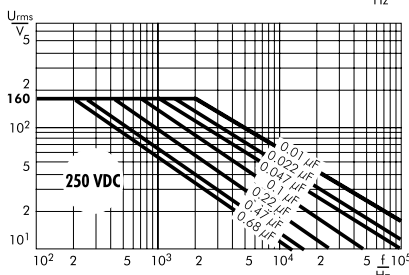
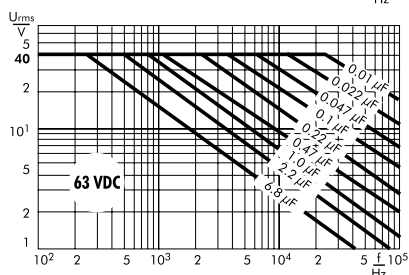
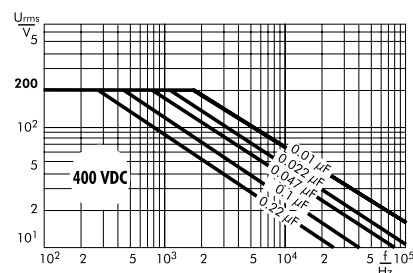
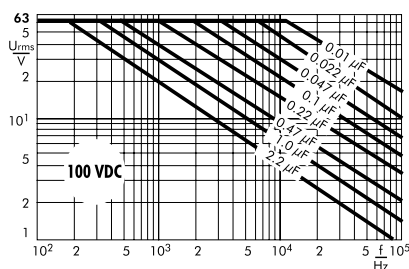
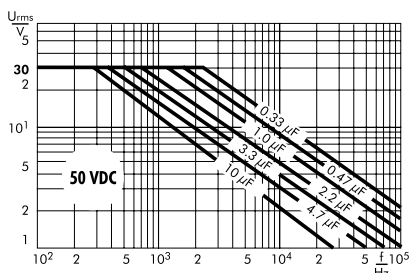
Taped version see page 151.



Impedance change with frequency (general guide).

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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: $T_{\max.} \leq 125^{\circ}\text{C}$
soldering: $T_{\max.} \leq 135^{\circ}\text{C}$

Polypropylene: preheating: $T_{\max.} \leq 100^{\circ}\text{C}$
soldering: $T_{\max.} \leq 110^{\circ}\text{C}$

Single wave soldering

Soldering bath temperature: $T < 260^{\circ}\text{C}$

Dwell time: $t < 5\text{ sec}$

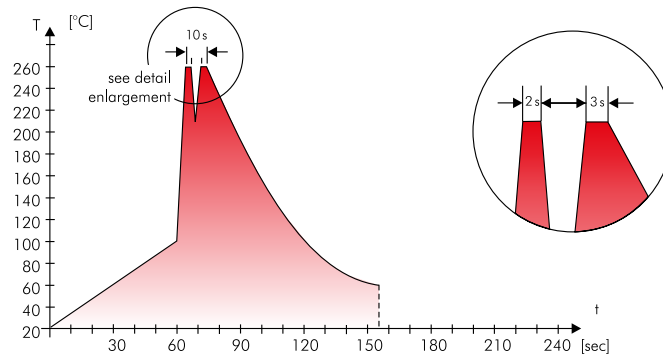
Double wave soldering

Soldering bath temperature: $T < 260^{\circ}\text{C}$

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.

Wave soldering



Typical temperature/time graph for double wave soldering

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

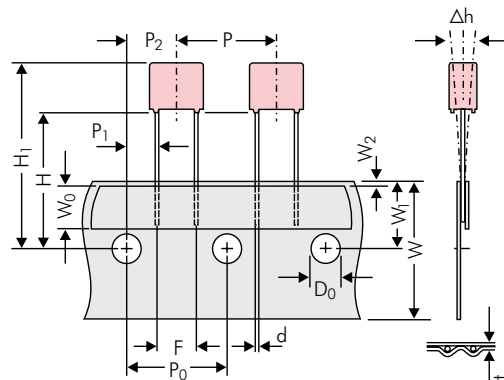


Diagram 1:
PCM 2.5/5/7.5mm

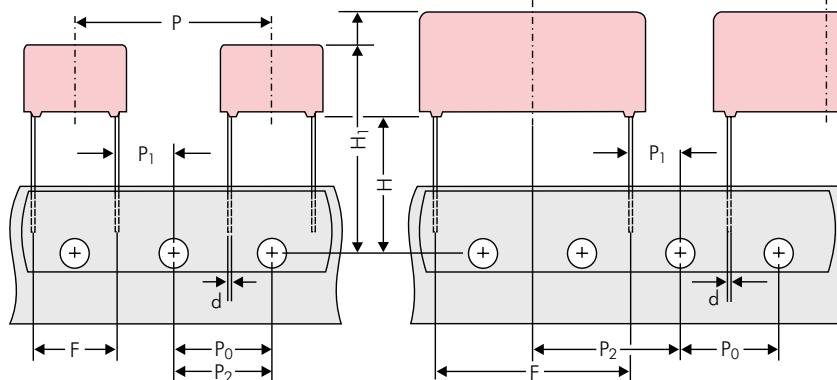


Diagram 2: PCM 10/15 mm

Diagram 3: PCM 22.5 and 27.5*mm

*PCM 27.5 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 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 or 66 ±2	REEL Ø 500 max. Ø 25 ±1	B 54 ±2 60 ±2 or 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.

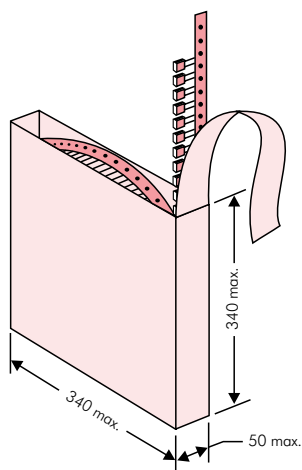
Please clarify customer-specific deviations with the manufacturer.

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

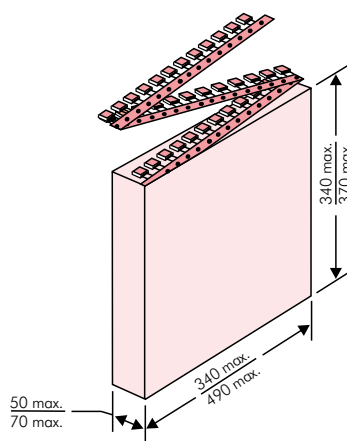
Position of components according to PCM 7.5 (sketch 1). P₀ = 12.7 or 15.0 is possible

Types of Tape Packaging of Capacitors for Automatic Radial Insertion

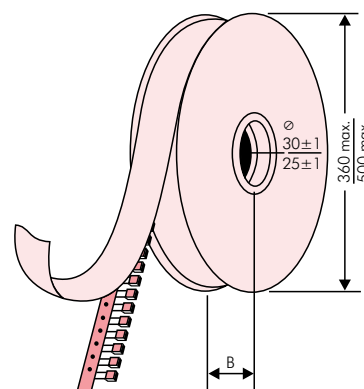
■ ROLL Packaging



■ AMMO Packaging



■ REEL Packaging



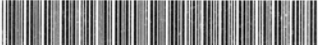
BAR CODE (Labelling)

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

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	
	
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
1002021443	QTY: 459 Week 19/2021

BARCODE PDF417
BARCODE 2D Datamatrix

Packing Quantities for Capacitors with Radial Pins in PCM 2.5 mm to 27.5 mm



PCM	Size				bulk	ROLL		pcs. per packing unit				AMMO			
								REEL							
	W	H	L	Codes		H16.5	H18.5	Ø 360	Ø 500	H16.5	H18.5	340 x 340	490 x 370	H16.5	H18.5
					S	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		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.

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Packing Quantities for Capacitors with Radial Pins in PCM 37.5 mm to 52.5 mm

PCM	Size				bulk	ROLL		pcs. per packing unit				AMMO			
						H16.5	H18.5	REEL		Ø 360	Ø 500	340 x 340		490 x 370	
	W	H	L	Codes				H16.5	H18.5			H16.5	H18.5	H16.5	H18.5
					S	N	O	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	
Type description:				Rated voltage:		Capacitance:				Size:				Tolerance:			
SMD-PET = SMDT				50 VDC = B0		22 pF = 0022				4.8x3.3x3 Size 1812 = KA				±20% = M			
SMD-PPS = SMDI				63 VDC = C0		47 pF = 0047				4.8x3.3x4 Size 1812 = KB				±10% = K			
FKP 02 = FKP0				100 VDC = D0		100 pF = 0100				5.7x5.1x3.5 Size 2220 = QA				±5% = J			
MKS 02 = MKS0				250 VDC = F0		150 pF = 0150				5.7x5.1x4.5 Size 2220 = QB				±2.5% = H			
FKS 2 = FKS2				400 VDC = G0		220 pF = 0220				7.2x6.1x3 Size 2824 = TA				±1% = E			
FKP 2 = FKP2				450 VDC = H0		330 pF = 0330				7.2x6.1x5 Size 2824 = TB				...			
FKS 3 = FKS3				520 VDC = H2		470 pF = 0470				10.2x7.6x5 Size 4030 = VA							
FKP 3 = FKP 3				600 VDC = I0		680 pF = 0680				12.7x10.2x6 Size 5040 = XA							
MKS 2 = MKS2				630 VDC = J0		1000 pF = 1100				15.3x13.7x7 Size 6054 = YA							
MKP 2 = MKP2				700 VDC = K0		1500 pF = 1150				2.5x7x4.6 PCM2.5 = 0B				Packing:			
MKS 4 = MKS4				800 VDC = L0		2200 pF = 1220				3x7.5x4.6 PCM2.5 = 0C				AMMO H16.5 340x340 = A			
MKP 4 = MKP4				850 VDC = M0		3300 pF = 1330				2.5x6.5x7.2 PCM5 = 1A				AMMO H16.5 490x370 = B			
MKP 10 = MKP1				900 VDC = N0		4700 pF = 1470				3x7.5x7.2 PCM5 = 1B				AMMO H18.5 340x340 = C			
FKP 4 = FKP4				1000 VDC = O1		6800 pF = 1680				2.5x7x10 PCM7.5 = 2A				AMMO H18.5 490x370 = D			
FKP 1 = FKP1				1100 VDC = P0		0.01 µF = 2100				3x8.5x10 PCM7.5 = 2B				REEL H16.5 360 = F			
MKP-X2 = MKX2				1200 VDC = Q0		0.022 µF = 2220				3x9x13 PCM10 = 3A				REEL H16.5 500 = H			
MKP-X1 R = MKX1				1250 VDC = R0		0.047 µF = 2470				4x9x13 PCM10 = 3C				REEL H18.5 360 = I			
MKP-Y2 = MKY2				1500 VDC = S0		0.1 µF = 3100				5x11x18 PCM15 = 4B				REEL H18.5 500 = J			
MKP 4F = MKPF				1600 VDC = T0		0.22 µF = 3220				6x12.5x18 PCM15 = 4C				ROLL H16.5 = N			
Snubber MKP = SNMP				1700 VDC = TA		0.47 µF = 3470				6x14x26.5 PCM22.5 = 5A				ROLL H18.5 = O			
Snubber FKP = SNFP				2000 VDC = U0		1 µF = 4100				6x15x26.5 PCM22.5 = 5B				BLISTER W12 180 = P			
GTO MKP = GTOM				2500 VDC = V0		2.2 µF = 4220				9x19x31.5 PCM27.5 = 6A				BLISTER W12 330 = Q			
DC-LINK MKP 4 = DCP4				3000 VDC = W0		4.7 µF = 4470				11x21x31.5 PCM27.5 = 6B				BLISTER W16 330 = R			
DC-LINK MKP 6 = DCP6				4000 VDC = X0		10 µF = 5100				9x19x41.5 PCM37.5 = 7A				BLISTER W24 330 = T			
DC-LINK HC = DCHC				6000 VDC = Y0		22 µF = 5220				11x22x41.5 PCM37.5 = 7B				Bulk/TPS Standard = S			
				230 VAC = 3Y		47 µF = 5470				19x31x56 PCM 48.5 = 8D				...			
				275 VAC = 1W		100 µF = 6100				25x45x57 PCM 52.5 = 9D							
				300 VAC = 2W		220 µF = 6220				...							
				305 VAC = AW		1000 µF = 7100											
				350 VAC = BW		1500 µF = 7150											
				440 VAC = 4W		...											
				...													
										</							

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.