WIMA MKS 02



Metallized Polyester (PET) Capacitors in PCM 2.5 mm. Capacitances from 3300 pF to 1.0 μF. 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 2015/863/EU

Typical Applications

For general DC-applications e.g.

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

Construction

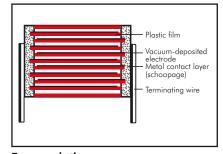
Dielectric:

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:

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 $+105^{\circ}$ C

Test specifications:

In accordance with IEC 60384-2

Climatic test category:

55/100/21 in accordance with IEC

Insulation resistance at +20° C:0

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

at f	C≤0.1 µF	$0.1 \mu F < C \le 1.0 \mu F$
10 kHz	≤ 8x10 ⁻³ ≤15x10 ⁻³ ≤30x10 ⁻³	$\leq 15 \times 10^{-3}$

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 > 300000 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	≥ 3.75 x 10 ³ MΩ	≥ 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 pF/µF	max. pulse rise time V/μsec
3300 6800 0.01 0.022	
0.033 0.068	30
0.1 0.33	20
0.47 1.0	15

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

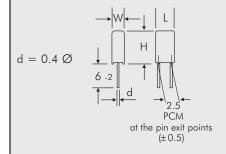
General Data

Canacitanas			6	3 VDC/	40 VAC*	100 VDC/63 VAC*						
Capacitance	W	Н	L	PCM**	Part number	W	Н	L	PCM**	Part number		
0.01 µF	2.5	7	4.6	2.5	MKS0C021000B00	2.5	7	4.6	2.5	MKS0D021000B00		
0.015 "	2.5	7	4.6	2.5	MKS0C021500B00	2.5	7	4.6	2.5	MKS0D021500B00		
0.022 "	2.5	7	4.6	2.5	MKS0C022200B00	2.5	7	4.6	2.5	MKS0D022200B00		
0.033 "	2.5	7	4.6	2.5	MKS0C023300B00	2.5	7	4.6	2.5	MKS0D023300B00		
0.047 "	2.5	7	4.6	2.5	MKS0C024700B00	2.5	7	4.6	2.5	MKS0D024700B00		
0.068 "	2.5	7	4.6	2.5	MKS0C026800B00	2.5	7	4.6	2.5	MKS0D026800B00		
0.1 µF	3	7.5	4.6	2.5	MKS0C031000C00	3	7.5	4.6	2.5	MKS0D031000C00		
0.15 "	3	7.5	4.6	2.5	MKS0C031500C00	3.8	8.5	4.6	2.5	MKS0D031500D00		
0.22 "	3	7.5	4.6	2.5	MKS0C032200C00	4.6	9	4.6	2.5	MKS0D032200E00		
0.33 "	3.8	8.5	4.6	2.5	MKS0C033300D00	5.5	10	4.6	2.5	MKS0D033300F00		
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	MKS0C041000F00							

Capacitance	\ \ /		25	-,	160 VAC*	400 VDC/200 VAC*						
'	W	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 µF	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 µF	5.5	10	4.6	2.5	MKS0F031000F00							

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

Dims. in mm.

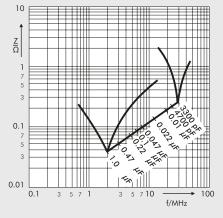


Part number completion:

Tolerance: 20 % = M
10 % = K
5 % = J

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

Taped version see page 157.



Impedance change with frequency (general guide).

Rights reserved to amend design data without prior notification.

^{**} PCM = Printed circuit module = pin spacing

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

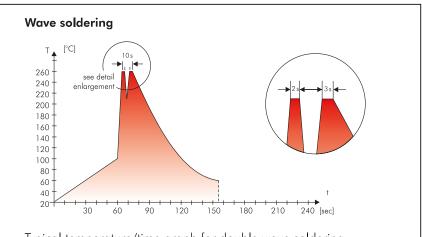
Single wave soldering

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

Double wave soldering

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

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



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
 PBB/PBDE
 Arsenic
 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:

- 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 likee.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-fraind 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



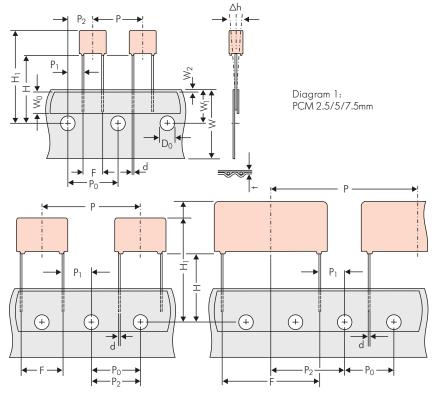


Diagram 2: PCM 10/15 mm

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

				Dimens	ions for Radia	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	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. $1.0 \text{ mm/} 20 \text{ pitch}$	cumulative pitch 12.7 ± 0.3 error max. 1.0 mm/20 pitch	cumulative pitch 12.7 ± 0.3 error max. $1.0 \text{ mm/} 20 \text{ pitch}$	cumulative pitch 12.7 ± 0.3 error max. $1.0 \text{ mm/} 20 \text{ pitch}$	cumulative pitch 12.7 ± 0.3 error max. $1.0 \text{ mm/} 20 \text{ pitch}$	cumulative pitch 12.7 ± 0.3 error max. $1.0 \text{ mm/} 20 \text{ pitch}$	cumulative pitch 12.7 ± 0.3 error max. $1.0 \text{ mm/} 20 \text{ pitch}$			
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	НА	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	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}	$^{\circ}0.5 \pm 0.05 \text{ or } 0.6^{+0.06}_{-0.05}$	0.8+0.08	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			
		ROLL/	AMMO			AMMO					
Package (see also page 158)	A	REEL Ø 360 max. Ø 30 ± 1	$B \begin{bmatrix} 52 \pm 2 \\ 58 \pm 2 \end{bmatrix}$ depending on comp. dimensions	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$							
Unit			see details page 159.								

 $^{{\}bf \blacktriangle}$ 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). $P_0=12.7$ or 15.0 is possible

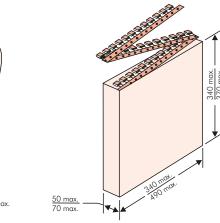
Types of Tape Packaging of Capacitors for Automatic Radial Insertion

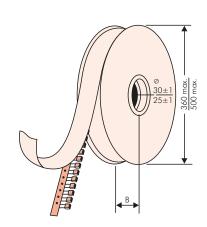


■ ROLL Packaging

AMMO Packaging

■ REEL Packaging





BAR CODE (Labelling)

Labelling of package units in plain text and with alphanumerical 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

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



					pcs. per packing unit ROLL REEL AMMO											
		Si	7e			RC	LL	<i>α</i> 2		1	-00	240 8			v 070	
PCM		0.			bulk	 ⊔14.5	I ш10 Б	Ø 3 H16.5		Ø 5 H16.5	H18.5	340 ×			× 370 H18.5	
	W	Н	<u> </u>	Codes	S	N	O	F	III0.3	H	J.	A	C	B	D	
	2.5	7	4.6	OB	5000	22		250				280				
	3	7.5	4.6	0C	5000		2000		2300		_		2300		_	
2.5 mm	3.8	8.5	4.6	0D	5000	15		1800 1500 1200		-	-	1800		-	-	
	4.6 5.5	9	4.6 4.6	OE OF	5000 5000	12	00 00				-		1500 1200		_	
	2.5	6.5	7.2	1A	5000			250		_		280		-		
	3	7.5	7.2	1B	5000	20		230		_	_	230			_	
	3.5	8.5	7.2	1C	5000	16		200		-	-	200		-	-	
	4.5	6	7.2	1D	6000	13		150		-	-	150		-	-	
	4.5 5	9.5 10	7.2 7.2	1E 1F	4000 3500	13 11		150 140		-	-	150		-	-	
E	5.5	7	7.2	1G	4000	10		120		_	_	120				
5 mm	5.5	11.5	7.2	1H	2500	1000		120	00	-	-	120	00	-	_	
	6.5	8	7.2	11	2500		00	100		-	-	100		-	-	
	7.2 7.2	8.5 13	7.2 7.2	1J 1K	2500 2000		00	100 95		-	-	100		-	_	
	8.5	10	7.2	1L	2000		00	80			-	80				
	8.5	14	7.2	1M	1500		00	800 600		-	-	800			_	
	11	16	7.2	1N	1000	5	00			-			40			
	2.5	7 8.5	10 10	2A 2B	5000 5000	-	-	250		44 43		250 230		41	- 50	
	4	9	10	2C	4000		_	220 170		32		170			000	
7.5 mm	4.5	9.5	10.3	2D	3500	-	-	150		2900		1400		2700		
	5	10.5	10.3	2E	3000	- - -		130		25		130		-	-	
	5.7 7.2	12.5 12.5	10.3	2F 2G	2000 1500			1000 900		22 18		110			-	
	3	9	13	3A	3000	-			00	22		-		19	200	
	4	9	13	3C	3000	-	-	90		16		-			150	
10	4	9.5	13	3D	3000	-	-	900		1600		-			100	
10 mm	5 6	11 12	13 13	3F 3G	3000 2400	-	-		700 550		1300 1100		-		00	
	6	12.5	13	3H	2400		_	55				_			000	
	8	12	13	31	2000	-	-	400		1100 800		_			'40	
	5	11	18	4B	2400	-	-	600		1200		-			50	
	6 7	12.5 14	18 18	4C 4D	2000 1600	-	-	50 45		10	00 00	_			000 850	
15	8	15	18	4F	1200		_	40			00	_			40	
15 mm	9	14	18	4H	1200	-	-	35	0	7	00	_		6	50	
	9	16	18	4J	900	-		35			00	-			550	
	11 5	14	18 26.5	4M 5A	1000 1200	-		30	10		00 00	_	•	-	70	
	6	15	26.5	5B	1000	-	-	_			00	_			540	
	7	16.5	26.5	5D	760	-	-	_		6	00	-		5	50	
22.5 mm	8.5	18.5	26.5	5F	500	-	-	_			80	-			50	
	10.5 10.5	19 20.5	26.5 26.5	5G 5H	594* 594*	-	-	_			00 00	_			360 360	
	11	20.3	26.5	5I	561*	_	-	_			80	_			350	
	9	19	31.5	6A	567*	-	-	-		460/		-		-	-	
	11	21	31.5	6B	459* 270*	-	-	-		380/		-		-	-	
27.5 mm	13 15	24 26	31.5 31.5	6D 6F	378* 324*			_			00 70					
27.5	17	29	31.5	6G	198*		_	_		_	-	_				
	17	34.5	31.5	61	198*	-	-	-		-	-	_			-	
	20	39.5	31.5	6J	162*	-	-	_		-	-	_	-		_	

Rights reserved to amend design data without prior notification.

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

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



								pcs	per p	acking (unit					
		C.				RC	LL	'		EL			AM	МО		
PCM		Si	ze		bulk				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	
	W	Н	L	Codes	S	N	0	F	- 1	Н	J	Α	С	В	D	
	9	19	41.5	7A	441*	-	_	-	-	-	-		_		-	
	11	22	41.5	7B	357*	_		-	-	-	-		_	-	-	
	13	24	41.5	7C	294*	-		-	-	-	-		-		-	
	15 17	26 29	41.5 41.5	7D 7E	252* 154*	-	-	-	-	-	-		-		-	
37.5 mm**	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	71	84*	-		-		_			_ _		-	
	35	50	41.5	7J	35*	-	-		-		-				-	
	40	55	41.5	7K	28*	-	_					_				
	19	31	56	8D	120*	-	-	-	-	-	-		_		-	
10 F**	23	34	56	8E	80*	-	-	-	-	-	-		_	-	-	
48.5 mm**	27	37.5	56	8H	84* 25*	-	-	-	-	-	-		_	-	-	
	33 37	48 54	56 56	8J 8L	25* 25*	-	-	-	-	-	-		_	-	_	
		-														
	25	45	57	9D	70*	-	-	-	-	-	-		-	-	-	
52.5 mm	30 35	45 50	57 57	9E 9F	60* 25*	-	-	-	-	-	-		-		-	
J2.J11111	35 45	55	57 57	9F 9H	20*	-	_	_	_	-		_		_		
	45	65	57	9J	20*	-	_	-		-	_	_		_		

Updated data on www.wima.com

Rights reserved to amend design data without prior notification.

^{*} 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.

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

				
Type description:	Rated voltage:	Capacitance:	Size:	Tolerance:
SMD-PET SMD-PEN SMD-PEN SMD-PPS SMDI FKP 02 FKP0 MKS 02 FKS 2 FKP 2 FKS 3 FKP 3 FKP 3 FKP 3 FKP 3 FKP 3 FKP 4 FKP 1 FKP 4 FKP 4 FKP 1 FKP 4 FKP 1 FKP 4 FKP 4 FKP 1 FKP 4 FKP 4 FKP 1 FKP 4 FKP 4 FKP 4 FKP 4 FKP 4 FKP 1 FKP 4 FKP 5 FKP 3 FKP	50 VDC = B0 63 VDC = C0 100 VDC = D0 250 VDC = F0 400 VDC = H0 520 VDC = H2 600 VDC = I0 630 VDC = J0 700 VDC = K0 800 VDC = L0 850 VDC = M0 900 VDC = N0 1100 VDC = Q0 1250 VDC = R0 1500 VDC = R0 1500 VDC = T0 1700 VDC = T0 1700 VDC = T0 2500 VDC = V0 3000 VDC = V0 3000 VDC = V0 3000 VDC = V0 2500 VDC = V0 3000 VDC = V0 2500 VDC = V0 3000 VDC = V0 230 VAC = 3Y 275 VAC = 1W 300 VAC = 2W 305 VAC = AW	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	4.8x3.3x3 Size1812 = KA 4.8x3.3x4 Size1812 = KB 5.7x5.1x3.5 Size2220 = QA 5.7x5.1x4.5 Size2220 = QB 7.2x6.1x3 Size2824 = TA 7.2x6.1x5 Size2824 = TB 10.2x7.6x5 Size4030 = VA 12.7x10.2x6 Size5040 = XA 15.3x13.7x7 Size6054 = YA 2.5x7x4.6 PCM2.5 = OB 3x7.5x4.6 PCM2.5 = OC 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 = 3A 4x9x13 PCM10 = 3C 5x11x18 PCM15 = 4B 6x12.5x18 PCM15 = 4C 5x14x26.5 PCM22.5 = 5A 6x15x26.5 PCM22.5 = 5A 6x15x26.5 PCM22.5 = 5B 9x19x31.5 PCM27.5 = 6A 11x21x31.5 PCM27.5 = 6A 11x22x41.5 PCM37.5 = 7A 11x22x41.5 PCM37.5 = 7B 19x31x56 PCM 48.5 = 8D 25x45x57 PCM 52.5 = 9D	#20% = M #10% = K #5% = J #2.5% = H #1% = E #1% = E #1% = E #1% = E #1% = E #1% = E #1% = B #1% = B
	350 VAC = BW 440 VAC = 4W 	1500 μF = 7150 	Version code: Standard = 00 Version A1 = 1A Version A1.1.1 = 1B	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.

= 2A

Version A2

Pin length (taped)