WIMA FKP 02



Polypropylene (PP) Film and Foil **Capacitors for Pulse Applications** in PCM 2.5 mm

Special Features

- Pulse duty construction
- PCM 2.5 mm
- Close tolerances up to ±2.5%
- Very low dissipation factor
- Negative capacitance change versus temperature
- Very low dielectric absorption
- According to RoHS 2011/65/EU

Typical Applications

For high frequency applications e.g.

- Sample and hold
- Timing
- LC-Filtering
- Oscillating circuits
- Audio equipment

Construction

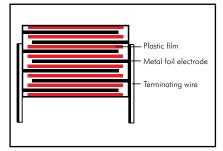
Dielectric:

Polypropylene (PP) 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:

100 pF to 0.01 μ F (E12-values on request)

Rated voltages:

63 VDC, 100 VDC, 250 VDC, 400 VDC

Capacitance tolerances:

±20%, ±10%, ±5%, ±2.5%

Operating temperature range:

-55° C to +100° C

Test specifications:

In accordance with IEC 60384-13

Climatic test category:

55/100/21 in accordance with IEC

Insulation resistance at +20° C:

 $\geq 5 \times 10^5 M\Omega$

(mean value: $1 \times 10^6 M\Omega$)

Measuring voltage:

 U_r = 63 V: U_{test} = 50 V/1 min. U_r > 100 V: U_{test} = 100 V/1 min. **Test voltage:** 2 U_r , 2 sec.

Maximum pulse rise time:

1000 V/µsec for pulses equal to the rated voltage

Dielectric absorption:

Temperature coefficient:

 -200×10^{-6} /° C (typical)

Dissipation factors at +20° C: tan δ

at f	C ≤ 0.01 µF
1 kHz	≤ 4 x 10 ⁻⁴
10 kHz	≤ 4 x 10 ⁻⁴
100 kHz	≤ 6 x 10 ⁻⁴

Voltage derating:

A voltage derating factor of 1.35 % 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^2 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 FKP 02



Continuation

General Data

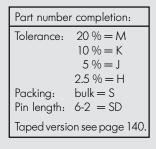
Capacitance	63 VDC/40 VAC*						100 VDC/63 VAC*						
	W	Н	L	PCM**	Part number	W	Н	L	PCM**	Part number			
100 pF	2.5	7	4.6	2.5	FKP0C001000B00	2.5	7	4.6	2.5	FKP0D001000B00			
150 "	2.5	7	4.6	2.5	FKP0C001500B00	2.5	7	4.6	2.5	FKP0D001500B00			
220 "	2.5	7	4.6	2.5	FKP0C002200B00	2.5	7	4.6	2.5	FKP0D002200B00			
330 "	2.5	7	4.6	2.5	FKP0C003300B00	2.5	7	4.6	2.5	FKP0D003300B00			
470 "	2.5	7	4.6	2.5	FKP0C004700B00	2.5	7	4.6	2.5	FKP0D004700B00			
680 "	2.5	7	4.6	2.5	FKP0C006800B00	2.5	7	4.6	2.5	FKP0D006800B00			
1000 pF	2.5	7	4.6	2.5	FKP0C011000B00	2.5	7	4.6	2.5	FKP0D011000B00			
1500 "	2.5	7	4.6	2.5	FKP0C011500B00	2.5	7	4.6	2.5	FKP0D011500B00			
2200 "	3	7.5	4.6	2.5	FKP0C012200C00	3	7.5	4.6	2.5	FKP0D012200C00			
3300 "	3.8	8.5	4.6	2.5	FKP0C013300D00	3.8	8.5	4.6	2.5	FKP0D013300D00			
4700 "	4.6	9	4.6	2.5	FKP0C014700E00	4.6	9	4.6	2.5	FKP0D014700E00			
6800 "	4.6	9	4.6	2.5	FKP0C016800E00	4.6	9	4.6	2.5	FKP0D016800E00			
0.01 µ F	5.5	10	4.6	2.5	FKP0C021000F00	5.5	10	4.6	2.5	FKP0D021000F00			

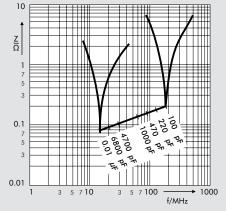
Capacitance			25	0 VDC/	160 VAC*	400 VDC/200 VAC*							
Capacilarico	W	Н	L	PCM**	Part number	W	Н	L	PCM**	Part number			
100 pF	2.5	7	4.6	2.5	FKP0F001000B00	2.5	7	4.6	2.5	FKP0G001000B00			
150 "	2.5	7	4.6	2.5	FKP0F001500B00	2.5	7	4.6	2.5	FKP0G001500B00			
220 "	2.5	7	4.6	2.5	FKP0F002200B00	2.5	7	4.6	2.5	FKP0G002200B00			
330 "	2.5	7	4.6	2.5	FKP0F003300B00	2.5	7	4.6	2.5	FKP0G003300B00			
470 "	2.5	7	4.6	2.5	FKP0F004700B00	2.5	7	4.6	2.5	FKP0G004700B00			
680 "	2.5	7	4.6	2.5	FKP0F006800B00	3	7.5	4.6	2.5	FKP0G006800C00			
1000 pF	2.5	7	4.6	2.5	FKP0F011000B00	3.8	8.5	4.6	2.5	FKP0G011000D00			
1500 "	3	7.5	4.6	2.5	FKP0F011500C00	4.6	9	4.6	2.5	FKP0G011500E00			
2200 "	3.8	8.5	4.6	2.5	FKP0F012200D00	4.6	9	4.6	2.5	FKP0G012200E00			
3300 "	4.6	9	4.6	2.5	FKP0F013300E00	5.5	10	4.6	2.5	FKP0G013300F00			
4700 "	5.5	10	4.6	2.5	FKP0F014700F00								

^{*} AC voltage: f \leq 400 Hz; 1.4 x U $_{rms}$ + UDC \leq U $_{r}$

Dims. in mm.

$$d = 0.4 \ \emptyset$$





Impedance change with frequency (general guide).

Rights reserved to amend design data without prior notification.

The values of the WIMA FKS 02 and WIMA FKM 02 ranges according to the main catalogue 2009 are still available on request.

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

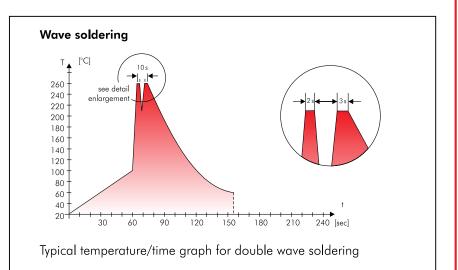
Single wave soldering

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+

– 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:

- 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



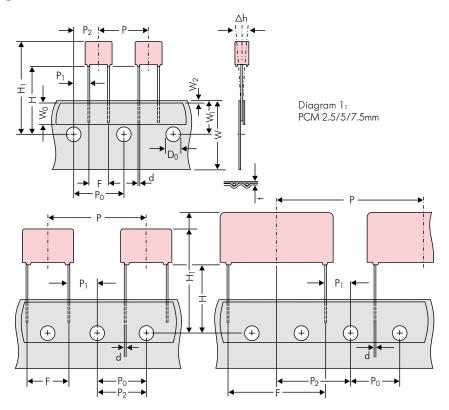


Diagram 2: PCM 10/15 mm

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 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	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	P ₁	5.1 ±0.5	±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 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	*0.5 ±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				
D 1		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 # 360 max.								
Unit			see details page 142.									

Dims in mm.

Please clarify customer-specific deviations with the manufacturer.

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

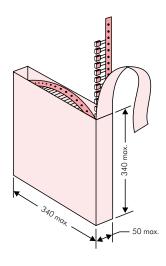
Types of Tape Packaging of Capacitors for Automatic Radial Insertion

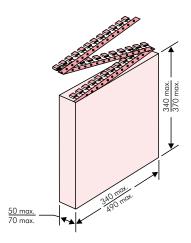


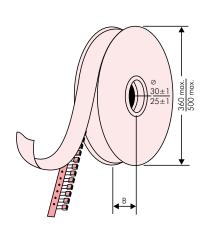
■ ROLL Packaging

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																
		Si	ze			RO	LL	REEL AMMO													
PCM		01.	20		bulk	 ⊔165	⊔10.5	Ø 30 □14 5 l		Ø 5 ⊔16 5		340 × 3 H16.5		490 x							
	W	Н	L	Codes	S	N	O	F	<u> </u>	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	0D 0E	5000 5000	15 12		180 150		-			1800								
	5.5	10	4.6	0F	5000		00	120		_	-		1500 1200								
	2.5	6.5	7.2	1A	5000	22		2500		_		280		_							
	3	7.5	7.2	1B	5000	20	00	230	00	-		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	10		120	00	-		120		_							
3 mm	5.5	11.5	7.2	1H	2500	10		120		-		120		_							
	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 00	100 95		_	•	100		_							
	8.5	10	7.2	11.	2000		00	80		_		80		_							
	8.5	14	7.2	1M	1500	600		80		-	-	80		_							
	11	16	7.2	1N	1000	5	00	60		-	-	40	0	_							
	2.5	7	10	2A	5000	-	-	250		44		250		_							
	3 4	8.5 9	10 10	2B 2C	5000 4000	-	-	220		43		230		415							
7.5 mm	4.5	9.5	10.3	2C 2D	3500	_		1 <i>7</i> 00 1500		3200 2900		1700 1400		3100 2800							
7.5	5	10.5	10.3	2E	3000	-	-	130		25		130		_							
	5.7	12.5	10.3	2F	2000	-		100	00	22		1100		_							
	7.2	12.5	10.3	2G	1500			900		1800		1000		-							
	3	9	13	3A	3000	-	-	110		22		_		190 145							
	4	8.5 9	13.5 13	FA 3C	3000 3000	_		900 900		1600 1600		_			50						
	4	9.5	13	3D	3000	-	_		900		1600			140							
10 mm	5	10	13.5	FB	2000	-	-	700		1300		-		120							
	5	11	13	3F 3G	3000	-		700		1300 1100		_		1200							
	6	12 12.5	13 13	3G 3H	2400 2400	-			550 550		1100			1000 1000							
	8	12.5	13	31	2000	_		400				800		_			40				
	5	11	18	4B	2400	_	_			600		600		600		1200		_		11.5	50
	5	13	19	FC	1000	-	-	60	00	12	00	-		120	00						
	6	12.5	18	4C	2000	-	-	50		10		-		100							
	6 7	14 14	19 18	FD 4D	1000 1600	-		50 45		10	00 00	_		100	50						
	7	15	19	FE	1000	-	-	45			00	_			50						
15 mm	8	15	18	4F	1200	-	-	40			00	_			40						
	8	17	19	FF	500	-	-	40	00	8	00	-			40						
	9	14	18	4H	1200	-	-	35			00	_			50						
	9	16 18	18 19	4J FG	900 500	_	- -	35 30			00 50	_			50 90						
	11	14	18	4M	1000	_	-	30			00	_			40						
	5	14	26.5	5A	1200	_	-	_			00	_			70						
	6	15	26.5	5B	1000	-	-	-		700		-		64	40						
	7	16.5	26.5	5D	760 500	-	-	-			00	_			50						
00.5	8 8.5	20 18.5	28 26.5	FH 5F	500 500	-	-	_ _	- 500		_			30 50							
22.5 mm	10	22	28	FI	540*		_	_		480 420		_		450 380							
	10.5	19	26.5	5G	680*	-	-	_		4	00	-		36	50						
	10.5	20.5	26.5	5H	680*	-	-	-		4	00	_		360							
	11	21	26.5	51	680*	-	-	-		380 350		-		350							
	12	24	28	FJ	450*			_		3.	DU			3	10						

^{*} 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



								рс	s. per p	acking u	unit				
						RC	ROLL RE						AMMO		
PCM		51:	ze		bulk				ø 360		ø 500		× 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			ı	Н	J	Α	С	В	D
	9	19	31.5	6A	640*	_	_	_	_	460/	′340*		_		120
	11	21	31.5	6B	544*	-	-	-	_	380/	280*		_] 3	350
	13	24	31.5	6D	448*	-	-	-	_	3	800		_	2	290
	13	25	33	FK	336*	-	-	-	_	-	_		_		-
27.5 mm	15	26	31.5	6F	384*	-	-	-	-	2	270		_	2	250
27.5	15	26	33	FL	288*	-	-	-	-	-	-		_	-	
	17	29	31.5	6G	1 <i>7</i> 6*	-	-	-	_		_		_	-	
	17	34.5			176*	-	-	-	-	-	-		_	-	
	20	32	33	FM	216*	-		-		-		-		-	
	20	39.5	31.5	6J	144*	-		-			-		_		
	9	19	41.5	7A	480*	-	-	-	_	-	-		_		_
	11	22	41.5	7B	408*	-		-		-		_		-	
	13 15	24 26	41.5 41.5	7C 7D	252*	_		_		-		-		-	
	17	29	41.5	7E	144* 132*	_		-		_		-		_	
07.5	19	32	41.5	7E 7F	108*			_		_		_			_
37.5 mm	20	39.5	41.5	7G	108*			_		_		_		_	
	24	45.5	41.5	7H	84*	_	_	_		_		_		_	
	27	15	41.5	7M	100*										
	31	46	41.5	71	72*	-	-	_		_		_		-	
	35	50	41.5	7J	35*	-	-	-	-	-	-		_		_
	40	55	41.5	7K	28*	-	-	-	_	-		_			_
	19	31	56	8D	50*	-	-	-	-		-		_		_
40.5	23	34	56	8E	72*	-	-	-	-		-		-		_
48.5 mm	27	37.5	56	8H	60*	-	-	-	-	-	-		-		-
	33	48	56	8J	48*	-	-	-	_	_		-		-	
	37	54	56	8L	25*	-		-		-		_			
FO 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



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

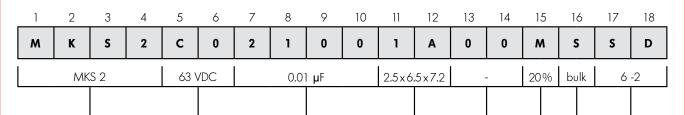
Field 11 - 12: Size and PCM

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

Field 15: Capacitance tolerance

Field 16: Packing

Field 17 - 18: Pin length (untaped)



Type description:	Rated voltage:	Capacitance:	Size:	Tolerance:
SMD-PET = SMDT	50 VDC = B0	22 pF = 0022	$4.8 \times 3.3 \times 3$ Size $1812 = KA$	$\pm 20\% = M$
SMD-PEN = SMDN	63 VDC = C0	47 pF = 0047	$4.8 \times 3.3 \times 4$ 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 = FKP0	250 VDC = FO	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	$7.2 \times 6.1 \times 3$ Size $2824 = TA$	±1% = E
FKS 2 = FKS2	450 VDC = H0	330 pF = 0330	$7.2 \times 6.1 \times 5$ 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	$12.7 \times 10.2 \times 6$ Size $5040 = XA$	
MKP 2 = MKP2	700 VDC = KO	1000 pF = 1100	$15.3 \times 13.7 \times 7$ 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 $340 \times 340 = A$
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 $490 \times 370 = B$
MKS 4 = MKS4	900 VDC = N0	3300 pF = 1330	$2.5 \times 6.5 \times 7.2 \text{ PCM} = 1 \text{A}$	AMMO H18.5 $340 \times 340 = C$
MKP 4 = MKP4	1000 VDC = 01	4700 pF = 1470	$3 \times 7.5 \times 7.2 \text{ PCM} 5 = 1B$	AMMO H18.5 $490 \times 370 = D$
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
FKP 4 = 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
FKP 1 = FKP1	1250 VDC = R0	$0.022 \mu F = 2220$	$3 \times 9 \times 13 \text{ PCM } 10 = 3A$	REEL H18.5 360 = I
MKP-X2 = MKX2	1500 VDC = S0	$0.047 \mu F = 2470$	$4 \times 9 \times 13 \text{ PCM } 10 = 3C$	REEL H18.5 500 = J
MKP-X2 R = MKXR	1600 VDC = T0	$0.1 \mu F = 3100$	$5 \times 11 \times 18 \text{ PCM } 15 = 4B$	ROLL H16.5 $= N$
MKP-X1R = MKX1	2000 VDC = U0	$0.22 \mu F = 3220$	$6 \times 12.5 \times 18 \text{ PCM } 15 = 4 \text{C}$	ROLL H18.5 = 0
MKP-Y2 = MKY2	2500 VDC = V0	$0.47 \mu F = 3470$	$5 \times 14 \times 26.5 \text{ PCM } 22.5 = 5A$	BLISTER W12 180 $= P$
MP 3-X2 = MPX2	3000 VDC = W0	$1 \mu F = 4100$	$6 \times 15 \times 26.5 \text{ PCM } 22.5 = 5B$	BLISTER W12 330 $= Q$
MP 3-X1 = MPX1	4000 VDC = X0	$2.2 \mu F = 4220$	$9 \times 19 \times 31.5 \text{ PCM } 27.5 = 6A$	BLISTER W16 330 $= R$
MP 3-Y2 = MPY2	6000 VDC = Y0	$4.7 \mu F = 4470$	$11 \times 21 \times 31.5 \text{ PCM } 27.5 = 6B$	BLISTER W24 330 $=$ T
MP 3R-Y2 = MPRY	250 VAC = 0W	$10 \mu F = 5100$	$9 \times 19 \times 41.5 \text{ PCM} 37.5 = 7A$	Bulk/TPS Standard = S
Snubber MKP = SNMP	275 VAC = 1 W	$22 \mu F = 5220$	$11 \times 22 \times 41.5 \text{ PCM} 37.5 = 7B$	
Snubber FKP = SNFP	300 VAC = 2W	$ 47 \mu F = 5470$	$19 \times 31 \times 56$ PCM $48.5 = 8D$	
GTO MKP = GTOM	305 VAC = AVV	$100 \mu F = 6100$	$35 \times 50 \times 57$ PCM $52.5 = 9F$	
DC-LINK MKP 3 = DCP3	400 VAC = 3W	$220 \mu F = 6220$		
DC-LINK MKP 4 = DCP4	440 VAC = 4W	$1000 \mu F = 7100$		
DC-LINKMKP4S = DCPS	500 VAC = 5W	$1500 \mu F = 7150$		
DC-LINK MKP 5 = DCP5			Version code:	D' Le ell (Le ell)
DC-LINK MKP 6 = DCP6			Standard = 00	Pin length (untaped)
DC-LINK HC = DCHC			Version A1 = 1A	$3.5 \pm 0.5 = C9$
			Version A1.1.1 = 1B	6-2 = SD
			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.