WIMA MKP-X2 R



Metallized Polypropylene (PP) RFI-Capacitors Class X2 with Internal Series Connection PCM 15 mm to 48.5 mm

Special Features

- Reliable self-healing
- Increased corona inception level due to internal series connection
- 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

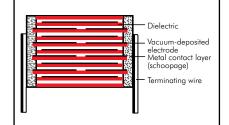
- Capacitors connected to the mains between phase and neutral or phase conductors
- General requirements, pulse peak voltage ≤ 2.5 kV

As capacitor voltage divider in applications requiring a high capacitance stability over time

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:

0.033 µF to 10 µF (E12-values on request) **Rated voltage:**

400 VAC

Continuous DC voltage* (general guide): ≤ 1000 V

Capacitance tolerances: ±20%, ±10% (±5% available subject

to special enquiry)
Operating temperature range:

-55° C to +105° C

Climatic test category: 55/105/56 in accordance with IEC Passive flammability class: B for capacitors with V > 1750 mm³

C for capacitors with V \leq 1750 mm³ Insulation resistance at +20° C:

 $\begin{array}{l} C \leqslant 0.33 \ \mu F: \geqslant 15 \ x10^3 \ M\Omega \\ C > 0.33 \ \mu F: \geqslant 5 \ 000 \ sec \ (M\Omega \ x \ \mu F) \\ Measuring \ voltage: \ 100 \ V/1 \ min. \\ \hline \textbf{Dissipation factors} \ at \ +20^\circ \ C: \ tan \ \delta \end{array}$

at f	C ≤ 0.1 µF	0.1 µF < C ≤ 1.0 µF	C > 1.0 µF
1 kHz 10 kHz 100 kHz	$\leq 4 \times 10^{-4}$ $\leq 6 \times 10^{-4}$ $\leq 25 \times 10^{-4}$	$ \leq 5 \times 10^{-4} $	≤ 10 x 10 ⁻⁴ -

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

* The permissible pulse rise time du/dt (F_{max} .) will be subject to a reduction according to

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

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

Packing

Test specifications:

Test voltage:

Reliability:

In accordance with IEC 60384-14

100 V/µsec for pulses equal to a voltage amplitude with $\sqrt{2} \times 400$ VAC = 565 V

Maximum pulse rise time:

according to IEC 60384-14

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

C > 1.0 µF: 1800 VDC, 2sec.

Operational life > 300,000 hours

Failure rate < 2 fit (0.5 x U_r and 40° C)

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.

WIMA MKP-X2 R

Continuation

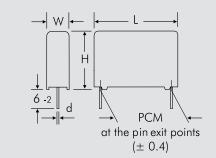
General Data

Carponaitanaa			400 VAC*	ĸ	
Capacitance	W	Н	L	PCM**	Part number
0.033 µF	5	11	18	15	MKXR3VV23304B00
0.047 "	5	11	18	15	MKXR3VV24704B00
0.068 "	6	12.5	18	15	MKXR3VV26804C00
0.1 µF	8	15	18	15	MKXR3VV31004F00
	6	15	26.5	22.5	MKXR3VV31005B00
0.15 "	9	16	18	15	MKXR3VV31504J00
	7	16.5	26.5	22.5	MKXR3W31505D00
0.22 "	8.5	18.5	26.5	22.5	MKXR3VV32205F00
0.33 "	10.5	19	26.5	22.5	MKXR3W33305G00
0.47 "	11	21	26.5	22.5	MKXR3W34705100
0.68 "	13	24	31.5	27.5	MKXR3W36806D00

* f = 50/60 Hz

** PCM = Printed circuit module = pin spacing

 $\mathsf{Dims.}$ in $\mathsf{mm.}$



Part number completion:								
Tolerance:	erance: 20 % = M							
	10 % = K							
	5% = J							
Packing:	bulk = S							
Pin length:	6-2 = SD							
Taped version	on see page 140.							

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 $d = 0.8 \phi$

Continuation page 81

WIMA MKP-X2 R



Continuation

General Data

Capacitance			400 VAC*	د د	
Capacilance	W	Н	L	PCM**	Part number
1.0 µF	15	26	31.5	27.5	MKXR3VV41006F00
1.5 "	17	29	31.5	27.5	MKXR3W41506G00
2.2 "	20	39.5	31.5	27.5	MKXR3VV42206J00
3.3 "	20	39.5	41.5	37.5	MKXR3W43307G00
4.7 "	24	45.5	41.5	37.5	MKXR3W44707H00
6.8 "	31	46	41.5	37.5*	MKXR3W468071
10 µF	33	48	56	48.5**	MKXR3W51008JD4

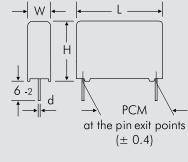
* f = 50/60 Hz

** PCM = Printed circuit module = pin spacing

* Case size 31 x 46 x 41.5 mm is provided in 2-pin or 4-pin version

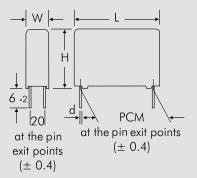
** Case size 33 x 48 x 56 mm is provided in 4-pin version

Dims. in mm.



Part number co	mpletio	n:
Version code*:	2-pin	= 00
	4-pin	= D4
Tolerance:	20 %	=M
	10 %	=K
	5%	= J
Packing:	bulk	= S
Pin length:	6-2	= SD
Taped version se	ee page	140.

 $d = 0.8 \text{ } \text{ } \text{ } \text{if } \text{PCM} = 27.5 \\ d = 1.0 \text{ } \text{ } \text{ } \text{if } \text{PCM} \geq 37.5 \\$



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: soldering:	$\begin{array}{l} T_{max.} \leqslant 125^{\circ}C\\ T_{max.} \leqslant 135^{\circ}C \end{array}$
Polypropylene:	preheating: soldering:	$\begin{array}{l} T_{max.} \leqslant 100^{\circ}\mathrm{C} \\ T_{max.} \leqslant 110^{\circ}\mathrm{C} \end{array}$

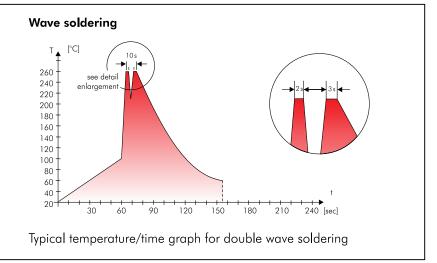
Single wave soldering

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

Double wave soldering

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

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+

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

- PBB/PBDE

- Arsenic

- Mercury

- etc.

- 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 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

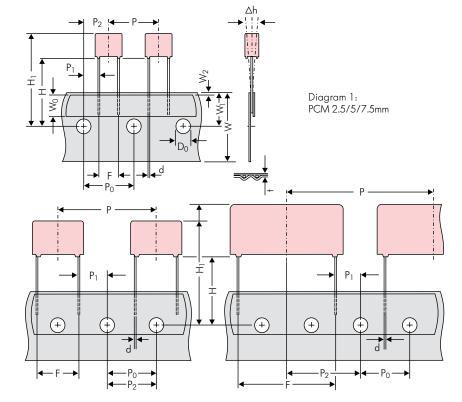


Diagram 2: PCM 10/15 mm

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

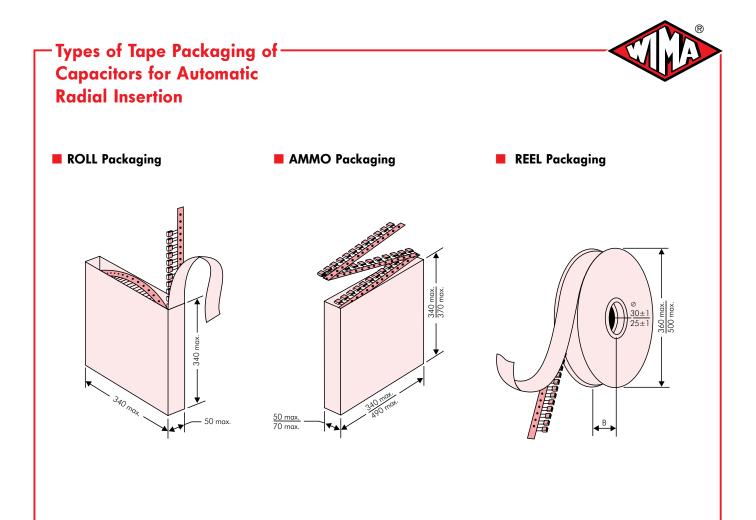
				Dimen	sions for Radial	Taping				
Designation	Symbol	PCM 2.5 taping	PCM 5 taping	PCM 7.5 taping	PCM 10 taping*	PCM 15 taping*	PCM 22.5 taping	PCM 27.5 taping		
Carrier tape width	W	18.0 ±0.5	18.0 ±0.5	18.0 ±0.5	18.0 ±0.5	18.0 ±0.5	18.0 ±0.5	18.0 ±0.5		
Hold-down tape width	W ₀	6.0 for hot-sealing adhesive 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	Po	cumulative pitch 12.7 ±0.3 error max. 1.0 mm/20 pitch	cumulative pitch 12.7 ±0.3 error max. 1.0 mm/20 pitch	cumulative 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	18.5 ±0.5		
Feed hole centre to top edge of the component	H	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	$^{\circ}0.5 \pm 0.05 \text{ or } 0.6 + 0.06 \\ -0.05$	$^{\circ}0.5 \pm 0.05 \text{ or } 0.6 + 0.06 \\ -0.05 $	0.8 +0,08	0.8 +0,08	0.8 +0.08		
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/AWMO				AMMO		•		
Package (see also page 149)		REEL Ø 360 max. Ø 30 ±1	$\left. \begin{array}{c} 52 \pm 2 \\ 58 \pm 2 \end{array} \right\} \begin{array}{c} \text{depending on} \\ \text{comp. dimensions} \end{array} \right.$	REEL						
Unit					see details page 150.					

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). $P_0 = 12.7$ or 15.0 is possible

Please clarify customer-specific deviations with the manufacturer.



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
- dimensionscapacitance tolerance
- packing

as well as gross weight and customer's name are indicated in plain text.



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

							pcs. per p	acking unit		
2014		Si	ze			ROLL		EL		MO
PCM					bulk		Ø 360 H16.5 H18.5	Ø 500	340 × 340	490 × 370
	W	Н		Codes	S	N 0	F	H J	A C	B D
	2.5	7	4.6	OB	5000	2200	2500		2800	
	3	7.5	4.6	0C	5000	2000	2300	-	2300	-
2.5 mm	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	-
	2.5	6.5	7.2	1A	5000	2200	2500	-	2800	-
	3	7.5	7.2	1B	5000	2000	2300	-	2300	-
	3.5 4.5	8.5 6	7.2 7.2	1C 1D	5000 6000	1600 1300	2000 1500	-	2000 1500	-
	4.5	9.5	7.2	16	4000	1300	1500	_	1500	_
	5	10	7.2	1F	3500	1100	1400	_	1400	_
5 mm	5.5	7	7.2	1G	4000	1000	1200	-	1200	_
5	5.5	11.5	7.2	1H	2500	1000	1200	-	1200	-
	6.5	8	7.2	11	2500	800	1000	-	1000	-
	7.2 7.2	8.5	7.2 7.2	1J 1K	2500 2000	700 700	1000 950	-	1000 1000	-
	7.2 8.5	13 10	7.2	11	2000	600	800	_	800	_
	8.5	14	7.2	1M	1500	600	800	_	800	_
	11	16	7.2	1N	1000	500	600	-	400	-
	2.5	7	10	2A	5000	_	2500	4400	2500	-
	3	8.5	10	2B	5000	-	2200	4300	2300	4150
7 -	4	9	10	2C	4000	-	1700	3200	1700	3100
7.5 mm	4.5	9.5	10.3	2D	3500	-	1500	2900	1400	2800
	5	10.5	10.3	2E 2F	3000	-	1300	2500	1300	-
	5.7 7.2	12.5 12.5	10.3 10.3	2F 2G	2000 1500	_	1000 900	2200 1800	1100 1000	_
	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
10	4	9.5	13	3D	3000	-	900	1600	-	1400
10 mm	5	10	13.5	FB	2000	-	700	1300	-	1200
	5 6	11 12	13 13	3F 3G	3000 2400	-	700 550	1300 1100	-	1200 1000
	6	12	13	30 3H	2400	_	550	1100	_	1000
	8	12.5	13	31	2000	_	400	800	_	740
	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
15 mm	7	15	19	FE	1000	-	450	900	-	850
	8 8	15	18 19	4F FF	1200 500	_	400	800 800	_	740 740
	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
	5	14	26.5	5A	1200	-	-	800	-	770
	6	15	26.5	5B	1000	-	-	700	-	640
	7	16.5 20	26.5 28	5D FH	760 500	-	-	600 500	-	550 480
00 5	8.5	18.5	28 26.5	5F	500		_	480	-	480 450
22.5 mm	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	51	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.

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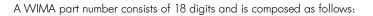
Packing Quantities for Capacitors with Radial Pins in PCM 27.5 mm to 52.5 mm

								pcs	. per p	acking u	unit				
		Siz	70			RO	OLL		RE	EL			AM	MO	
РСМ 27.5 mm 37.5 mm 48.5 mm 52.5 mm		JI.	20		bulk			ø3		Ø 5			× 340		× 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	I	н	J	Α	С	В	D
	9	19	31.5	6A	640*	-	-	-		460/	340*		_	4	120
	11	21	31.5	6B	544*	-	-	-		380/			-		350
	13	24	31.5	6D		-	-	-		3	00		-	2	290
	13	25	33	FK	H16.5 H18.4 S N O 640* - 544* - 448* - 336* - 384* - 288* - 176* - 216* - 144* - 480* - 216* - 126* - 132* - 108* - 108* - 100* - 72* - 35* - 28* -		-	-		-	-		-		-
27.5 mm	15	26	31.5	6F		-	-	-		2	70		-	2	250
	15	26	33	FL		-	-	-		-	-		-		-
	17	29	31.5	6G		-	-	-		-	-		-	-	-
	17 20	34.5 32	31.5 33	6l FM		-	-	-		-	-		-		-
	20	32 39.5	33 31.5	6J		- 16* –		-		-			- -		
	9	19	41.5	7A									_		
	11	22	41.5	7B			_	_			_		_		
	13	24	41.5	7C		_	_	_		_			_	_	
	15	26	41.5	7D		_	-	_		-	-		_		_
	17	29	41.5	7E		-	-	-		-	-		_		-
37 5 mm	19	32	41.5	7F		-	-	-		-	-		-		-
07.5 IIIII	20	39.5	41.5	7G		-	-	-		-	-		-		-
	24	45.5	41.5	7H		-	-	-		-		-			-
	27	15	41.5	7M											
	31 35	46 50	41.5 41.5	71 7J		-	-	-		-	-		-		-
	40	55	41.5	75 7K		-	-	-		-	-		_		_
	19	31	56	8D	50*								_		_
	23	34	56	8E	72*	-	_	_		-	_		_		_
48.5 mm	27	37.5	56	8H	60*	-	-	_		-	-		_		_
	33	48	56	8J	48*	-	-	-		-	-		-		-
	37	54	56	8L	25*		-			-	-		_	-	_
50 F	35	50	57	9F	25*	-	-	_		-	-		_		-
52.5 mm	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



- 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 |
|--|--|---
--
--
--
---|--|---
--
---|----|---|---|--|--|----|---
--|--|-------------------------|
| м | К | S | 2

 | с
 | 0 | 2 | 1
 | 0 | 0 | 1 | A | 0
 | 0 | м | S | S | D |
| | MKS | 52 |

 | 63 V
 | /DC | | 0.0
 | μF | | 2.5×6 | .5×7.2 | -
 | - | 20% | bulk | 6 | -2 |
| SMD-P
SMD-P
SMD-P
FKP 02
MKS 0
FKS 2
FKP 2
MKS 2
FKP 3
MKS 4
MKP 4
MKP 4
FKP 1
MKP-X
MKP-X
MKP-X
MKP-X
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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.