WIMA MKS 02



Metallized Polyester (PET) Capacitors in PCM 2.5 mm. Capacitances from 3300 pF to 1.0 μ F. Rated Voltages from 63 VDC to 400 VDC.

Special Features

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

Typical Applications

For general DC-applications e.g.

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

Construction

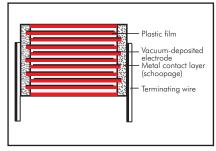
Dielectric:

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: Silver.

Electrical Data

Capacitance range:

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

Rated voltages:

63 VDC, 100 VDC, 250 VDC, 400 VDC

Capacitance tolerances:

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

Operating temperature range:

-55° C to +100° C

Test specifications:

In accordance with IEC 60384-2

Climatic test category:

55/100/21 in accordance with IEC

Insulation resistance at +20° C:

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

at f	C≤0.1 µ F	$0.1 \mu F < C \le 1.0 \mu F$
10 kHz	≤ 8 x 10 ⁻³ ≤ 15 x 10 ⁻³	$\leq 15 \times 10^{-3}$
100 kHz	≤30 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 < 2 fit (0.5 x U, and 40° C)

U _r	U _{test}	C ≤ 0.33 µF	0.33 µF < C ≤ 1.0 µF)
63 VDC	50 V	$\geq 3.75 \times 10^3 \mathrm{M}\Omega$	≥ 1250 sec (MΩ x μF)
> 100 VDC	100 V	≥ 1 x 10 ⁴ MΩ	-

Measuring time: 1 min. **Test voltage:** 1.6 U_r, 2 sec. **Maximum pulse rise time:**

Capacitance	Pulse rise time V/µsec
pF/ µ F	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

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.

WIMA MKS 02



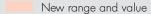
Continuation

General Data

Capacitance	63 VDC/40 VAC* W H L PCM** Part number						100 VDC/63 VAC* W H L						
0.01 µF 0.015 " 0.022 " 0.033 " 0.047 " 0.068 "	2.5 2.5 2.5 2.5 2.5 2.5 2.5	7 7 7 7 7	4.6 4.6 4.6 4.6 4.6 4.6	2.5 2.5 2.5 2.5 2.5 2.5 2.5	MKS0C021000B00 MKS0C021500B00 MKS0C022200B00 MKS0C023300B00 MKS0C024700B00 MKS0C026800B00	2.5 2.5 2.5 2.5 2.5 2.5 2.5	7 7 7 7 7	4.6 4.6 4.6 4.6 4.6 4.6	2.5 2.5 2.5 2.5 2.5 2.5	MKS0D021000B00 MKS0D021500B00 MKS0D022200B00 MKS0D023300B00 MKS0D024700B00 MKS0D026800B00			
0.1 µF 0.15 " 0.22 " 0.33 " 0.47 " 0.68 "	3 3 3.8 4.6 5.5	7.5 7.5 7.5 8.5 9	4.6 4.6 4.6 4.6 4.6 4.6	2.5 2.5 2.5 2.5 2.5 2.5 2.5	MKS0C031000C00 MKS0C031500C00 MKS0C032200C00 MKS0C033300D00 MKS0C034700E00 MKS0C036800F00	3 3.8 4.6 5.5	7.5 8.5 9 10	4.6 4.6 4.6 4.6	2.5 2.5 2.5 2.5 2.5	MKS0D031000C00 MKS0D031500D00 MKS0D032200E00 MKS0D033300F00			
1.0 µF	5.5	10	4.6	2.5	MKS0C041000F00								

Capacitance			25	50 VDC/	160 VAC*	400 VDC/200 VAC*						
Capacilance	\vee	Н	L	PCM**	Part number	W	Н	L	PCM**	Part number		
3300 pF	2.5	7	4.6	2.5	MKS0F013300B00	2.5	7	4.6	2.5	MKS0G013300B00		
4700 "	2.5	7	4.6	2.5	MKS0F014700B00	2.5	7	4.6	2.5	MKS0G014700B00		
6800 "	2.5	7	4.6	2.5	MKS0F016800B00	2.5	7	4.6	2.5	MKS0G016800B00		
0.01 µ F	2.5	7	4.6	2.5	MKS0F021000B00	3	7.5	4.6	2.5	MKS0G021000C00		
0.015 "	2.5	7	4.6	2.5	MKS0F021500B00	3.8	8.5	4.6	2.5	MKS0G021500D00		
0.022 "	2.5	7	4.6	2.5	MKS0F022200B00	4.6	9	4.6	2.5	MKS0G022200E00		
0.033 "	3	7.5	4.6	2.5	MKS0F023300C00	5.5	10	4.6	2.5	MKS0G023300F00		
0.047 "	3.8	8.5	4.6	2.5	MKS0F024700D00	5.5	10	4.6	2.5	MKS0G024700F00		
0.068 "	4.6	9	4.6	2.5	MKS0F026800E00							
0.1 µ F	5.5	10	4.6	2.5	MKS0F031000F00							

^{*} AC voltage: f = 50 Hz; 1.4 x U_{rms} + UDC \leq U_{r}



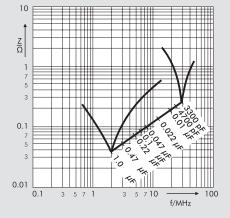
** PCM = Printed circuit module = pin spacing

Dims. in mm.

$$d = 0.4 \ \emptyset$$

Part number completion:

Tolerance: 20 % = M
10 % = K
5 % = J
Packing: bulk = S
Pin length: 6-2 = SD
Taped version see page 149.



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

Internal temperature of the capacitor must be kept as follows:

Polyester: preheating: $T_{max.} \le 125^{\circ} \text{ C}$ soldering: $T_{max.} \le 135^{\circ} \text{ C}$

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

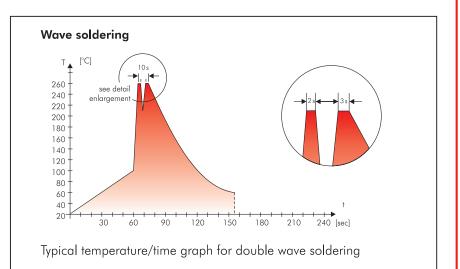
Single wave soldering

Soldering bath temperature: T < 260 ° C Dwell time: t < 5 sec

Double wave soldering

Soldering bath temperature: $T < 260^{\circ}$ C Dwell time: $\Sigma t < 5$ 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 WPCSI 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.

LeadPBB/PBDEPCBArsenic

etc.

CFC
 Hydrocarbon chloride
 Mercury

We merely use pure, recyclable materials for packing our components, such as:

- carton
- cardboard

- Chromium 6+

- 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 refraind from using such substances since years already.



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



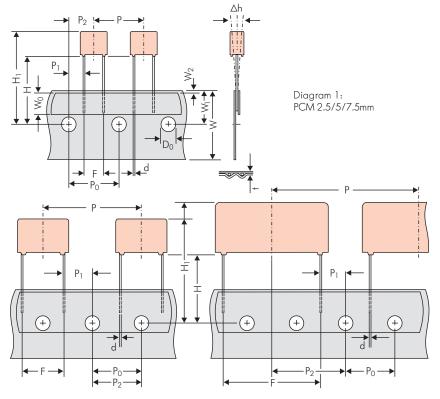


Diagram 2: PCM 10/15 mm

Diagram 3: PCM 22.5 and 27.5*mm
*PCM 27.5 taping possible with two feed holes between components

				Dimen	sions 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	Р	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	cumulative pitch 12.7 ±0.3 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.	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	cumulative 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	Н	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				
edge of the component	- ' '	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.	\pm 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				
6 -		ROLL//	AMMO	AMMO								
Package (see also page 150)		REEL Ø 360 max. Ø 30 ±1	$\left. \begin{array}{c} 8.52 \pm 2 \\ 58 \pm 2 \end{array} \right\} \begin{array}{c} \text{depending on} \\ \text{comp. dimensions} \end{array}$	REEL # 360 max. B 58 ± 2 or REEL # 500 max. S 4 ± 2 of POM and $9 \times 30 \pm 1$ 66 ± 2 on POM and component dimensions								
Unit					see details page 151.							

Dims in mm.

PCM 10 and PCM 15 can be crimped to PCM 7.5. Position of components according to PCM 7.5 (sketch 1). $P_0=12.7$ or 15.0 is possible

Please clarify customer-specific deviations with the manufacturer.

[•] Diameter of pins see General Data.

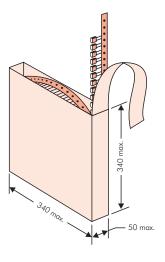
Types of Tape Packaging of Capacitors for Automatic Radial Insertion

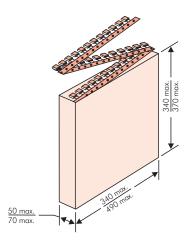


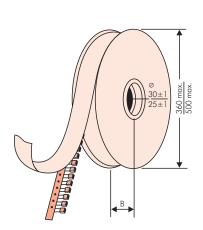
■ ROLL Packaging

AMMO Packaging

■ REEL Packaging







BAR CODE (Labelling)

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

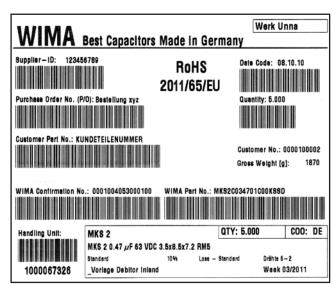
Scanner decoding of

- 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.



BARCODE "Code 39"

Packing Quantities for Capacitors with Radial Pins in PCM 2.5 mm to 22.5 mm



								ncs	per po	acking u	ınit				
		Si	ze			RC	LL		RE	EL				МО	
PCM		01.	20		bulk	 ⊔165	Ι μ 1 Ω 5	Ø 30 H16.5		Ø 5 □ □ 1 6 5 1		340 ×		490 ×	
	W	Н	L	Codes	S	N	O	F	I	H	J	A	C	B	D
	2.5	7	4.6	0B	5000	22		250		-	-	280		_	-
2.5 mm	3	7.5	4.6	0C	5000	20		230	00	-	-	230		-	
2.5 mm	3.8 4.6	8.5 9	4.6 4.6	OD OE	5000 5000	15 12		180 150		_	-	180 150		_	
	5.5	10	4.6	0F	5000		00	120		_	-	120		_	_
	2.5	6.5	7.2	1A	5000	22		250	00	-	-	280		-	_
	3	7.5	7.2	1B	5000	20		230		-	-	230		-	-
	3.5	8.5	7.2	1C	5000	16		200		-	-	200		-	-
	4.5 4.5	6 9.5	7.2 7.2	1D 1E	6000 4000	13 13		150 150		_	-	150 150			
	5	10	7.2	1F	3500	110		140		_	_	140		_	
5 mm	5.5	7	7.2	1G	4000		00	120	00	-	-	120		-	-
5 111111	5.5	11.5	7.2	1H	2500		00	120		-		120		-	
	6.5 7.2	8 8.5	7.2 7.2	11 1J	2500 2500		00	100		_	-	100		_	
	7.2	13	7.2	1K	2000		00	95		_	-	100		_	_
	8.5	10	7.2	1L	2000		00	80	00	-	-		00	-	-
	8.5	14	7.2	1M	1500		00	80		-	-		00	-	
	2.5	16 7	7.2 10	1N 2A	1000 5000)	00			4.4			40		-
	3	8.5	10	2B	5000	_	-	250 220		44 43		250 230		41:	
	4	9	10	2C	4000	-	-	170		32		170		310	
7.5 mm	4.5	9.5	10.3	2D	3500	-	-	150		29		140		27	00
	5 5.7	10.5	10.3	2E 2F	3000	-	-	130		25		130		-	-
	7.2	12.5 12.5	10.3 10.3	2F 2G	2000 1500	_		100)()	2200 1800		1100 1000		-	
	3	9	13	3A	3000	-	-	110	00	22		_		190	
	4	8.5	13.5	FA	3000	-		90		16		-			50
	4	9 9.5	13 13	3C 3D	3000 3000	-	-	90 90		16 16		_		14:	
10 mm	5	10	13.5	FB	2000	-	_	70		13		_		12	
	5	11	13	3F	3000	-	-	70	00	13	00	-		120	00
	6	12	13	3G	2400	-		55		110		-		10	
	6 8	12.5 12	13 13	3H 3I	2400 2000	-		55 40		110	00	_		100	40
	5	11	18	4B	2400	<u> </u>		60		12		_		113	
	5	13	19	FC	1000	-	-	60	00	12		_		120	
	6	12.5	18	4C	2000	-	-	50		10		-		100	
	6 7	14 14	19 18	FD 4D	1000 1600	-		50 45		10	00 00	_		10	00 50
	7	15	19	FE	1000	-	- -	45			00	_			50
15 mm	8	15	18	4F	1200	-	-	40	00	8	00	_			40
	8	17	19	FF	500	-	-	40			00	-			40
	9	14 16	18 18	4H 4J	1200 900	-	-	35 35			00	-			50 50
	10	18	19	FG	500	-	-	30			50	_			90
	11	14	18	4M	1000	-	-	30			00	-			40
	5	14	26.5	5A	1200	-	-	-			00	_			70
	6	15	26.5	5B	1000	-	-	-			00	-			40
	7 8	16.5 20	26.5 28	5D FH	760 500		-	_			00	_			50 80
22.5 mm	8.5	18.5	26.5	5F	500	-	-	_			80	-			50
22.5 IIIII	10	22	28	FI	570*	-	-	_		4	20	-			80
	10.5	19	26.5	5G	594* 504*	-	-	_			00	-			60
	10.5 11	20.5 21	26.5 26.5	5H 5I	594* 561*			_			00 80	_			60 50
	12	24	28	FJ	480*	-	-	-			50	-			10

^{*} 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.

Moulded versions.

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



								рс	s. per p	acking u	ınit				
		Si				RC	LL		RE	EL			AM	MO	
PCM		51	ze		bulk			ø 360		ø 500		340 × 340		490 × 370	
					H16.		H18.5	H16.5 H18.5		H16.5	H18.5	H16.5	H18.5	H16.5	H18.5
	W	Н	L	Codes	S	N	N O		Ι	Н	J	Α	С	В	D
	9	19	31.5	6A	567*	-	_		_	460/	340*	-	_	420	
	11	21	31.5	6B	459*	_		-	-	380/		-	-		50
	13	24	31.5	6D	378*	-	-	-	-	3	00	-	-	2	90
	13	25	33	FK	405*	-	-	-	-	-	-	-	-		-
27.5 mm	15	26	31.5	6F	324*	-	-	-	-	2	70	-	-	2	50
_,,,,	15	26	33	FL	324*	-			-	-	-		-	-	-
	17 17	29 34.5	31.5 31.5	6G 6I	198* 198*	-			-	-	-	-	-	-	-
	20	32	33	FM	162*	-			- -	_	-		_		_
	20	39.5	31.5	6J	162*	-			-	-		-	_	-	-
	9	19	41.5	7A	441*	_	_	_		_	_				_
	11	22	41.5	7B	357*	-	-	-	-	_		-	-		-
	13	24	41.5	7C	294*	-	-	-	-	-	-	-	-	-	-
	15	26	41.5	7D	252*	-	-	_		- !		-		-	
37.5 mm	17 19	29 32	41.5 41.5	7E 7F	154* 140*	-	-	_		_		_		-	-
37.5 mm	20	39.5	41.5	7F 7G	126*	_		_		_		_		_	
	24	45.5	41.5	7H	112*		_		_	_	_		_		
	31	46	41.5	71	84*	_	-	_	_	-	-	-	_	-	_
	35	50	41.5	7J	35*	-	-	-	_	-	-	-	_	-	-
	40	55	41.5	7K	28*	-	-	-	-	_	-	-	-	-	-
	19	31	56	8D	120*	-	-	-	-	-	-	-	-	-	-
48.5 mm	23	34	56	8E	80*	-	-	-	-	-	-	-	-	-	-
40.5 mm	27	37.5 48	56 56	8H	84*	-	-	-	-	-	-	-	-	-	-
	33 37	54	56	8F	25* 25*	_	-		-	_	-		_		_
	25	45	57	9D	70*	_	-		_	_	-	-		_	_
50.5	30	45	57	9E	60*										
52.5 mm	35	50	57	9F	25*										
	45	55	57	9H	20*	-	-	-	-	-	-	-	-	-	-
	45	65	57	9J	20*	-	-				-			-	_

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

Updated data on www.wima.com

^{*} for 2-inch transport pitches.
* TPS (Tray-Packing-System). Plate versions may have different packing units. Samples and pre-production needs on request.

-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

Packing Field 16:

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	С	0	2	1	0	0	1	Α	0	0	М	S	S	D
	MK	S 2		63 \	/DC		0.0	lμF		2.5×6.	.5×7.2		-	20%	bulk	6	-2

l		.		l	l
Type description:		Rated voltage:	Capacitance:	Size:	Tolerance:
	SMDT	50 VDC = B0	22 pF = 0022	$4.8 \times 3.3 \times 3$ Size $1812 = KA$	$\pm 20\% = M$
	SMDN	63 VDC = C0	47 pF = 0047	4.8 x 3.3 x 4 Size 1812 = KB	$\pm 10\% = K$
	SMDI	100 VDC = D0	100 pF = 0100	$5.7 \times 5.1 \times 3.5$ Size $2220 = QA$	$\pm 5\%$ = J
	FKP0	250 VDC = FO	150 pF = 0150	$5.7 \times 5.1 \times 4.5$ Size $2220 = QB$	$\pm 2.5\% = H$
		400 VDC = G0	220 pF = 0220	$7.2 \times 6.1 \times 3$ Size 2824 = TA	$\pm 1\% = E$
	FKS2	450 VDC = H0	330 pF = 0330	7.2 x 6.1 x 5 Size 2824 = TB	
1	FKP2	520 VDC = H2	470 pF = 0470	$10.2 \times 7.6 \times 5$ Size $4030 = VA$	
FKS 3 =	FKS3	600 VDC = 10	680 pF = 0680	12.7x 10.2x6 Size 5040 = XA	
FKP 3 =	FKP 3	630 VDC = J0	1000 pF = 1100	$15.3 \times 13.7 \times 7$ Size $6054 = YA$	Packing:
MKS 2 =	MKS2	700 VDC = KO	1500 pF = 1150	$2.5 \times 7 \times 4.6 \text{ PCM } 2.5 = 0B$	AMMO H16.5 $340 \times 340 = A$
MKP 2 =	MKP2	800 VDC = 10	2200 pF = 1220	$3 \times 7.5 \times 4.6 \text{ PCM } 2.5 = 0 \text{C}$	AMMO H16.5 $490 \times 370 = B$
MKS 4 =	MKS4	850 VDC = M0	3300 pF = 1330	$2.5 \times 6.5 \times 7.2 \text{ PCM}5 = 1A$	AMMO H18.5 $340 \times 340 = C$
MKP 4C =	MKPC	900 VDC = N0	4700 pF = 1470	$3 \times 7.5 \times 7.2 \text{ PCM} 5 = 1B$	AMMO H18.5 $490 \times 370 = D$
MKP 4 =	MKP4	1000 VDC = O1	6800 pF = 1680	$2.5 \times 7 \times 10 \text{ PCM } 7.5 = 2A$	REEL H16.5 360 = F
MKP 10 =	MKP1	1100 VDC = P0	$0.01 \mu F = 2100$	$3 \times 8.5 \times 10 \text{ PCM } 7.5 = 2B$	REEL H16.5 500 = H
FKP 1 =	FKP1	1200 VDC = Q0	$0.022 \mu F = 2220$	$3 \times 9 \times 13 \text{ PCM } 10 = 3A$	REEL H18.5 360 =
MKP-X2 =	MKX2	1250 VDC = R0	$0.047 \mu F = 2470$	$4 \times 9 \times 13 \text{ PCM } 10 = 3C$	REEL H18.5 500 = J
MKP-X1R =	MKX1	1500 VDC = S0	$0.1 \mu F = 3100$	$5 \times 11 \times 18 \text{ PCM } 15 = 4B$	ROLL H16.5 = N
	MKY2	1600 VDC = T0	$0.22 \mu F = 3220$	$6 \times 12.5 \times 18 \text{ PCM } 15 = 4 \text{ C}$	ROLL H18.5 = O
MP 3-X2 $=$	MPX2	2000 VDC = U0	$0.47 \mu F = 3470$	$5 \times 14 \times 26.5 \text{ PCM } 22.5 = 5A$	BLISTER W12 180 $= P$
MP 3-X1 =	MPX1	2500 VDC = V0	$1 \mu F = 4100$	$6 \times 15 \times 26.5 \text{ PCM } 22.5 = 5B$	BLISTER W12 330 $= Q$
MP $3-Y2 =$	MPY2	3000 VDC = W0	$2.2 \mu F = 4220$	$9 \times 19 \times 31.5 \text{ PCM } 27.5 = 6A$	BLISTER W16 330 $= R$
MP 3R-Y2 =	MPRY	4000 VDC = X0	$4.7 \mu F = 4470$	$11 \times 21 \times 31.5 \text{ PCM } 27.5 = 6B$	BLISTER W24 330 $=$ T
MKP 4F =	MKPF	6000 VDC = Y0	$10 \mu F = 5100$	$9 \times 19 \times 41.5 \text{ PCM} 37.5 = 7A$	Bulk/TPS Standard = S
Snubber MKP =		250 VAC = 0W	$22 \mu F = 5220$	$11 \times 22 \times 41.5 \text{ PCM} 37.5 = 7B$	
Snubber FKP =		275 VAC = 1 W	$47 \mu F = 5470$	$19 \times 31 \times 56$ PCM $48.5 = 8D$	
		300 VAC = 2W	$100 \mu F = 6100$	$25 \times 45 \times 57$ PCM $52.5 = 9D$	
DC-LINK MKP 3 =		305 VAC = AVV	$220 \mu F = 6220$	l	
DC-LINK MKP 4 =		350 VAC = BW	$1000 \mu F = 7100$		
DC-LINKMKP4S =		440 VAC = 4VV	$1500 \mu F = 7150$	Vancian and a	Discharged (see to see al)
DC-LINK MKP 5 =		500 VAC = 5W		Version code:	Pin length (untaped)
DC-LINK MKP 6 =				Standard = 00	$3.5 \pm 0.5 = C9$
	DCHC			Version A1 $= 1A$	6-2 = SD
DC-LINK HY =	DCHY			Version A1.1.1 = 1B	$16 \pm 1 = P1$

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.

Version A1.1.1 = 1BVersion A2 = 2A

Pin length (taped)