# WIMA FKS 3



#### Polyester (PET) Film and Foil Capacitors for Pulse Applications PCM 7.5 mm to 15 mm

#### **Special Features**

- Pulse duty construction
- According to RoHS 2011/65/EU

#### **Typical Applications**

#### For general DC-applications e.g.

- Coupling
- Decoupling

#### Construction

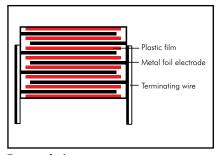
#### Dielectric:

Polyethylene-terephthalate (PET) film

#### Capacitor electrodes:

Metal foil

#### 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. Epoxy resin seal: Yellow.

#### **Electrical Data**

#### Capacitance range:

1000 pF to 0.22  $\mu$ F (E12-values on request)

#### Rated voltages:

100 VDC, 250 VDC

#### Capacitance tolerances:

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

#### Operating temperature range:

-55° C to +100° C

#### Test specifications:

In accordance with IEC 60384-11

#### Climatic test category:

55/100/56 in accordance with IEC

Insulation resistance at +20° C:

 $\geq 3 \times 10^4 M\Omega$ 

(mean value: 5 x 10<sup>5</sup> MΩ) Measuring voltage: 100 V/1 min.

Test voltage: 2 U<sub>r</sub>, 2 sec.

#### Maximum pulse rise time:

1000 V/ $\mu$ sec for pulses equal to the rated voltage

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

at f	C≤0.01 <b>µ</b> F	0.01 μF <c≤0.22 th="" μf<=""></c≤0.22>
1 kHz	≤ 8x 10 <sup>-3</sup>	≤ 8x10 <sup>-3</sup>
	$\leq 15 \times 10^{-3}$ $\leq 20 \times 10^{-3}$	

#### 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  $> 300\,000$  hours Failure rate < 5 fit (0.5 x  $U_r$  and 40° C)

#### **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/sec<sup>2</sup> 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 FKS 3



#### Continuation

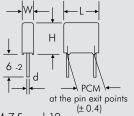
#### **General Data**

Canacitance			10	00 VDC.	/63 VAC*	250 VDC/160 VAC*						
Capacitance	W	H	L	PCM**	Part number	W	Н	L	PCM**	Part number		
1000 pF	3	8.5	10	7.5	FKS3D011002B00	3	8.5	10	7.5	FKS3F011002B00		
1500 "	3	8.5	10	7.5	FKS3D011502B00	3	8.5	10	7.5	FKS3F011502B00		
2200 "	3	8.5	10	7.5	FKS3D012202B00	3	8.5	10	7.5	FKS3F012202B00		
3300 "	3	8.5	10	7.5	FKS3D013302B00	3	8.5	10	7.5	FKS3F013302B00		
4700 "	3	8.5	10	7.5	FKS3D014702B00	3	8.5	10	7.5	FKS3F014702B00		
6800 "	3	8.5	10	7.5	FKS3D016802B00	3	8.5	10	7.5	FKS3F016802B00		
0.01 <b>µ</b> F	3	8.5	10	7.5	FKS3D021002B00	3	9	13	10	FKS3F021003A00		
0.015 "	3	8.5	10	7.5	FKS3D021502B00	4	9.5	13	10	FKS3F021503D00		
	3	9	13	10	FKS3D021503A00							
0.022 "	3	8.5	10	7.5	FKS3D022202B00	5	11	13	10	FKS3F022203F00		
	3	9	13	10	FKS3D022203A00							
0.033 "	4	9.5	13	10	FKS3D023303D00	6	12	13	10	FKS3F023303G00		
0.047 "	4	9.5	13	10	FKS3D024703D00	6	12.5	18	15	FKS3F024704C00		
0.068 "	5	11	13	10	FKS3D026803F00	7	14	18	15	FKS3F026804D00		
0.1 <b>µ</b> F	6	12	13	10	FKS3D031003G00	8	15	18	15	FKS3F031004F00		
0.15 "	7	14	18	15	FKS3D031504D00	9	16	18	15	FKS3F031504J00		
0.22 ",	8	15	18	15	FKS3D032204F00							

<sup>\*</sup> AC voltage: f = 50 Hz; 1.4 x  $U_{rms}$  + UDC  $\leq U_{r}$ 

Dims. in mm.

The values of the WIMA FKM 3 range according to the main catalogue 2009 are still available on request.



d = 0.5 Ø if W = 3  $d = 0.6 \text{ Ø if W} \ge 4$  PCM 7.5 and 10 d = 0.8 Ø if PCM = 15 Part number completion:

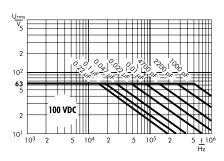
Tolerance: 20 % = M 10 % = K5 % = J

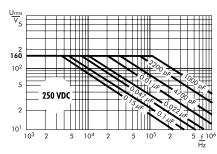
Packing: bulk = SPin length: 6-2 = SD

Taped version see page 140.

Rights reserved to amend design data without prior notification.

Permissible AC voltage in relation to frequency at 10° C internal temperature rise (general guide).





<sup>\*\*</sup> 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:  $T_{max.} \le 110^{\circ} \text{ C}$ 

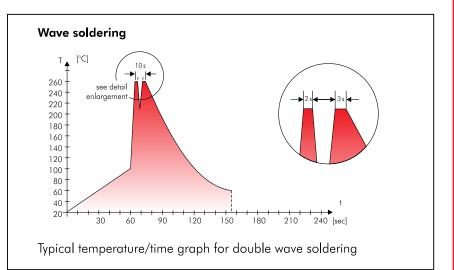
#### Single wave soldering

Soldering bath temperature: T < 260 ° 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 9001:2008 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

- PBB/PBDE

- PCB

- Arsenic

- CFC

– Cadmium

- Hydrocarbon chloride

- Mercury

- Chromium 6+

oto

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:

- 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



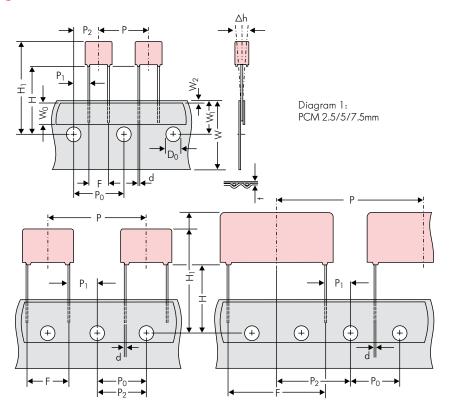


Diagram 2: PCM 10/15 mm

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

		Dimensions 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 <sub>0</sub>	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 <sub>1</sub>	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 <sub>2</sub>	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 <sub>0</sub>	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 <sub>0</sub>	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	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 pi error max. 1.0 mm/20 pi				
Feed hole centre to pin	ole centre P <sub>1</sub> 5.1 ±0.5 3.85		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 <sub>2</sub> 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 <sub>1</sub>	H+H <sub>component</sub> < H <sub>1</sub> 32.25 max.	$H+H_{component} < H_1$ 32.25 max.	H+H <sub>component</sub> < H <sub>1</sub> 24.5 to 31.5	H+H <sub>component</sub> < H <sub>1</sub> 25.0 to 31.5	H+H <sub>component</sub> < H <sub>1</sub> 26.0 to 37.0	H+H <sub>component</sub> < H <sub>1</sub> 30.0 to 43.0	H+H <sub>component</sub> < H <sub>1</sub> 35.0 to 45.0				
Pin spacing at upper edge of carrier tape	F	2.5 ±0.5	5.0 <sup>+0.8</sup> <sub>-0.2</sub>	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	0.8 +0,08	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	0.7 ±0.2	0.7 ±0.2	0.7 ±0.2	0.7 ±0.2	0.7 ±0.2	0.7 ±0.2	0.7 ±0.2				
		ROLL//	AMMO	AMMO								
Package (see also page 141)		REEL \$\tilde{g}\$ 360 max.	$B \stackrel{52 \pm 2}{58 \pm 2} $ depending on comp. dimensions	REEL $^{\emptyset}$ 360 max. $^{52}$ ±2 s REEL $^{\emptyset}$ 500 max. $^{54}$ ±2 depending $^{6}$ 500 max. $^{54}$ ±2 depending $^{60}$ 0 m OVM and $^{60}$ 500 max. $^{60}$ ±2 s ±1 $^{60}$ ±2 depending $^{60}$ 500 max.								
Unit					see details page 142.							

Dims in mm.

Please clarify customer-specific deviations with the manufacturer.

Diameter of pins see General Data.

<sup>\*</sup> 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

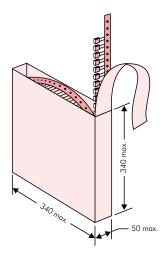
# Types of Tape Packaging of Capacitors for Automatic Radial Insertion

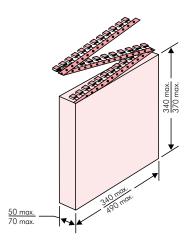


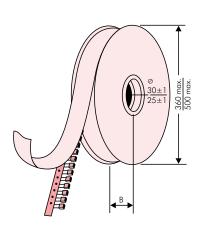
#### **■ ROLL Packaging**

## AMMO Packaging

#### ■ REEL Packaging







## BAR CODE (Labelling)

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

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



							pcs. per packing unit  ROLL REEL AMMO						
PCM		Si	ze		bulk	ROLL	Ø 360	<b>EL</b> Ø 500	340 × 340	MO 490 × 370			
	W	Н		Codes	S	H16.5 H18.5	H16.5 H18.5		H16.5 H18.5				
	2.5	7	4.6	OB	5000	2200	2500	<u>п</u> , <b>ј</b>	2800	- B			
0.5	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 5.5	9	4.6 4.6	OE OF	5000 5000	1200 900	1500 1200	_ _	1500 1200	_			
	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 5	9.5 10	7.2 7.2	1E 1F	4000 3500	1300 1100	1500 1400	-	1500 1400	-			
<b>F</b>	5.5	7	7.2	1G	4000	1000	1200	_ _	1200	_			
5 mm	5.5	11.5	7.2	1H	2500	1000	1200	-	1200	_			
	6.5	8	7.2	11	2500	800	1000	-	1000	-			
	7.2	8.5	7.2	1J	2500	700	1000	-	1000	-			
	7.2 8.5	13 10	7.2 7.2	1K 1L	2000 2000	700 600	950 800	_	1000 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			
7.5 mm	4 4.5	9	10	2C	4000	_	1700	3200	1700	3100			
7.5 mm	4.5 5	9.5 10.5	10.3 10.3	2D 2E	3500 3000	_	1500 1300	2900 2500	1400 1300	2800			
	5.7	12.5	10.3	2F	2000	_	1000	2200	1100	_			
	7.2	12.5	10.3	2G	1500	_	900	1800	1000	-			
	3	9	13	3A	3000	-	1100	2200	-	1900			
	4	8.5	13.5	FA	3000	-	900	1600	-	1450			
	4	9 9.5	13 13	3C 3D	3000 3000	_	900 900	1600 1600	_	1450 1400			
10 mm	5	10	13.5	FB	2000	-	700	1300	-	1200			
	5	11	13	3F	3000	-	700	1300	-	1200			
	6	12	13	3G	2400	-	550	1100	-	1000			
	6 8	12.5 12	13 13	3H 3I	2400 2000	- -	550 400	1100 800	_ _	1000 <i>7</i> 40			
	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 15	18 19	4D FE	1600 1000	_	450 450	900 900	_	850 850			
15 mm	8	15	18	4F	1200	_	400	800	_	740			
	8	17	19	FF	500	-	400	800	-	740			
	9	14	18	4H	1200	-	350	700	-	650			
	9	16 18	18 19	4J FG	900 500	_	350 300	700 650	-	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	26.5	5D	760	-	-	600	-	550			
	8	20	28	FH	500	-	-	- 500		480			
22.5 mm	8.5 10	18.5 22	26.5 28	5F FI	500 540*	_	_	480 420	_	450 380			
	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			

<sup>\*</sup> 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.

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



					pcs. per packing unit											
		٥.				DLL			EL		AMMO					
PCM		Si	ze		bulk			ø3	360	Ø S	500	340	× 340	490 >	× 370	
						H16.5	H18.5									
	W	Н	L	Codes	S	N	0	F	_	Н	J	Α	С	В	D	
	9	19	31.5	6A	640*		_	_	-	460/	340*		_	4	20	
	11	21	31.5	6B	544*		-	-	-	380/	280*		-	350		
	13	24	31.5	6D	448*	-	_	-	-	3	800		_	2	90	
	13	25	33	FK	336*	-	_	-	-		-		-	-	-	
27.5 mm	15	26	31.5	6F	384*	-	-	-	-	2	270		-	2	50	
	15	26	33	FL	288*	-	-	-	-	-	-		-	-	-	
	17 17	29 34.5	31.5 31.5	6G 6I	176* 176*	-		-	-	-	_		-	-		
	20	34.5	33	FM	216*	-		-		-	_	_		_		
	20	39.5	31.5	6J	144*	_		_			_	_		_		
	9	19	41.5	7A	480*	_		_		_		_		_		
	11	22	41.5	7B	408*	_		_		_		_		_		
	13	24	41.5	7C	252*		_	_	_		_		_		_	
	15	26	41.5	7D	144*	-		-	-	-		-		-		
	17	29	41.5	7E	132*	-	_	-	-	-	_		-	-	-	
37.5 mm	19	32	41.5	7F	108*	-		-	-	-	-	-		-	-	
07.0	20	39.5	41.5	7G	108*	-		-	-	-	-		-	-	-	
	24 27	45.5 15	41.5 41.5	7H 7M	84* 100*	-		-	-	-	_		_	_		
	31	46	41.5	7M 7I	72*	_				_		_		_		
	35	50	41.5	7j	35*	_		_		_		_		_		
	40	55	41.5	7K	28*	_		-		_		_		-		
	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*		-		-	-		-		-		
52 5 mms	35	50	57	9F	25*		_	-	-		-		-	-	-	
52.5 mm	45 45	55 65	57 57	9H 9J	20* 20*		_	-	-	-	_		_	-	-	

<sup>\*</sup> for 2-inch transport pitches.

<sup>\*</sup> 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**



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

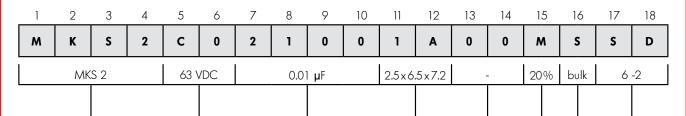
Field 11 - 12: Size and PCM

Field 13 - 14: Version code (e.g. Snubber versions)

Field 15: Capacitance tolerance

Field 16: Packing

Field 17 - 18: Pin length (untaped)



					1	
Type description	:	Rated voltage:	Capacitance:	Size:	Tolerance:	
SMD-PET =	= SMDT	50  VDC = B0	22 pF = 0022	4.8 x 3.3 x 3 Size 1812 = KA	$\pm 20\% = M$	
SMD-PEN =	= SMDN	63  VDC = C0	47  pF = 0047	4.8 x 3.3 x 4 Size 1812 = KB	$\pm 10\% = K$	
SMD-PPS =	= SMDI	100  VDC = D0	100  pF = 0100	$5.7 \times 5.1 \times 3.5$ Size $2220 = QA$	$\pm 5\% = J$	
FKP 02 =	= FKPO	250  VDC = F0	150  pF = 0150	$5.7 \times 5.1 \times 4.5$ Size $2220 = QB$	$\pm 2.5\% = H$	
MKS 02 =	= MKS0	400  VDC = G0	220  pF = 0220	7.2 x 6.1 x 3 Size 2824 = TA	±1% = E	
FKS 2 =	= FKS2	450  VDC = H0	330  pF = 0330	7.2 x 6.1 x 5 Size 2824 = TB		
FKP 2 =	= FKP2	600  VDC = 10	470  pF = 0470	$10.2 \times 7.6 \times 5$ Size $4030 = VA$		
MKS 2 =	= MKS2	630 VDC $= J0$	680  pF = 0680	12.7 x 10.2 x 6 Size 5040 = XA		
MKP 2 =	= MKP2	700  VDC = K0	1000  pF = 1100	15.3 x 13.7 x 7 Size 6054 = YA	Packing:	
FKS 3 =	= FKS3	800  VDC = 10	1500  pF = 1150	$2.5 \times 7 \times 4.6 \text{ PCM } 2.5 = 0B$	AMMO H16.5 34	$0 \times 340 = A$
FKP 3 =	= FKP3	850  VDC = M0	2200  pF = 1220	$3 \times 7.5 \times 4.6 \text{ PCM } 2.5 = 0 \text{C}$	AMMO H16.5 49	$0 \times 370 = B$
MKS 4 =	= MKS4	900  VDC = N0	3300  pF = 1330	$2.5 \times 6.5 \times 7.2 \text{ PCM} 5 = 1 \text{A}$	AMMO H18.5 34	$0 \times 340 = C$
MKP 4 =	= MKP4	1000  VDC = O1	4700  pF = 1470	$3 \times 7.5 \times 7.2 \text{ PCM} 5 = 1B$	AMMO H18.5 49	$0 \times 370 = D$
MKP 10 =	= MKP1	1100  VDC = P0	6800  pF = 1680	$2.5 \times 7 \times 10 \text{ PCM } 7.5 = 2A$	REEL H16.5 360	= F
	= FKP4	1200  VDC = Q0	$0.01  \mu F = 2100$	$3 \times 8.5 \times 10 \text{ PCM } 7.5 = 2B$	REEL H16.5 500	=H
	= FKP1	1250  VDC = R0	$0.022  \mu F = 2220$	$3 \times 9 \times 13 \text{ PCM } 10 = 3A$	REEL H18.5 360	=
	= MKX2	1500  VDC = S0	$0.047  \mu F = 2470$	$4 \times 9 \times 13 \text{ PCM } 10 = 3C$	REEL H18.5 500	=J
	= MKXR	1600  VDC = T0	$0.1  \mu F = 3100$	$5 \times 11 \times 18 \text{ PCM } 15 = 4B$	ROLL H16.5	=N
	= MKX1	2000  VDC = U0	$0.22  \mu F = 3220$	$6 \times 12.5 \times 18 \text{ PCM } 15 = 4 \text{C}$	ROLL H18.5	$=$ $\bigcirc$
	= MKY2	2500  VDC = V0	$0.47  \mu F = 3470$	$5 \times 14 \times 26.5 \text{ PCM } 22.5 = 5A$	BLISTER W12 180	
	= MPX2	3000  VDC = W0	$1 \mu F = 4100$	$6 \times 15 \times 26.5 \text{ PCM } 22.5 = 5B$	BLISTER W12 330	
	= MPX1	4000  VDC = X0	$2.2  \mu F = 4220$	$9 \times 19 \times 31.5 \text{ PCM } 27.5 = 6A$	BLISTER W16 330	
	= MPY2	6000  VDC = Y0	$4.7  \mu F = 4470$	$11 \times 21 \times 31.5 \text{ PCM } 27.5 = 6B$	BLISTER W24 330	
	= MPRY	250  VAC = 0 VV	$10  \mu F = 5100$	$9 \times 19 \times 41.5 \text{ PCM} 37.5 = 7A$	Bulk/TPS Standar	rd = S
	= SNMP	275  VAC = 1 W	$22 \mu F = 5220$	$11 \times 22 \times 41.5 \text{ PCM} 37.5 = 7B$		
	= SNFP	300  VAC = 2VV	$47  \mu F = 5470$	$19 \times 31 \times 56$ PCM $48.5 = 8D$		
		305  VAC = AVV	$100  \mu F = 6100$	$35 \times 50 \times 57 \text{ PCM } 52.5 = 9F$		
DC-LINK MKP 3 =		400  VAC = 3W	$220  \mu F = 6220$	l		
DC-LINK MKP 4 =		440  VAC = 4VV	$1000  \mu F = 7100$			
DC-LINKMKP4S =		500  VAC = 5W	$1500  \mu F = 7150$	Version code:		
DC-LINK MKP 5 =			•••		Pin length (unta	ned)
DC-LINK MKP 6 =				Standard = 00 Version A1 = 1A	$3.5 \pm 0.5 = C9$	peuj
	= DCHC = DCHY			Version A1 = 1A Version A1.1.1 = 1B	$3.5 \pm 0.5 = C9$ 6 -2 = SD	
DC-LINK III =	- DCHI			1		
ı			I	Version A2 $= 2A$	$16 \pm 1 = P1$	

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.

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