

Film and Foil Capacitors with Mixed Dielectric for Pulse Applications in PCM 5 mm

Special Features

- Pulse duty construction
- Constant capacitance value versus temperature (similar to the obsolete Polycarbonate)
- Low dissipation factor
- According to RoHS 2002/95/EC

Typical Applications

For general DC-applications requiring a high capacitance stability versus temperature e.g.

- Automotive electronics
- Lighting

Construction

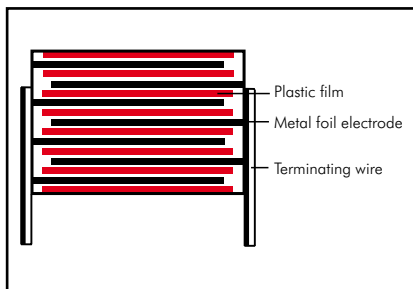
Dielectric:

Mixed 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: Gold.
Epoxy resin seal: Yellow.

Electrical Data

Capacitance range:

1000 pF to 0.022 μ F (E12-values on request)

Rated voltages:

100 VDC, 250 VDC, 400 VDC

Capacitance tolerances:

$\pm 20\%$, $\pm 10\%$, $\pm 5\%$ ($\pm 2.5\%$ available subject to special enquiry)

Operating temperature range:

-55° C to $+100^{\circ}$ C

Climatic test category:

55/100/56 in accordance with IEC

Insulation resistance at $+20^{\circ}$ C:

$\geq 5 \times 10^5$ M Ω

(mean value: 1×10^6 M Ω)

Measuring voltage: 100 V/1 min.

Test voltage: 2 U_r , 2 sec.

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

at f	$C \leq 0.022 \mu\text{F}$
1 kHz	$\leq 3 \times 10^{-3}$
10 kHz	$\leq 5 \times 10^{-3}$
100 kHz	$\leq 8 \times 10^{-3}$

Maximum pulse rise time:

1000 V/ μ sec for pulses equal to the rated voltage

Mechanical Tests

Pull test on leads:

10 N in direction of leads 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

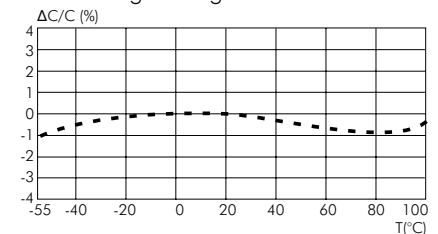
Low air density:

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

Capacitance change versus temperature (f = 1 kHz) (general guide)



Voltage derating:

A voltage derating factor of 1.35 % per K must be applied from $+85^{\circ}$ C for DC voltages and from $+75^{\circ}$ C for AC voltages

Reliability:

Operational life > 300 000 hours

Failure rate < 5 fit ($0.5 \times U_r$ and 40° C)

Packing

Available taped and reeled.

Detailed taping information and graphs at the end of the catalogue.

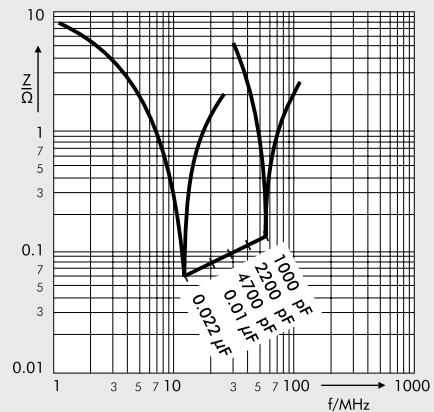
For further details and graphs please refer to Technical Information.

Continuation

General Data

Capacitance	100 VDC/63 VAC*					250 VDC/160 VAC*				
	W	H	L	PCM**	Part number	W	H	L	PCM**	Part number
1000 pF	2.5	6.5	7.2	5	FKM2D011001A00_	2.5	6.5	7.2	5	FKM2F011001A00_
1500 "	2.5	6.5	7.2	5	FKM2D011501A00_	2.5	6.5	7.2	5	FKM2F011501A00_
2200 "	2.5	6.5	7.2	5	FKM2D012201A00_	2.5	6.5	7.2	5	FKM2F012201A00_
3300 "	2.5	6.5	7.2	5	FKM2D013301A00_	3.5	8.5	7.2	5	FKM2F013301C00_
4700 "	3.5	8.5	7.2	5	FKM2D014701C00_	3.5	8.5	7.2	5	FKM2F014701C00_
6800 "	3.5	8.5	7.2	5	FKM2D016801C00_	4.5	9.5	7.2	5	FKM2F016801E00_
0.01 µF	4.5	9.5	7.2	5	FKM2D021001E00_	5.5	11.5	7.2	5	FKM2F021001H00_
0.015 "	5.5	11.5	7.2	5	FKM2D021501H00_	7.2	13	7.2	5	FKM2F021501K00_
0.022 "	7.2	13	7.2	5	FKM2D022201K00_					

Capacitance	400 VDC/200 VAC*				
	W	H	L	PCM**	Part number
1000 pF	2.5	6.5	7.2	5	FKM2G011001A00_
1500 "	3.5	8.5	7.2	5	FKM2G011501C00_
2200 "	3.5	8.5	7.2	5	FKM2G012201C00_
3300 "	4.5	9.5	7.2	5	FKM2G013301E00_
4700 "	4.5	9.5	7.2	5	FKM2G014701E00_
6800 "	5.5	11.5	7.2	5	FKM2G016801H00_
0.01 µF	7.2	13	7.2	5	FKM2G021001K00_

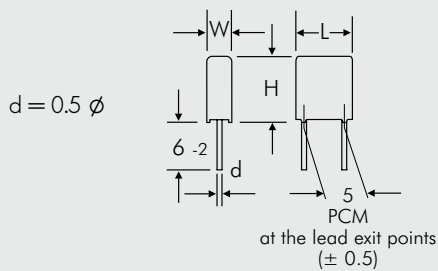


Impedance change with frequency (general guide).

* AC voltage: $f \leq 400 \text{ Hz}$; $1.4 \times U_{\text{rms}} + U_{\text{DC}} \leq U_r$

** PCM = Printed circuit module = lead spacing

Dims. in mm.



Part number completion:	
Tolerance:	20 % = M
	10 % = K
	5 % = J
	2.5 % = H
Packing:	bulk = S
Lead length:	6-2 = SD
Taped version see page 133.	

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Recommendation for Processing and Application of Through-Hole Capacitors

Soldering Process

A preheating of through-hole WIMA capacitors is allowed for temperatures $T_{\max} < 100^{\circ}\text{C}$.
In practice a preheating duration of $t < 5$ min. has been proven to be best.

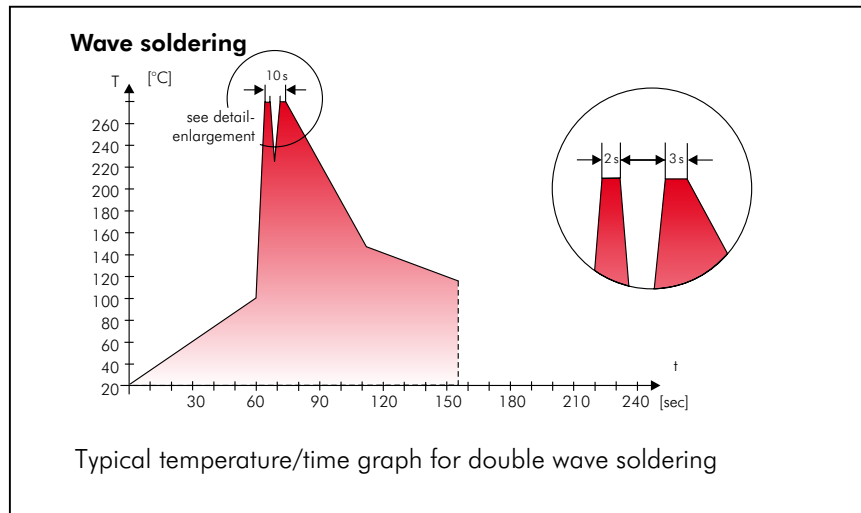
Single wave soldering

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

Double wave soldering

Soldering bath temperature: $T < 260^{\circ}\text{C}$
Immersion time: $2 \times t < 3$ 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 9001:2000 Certification

ISO 9001:2000 is an international basic standard of quality assurance systems for all branches of industry. The approval according to ISO 9001:2000 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
- lead attachment
- cast resin preparation/encapsulation
- 100% final inspection
- AQL check

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+
- PBB/PBDE
- Arsenic
- Cadmium
- Mercury
- 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 2002/95/EC 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 refrained from using such substances since years already.



WIMA Kondensatoren sind bleifrei konform RoHS 2002/95/EG

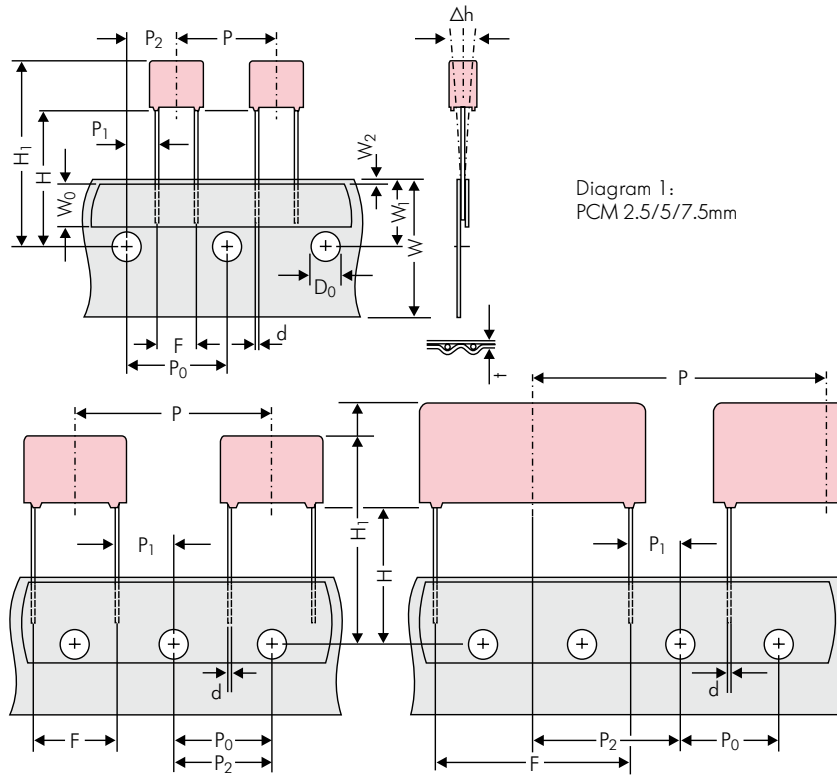
WIMA capacitors are lead free in accordance with RoHS 2002/95/EC

Tape for lead-free WIMA capacitors

DIN EN ISO 14001:2005

WIMA's environmental management has been established in accordance with the guidelines of DIN EN ISO 14001:2005. The certification has been granted in June 2006.

Typical Dimensions for Taping Configuration



*PCM 27.5 taping possible with two feed holes between components

Designation	Symbol	Dimensions for Radial Taping						
		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	P	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. 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. 1.0 mm/20 pitch
Feed hole centre to lead	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 edge of the component	H	16.5 ±0.3 18.5 ±0.5	16.5 ±0.3 18.5 ±0.5	16.5 ±0.5 18.5 ±0.5	16.5 ±0.5 18.5 ±0.5	16.5 ±0.5 18.5 ±0.5	16.5 ±0.5 18.5 ±0.5	16.5 ±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
Lead 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
Lead 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.	± 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
Package (see also page 134)	ROLL/AMMO			AMMO				
	REEL	φ 360 max. φ 30 ±1	B 52 ±2 58 ±2 } depending on comp. dimensions	REEL	φ 360 max. φ 30 ±1	52 ±2 58 ±2 or 66 ±2	REEL	φ 500 max. φ 25 ±1
Unit	see details page 136.							

Dims in mm.

* Diameter of leads see General Data.

* PCM 10 and PCM 15 can be crimped to PCM 7.5.

Position of components according to PCM 7.5 (sketch 11). P₀ = 12.7 or 15.0 is possible

Please clarify customer-specific deviations with the manufacturer.

Packing Quantities for Bulk Capacitors and TPS*



PCM	Size				pcs. per packaging unit bulk			pcs. per packaging unit/TPS*	
	W	H	L	Codes	Mini M	Standard S	Maxi G	Mini X	Standard Y
2.5 mm	2.5	7	4.6	0B	1000	5000	10 000	-	-
	3	7.5	4.6	0C	1000	5000	10 000	-	-
	3.8	8.5	4.6	0D	1000	5000	10 000	-	-
	4.6	9	4.6	0E	1000	5000	10 000	-	-
	5.5	10	4.6	0F	1000	5000	10 000	-	-
5 mm	2.5	6.5	7.2	1A	2000	5000	10 000	-	-
	3	7.5	7.2	1B	1000	5000	-	-	-
	3.5	8.5	7.2	1C	1000	5000	-	-	-
	4.5	6	7.2	1D	1000	6000	-	-	-
	4.5	9.5	7.2	1E	1000	4000	-	-	-
	5	10	7.2	1F	1000	3500	-	-	-
	5.5	7	7.2	1G	1000	4000	-	-	-
	5.5	11.5	7.2	1H	500	2500	-	-	-
	6.5	8	7.2	1I	1000	2500	-	-	-
	7.2	8.5	7.2	1J	500	2500	-	-	-
	7.2	13	7.2	1K	500	2000	-	-	-
	8.5	10	7.2	1L	500	2000	-	-	-
	8.5	14	7.2	1M	500	1500	-	-	-
11	16	7.2	1N	250	1000	-	-	-	
7.5 mm	2.5	7	10	2A	1000	5000	-	-	-
	3	8.5	10	2B	1000	5000	-	-	-
	4	9	10	2C	1000	4000	-	-	-
	4.5	9.5	10.3	2D	1000	3500	-	-	-
	5	10.5	10.3	2E	1000	3000	-	-	-
	5.7	12.5	10.3	2F	500	2000	-	-	-
	7.2	12.5	10.3	2G	500	1500	-	-	-
10 mm	3	9	13	3A	1000	3000	-	-	-
	4	8.5	13.5	3B	500	3000	-	-	-
	4	9	13	3C	1000	3000	-	-	-
	4	9.5	13	3D	1000	3000	-	-	-
	5	10	13.5	3E	500	2000	-	-	-
	5	11	13	3F	1000	3000	-	-	-
	6	12	13	3G	800	2400	-	-	-
	6	12.5	13	3H	800	2400	-	-	-
8	12	13	3I	500	2000	-	-	-	
15 mm	5	11	18	4B	800	2400	-	-	-
	5	13	19	4C	200	1000	-	-	-
	6	12.5	18	4D	500	2000	-	-	-
	6	14	19	4E	250	1000	-	-	-
	7	14	18	4F	400	1600	-	-	-
	7	15	19	4G	250	1000	-	-	-
	8	15	18	4H	400	1200	-	-	-
	8	17	19	4I	100	500	-	-	-
	9	14	18	4J	400	1200	-	-	-
	9	16	18	4K	300	900	-	-	-
	10	18	19	4L	100	500	-	-	-
11	14	18	4M	300	1000	-	-	-	
22.5 mm	5	14	26.5	5A	300	1200	-	-	-
	6	15	26.5	5B	250	1000	-	-	-
	7	16.5	26.5	5C	190	760	-	-	-
	8	20	28	5D	-	-	-	115	690
	8.5	18.5	26.5	5E	-	-	-	220	880
	10	22	28	5F	-	-	-	90	540
	10.5	19	26.5	5G	-	-	-	170	680
	10.5	20.5	26.5	5H	-	-	-	170	680
	11	21	26.5	5I	-	-	-	170	680
12	24	28	5J	-	-	-	75	450	
27.5 mm	9	19	31.5	6A	-	-	-	160	640
	11	21	31.5	6B	-	-	-	136	544
	13	24	31.5	6C	-	-	-	112	448
	13	25	33	6D	-	-	-	56	336
	15	26	31.5	6E	-	-	-	96	384
	15	26	33	6F	-	-	-	48	288
	17	29	31.5	6G	-	-	-	88	176
	17	34.5	31.5	6H	-	-	-	88	176
	20	32	33	6I	-	-	-	36	216
	20	39.5	31.5	6J	-	-	-	36	144
37.5 mm	9	19	41.5	7A	-	-	-	60	480
	11	22	41.5	7B	-	-	-	51	408
	13	24	41.5	7C	-	-	-	84	252
	15	26	41.5	7D	-	-	-	72	144
	17	29	41.5	7E	-	-	-	66	132
	19	32	41.5	7F	-	-	-	54	108
	20	39.5	41.5	7G	-	-	-	27	108
	24	45.5	41.5	7H	-	-	-	21	84



Packing Units for Taped Capacitors with Radial Leads

PCM	Size				ROLL		REEL				AMMO			
					H16.5	H18.5	ø 360		ø 500		340 x 340		490 x 370	
	W	H	L	Codes	N	O	F	I	H	J	A	C	B	D
2.5 mm	2.5	7	4.6	0B	2200		2500				2800			
	3	7.5	4.6	0C	2000		2300				2300			
	3.8	8.5	4.6	0D	1500		1800				1800			
	4.6	9	4.6	0E	1200		1500				1500			
	5.5	10	4.6	0F	900		1200				1200			
5 mm	2.5	6.5	7.2	1A	2200		2500				2800			
	3	7.5	7.2	1B	2000		2300				2300			
	3.5	8.5	7.2	1C	1600		2000				2000			
	4.5	6	7.2	1D	1300		1500				1500			
	4.5	9.5	7.2	1E	1300		1500				1500			
	5	10	7.2	1F	1100		1400				1400			
	5.5	7	7.2	1G	1000		1200				1200			
	5.5	11.5	7.2	1H	1000		1200				1200			
	6.5	8	7.2	1I	800		1000				1000			
	7.2	8.5	7.2	1J	700		1000				1000			
	7.2	13	7.2	1K	700		950				1000			
	8.5	10	7.2	1L	600		800				800			
	8.5	14	7.2	1M	600		800				800			
	11	16	7.2	1N	500		700				700			
7.5 mm	2.5	7	10	2A			2500		4400		2500			
	3	8.5	10	2B			2200		4300		2300		4150	
	4	9	10	2C			1700		3200		1700		3100	
	4.5	9.5	10.3	2D			1500		2900		1400		2800	
	5	10.5	10.3	2E			1300		2500		1300			
	5.7	12.5	10.3	2F			1000		2200		1100			
	7.2	12.5	10.3	2G			900		1800		1000			
10 mm	3	9	13	3A			1100		2200				1900	
	4	8.5	13.5	FA			900		1600				1450	
	4	9	13	3C			900		1600				1450	
	4	9.5	13	3D			900		1600				1400	
	5	10	13.5	FB			700		1300				1200	
	5	11	13	3F			700		1300				1200	
	6	12	13	3G			550		1100				1000	
	6	12.5	13	3H			550		1100				1000	
8	12	13	3I			400		800				740		
15 mm	5	11	18	4B			600		1200				1150	
	5	13	19	FC			600		1200				1200	
	6	12.5	18	4C			500		1000				1000	
	6	14	19	FD			500		1000				1000	
	7	14	18	4D			450		900				850	
	7	15	19	FE			450		900				850	
	8	15	18	4H			400		800				740	
	8	17	19	FF			400		800				740	
	9	14	18	4F			350		700				650	
	9	16	18	4J			350		700				650	
	10	18	19	FG			300		650				590	
11	14	18	4M			300		600				540		
22.5 mm	5	14	26.5	5A					800				770	
	6	15	26.5	5B					700				640	
	7	16.5	26.5	5D					600				550	
	8	20	28	FH					500				480	
	8.5	18.5	26.5	5F					480				450	
	10	22	28	FI					420				380	
	10.5	19	26.5	5G					400				360	
	10.5	20.5	26.5	5H					400				360	
	11	21	26.5	5I					380				350	
	12	24	28	FJ					350				310	
27.5 mm	9	19	31.5	6A					460/340*				420	
	11	21	31.5	6B					380/280*				350	
	13	24	31.5	6D					300				290	
	15	26	31.5	6F					270				250	

* for 2-inch transport pitches.

Samples and pre-production needs 1 packing unit minimum.

■ Moulded versions.

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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: Special features (e.g. Snubber versions)
- Field 15: Capacitance tolerance
- Field 16: Packing
- Field 17 - 18: Lead length (untaped)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
M	K	S	2	C	0	2	1	0	0	1	A	0	0	M	S	S	D
MKS 2				63 VDC		0.01 µF			2.5x6.5x7.2		-		20%	bulk	6 -2		

<p>Type description:</p> <p>SMD-PET = SMDT SMD-PPS = SMDI FKP 02 = FKP0 MKS 02 = MKS0 FKS 2 = FKS2 FKM 2 = FKM2 FKP 2 = FKP2 MKS 2 = MKS2 MKP 2 = MKP2 FKS 3 = FKS3 FKP 3 = FKP3 MKS 4 = MKS4 MKP 4 = MKP4 MKP 10 = MKP1 FKP 4 = FKP4 FKP 1 = FKP1 MKP-X2 = MKX2 MKP-X2 R = MKXR MKP-Y2 = MKY2 MP 3-X2 = MPX2 MP 3-X1 = MPX1 MP 3-Y2 = MPY2 MP 3R-Y2 = MPRY Snubber MKP = SNMP Snubber FKP = SNFP GTO MKP = GTOM DC-LINK MKP 4 = DCP4 DC-LINK MKP C = DCPC DC-LINK HC = DCH_ SuperCap C = SCSC SuperCap MC = SCMC SuperCap R = SCSR SuperCap MR = SCMR</p>	<p>Rated voltage:</p> <p>2.5 VDC = A1 4 VDC = A2 14 VDC = A3 28 VDC = A4 40 VDC = A5 5 VDC = A6 50 VDC = B0 63 VDC = C0 100 VDC = D0 160 VDC = E0 250 VDC = F0 400 VDC = G0 450 VDC = H0 600 VDC = I0 630 VDC = J0 700 VDC = K0 800 VDC = L0 850 VDC = M0 900 VDC = N0 1000 VDC = O1 1100 VDC = P0 1200 VDC = Q0 1250 VDC = R0 1500 VDC = S0 1600 VDC = T0 2000 VDC = U0 2500 VDC = V0 3000 VDC = W0 4000 VDC = X0 6000 VDC = Y0 250 VAC = 0W 275 VAC = 1W 300 VAC = 2W 400 VAC = 3W 440 VAC = 4W 500 VAC = 5W</p>	<p>Capacitance:</p> <p>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 1 F = A010 2.5 F = A025 50 F = A500 100 F = B100 110 F = B110 600 F = B600 1200 F = C120 ...</p>	<p>Size:</p> <p>4.8x3.3x3 Size 1812 = X1 4.8x3.3x4 Size 1812 = X2 5.7x5.1x3.5 Size 2220 = Y1 5.7x5.1x4.5 Size 2220 = Y2 7.2x6.1x3 Size 2824 = T1 7.2x6.1x5 Size 2824 = T2 10.2x7.6x5 Size 4030 = K1 12.7x10.2x6 Size 5040 = V1 15.3x13.7x7 Size 6054 = Q1 2.5x7x4.6 PCM 2.5 = 0B 3x7.5x4.6 PCM 2.5 = 0C 2.5x6.5x7.2 PCM 5 = 1A 3x7.5x7.2 PCM 5 = 1B 2.5x7x10 PCM 7.5 = 2A 3x8.5x10 PCM 7.5 = 2B 3x9x13 PCM 10 = 3A 4x9x13 PCM 10 = 3C 5x11x18 PCM 15 = 4B 6x12.5x18 PCM 15 = 4C 5x14x26.5 PCM 22.5 = 5A 6x15x26.5 PCM 22.5 = 5B 9x19x31.5 PCM 27.5 = 6A 11x21x31.5 PCM 27.5 = 6B 9x19x41.5 PCM 37.5 = 7A 11x22x41.5 PCM 37.5 = 7B 94x49x182 DCH_ = H0 94x77x182 DCH_ = H1 ...</p>	<p>Tolerance:</p> <p>20% = M 10% = K 5% = J 2.5% = H 1% = E ...</p> <p>Packing:</p> <p>AMMO H16.5 340x340 = A AMMO H16.5 490x370 = B AMMO H18.5 340x340 = C AMMO H18.5 490x370 = D REEL H16.5 360 = F REEL H16.5 500 = H REEL H18.5 360 = I REEL H18.5 500 = J ROLL H16.5 = N ROLL H18.5 = O BLISTER W12 180 = P BLISTER W12 330 = Q BLISTER W16 330 = R BLISTER W24 330 = T Bulk Mini = M Bulk Standard = S Bulk Maxi = G TPS Mini = X TPS Standard = Y ...</p>	
<p>Special features:</p> <p>Standard = 00 Version A1 = 1A Version A1.1.1 = 1B Version A1.2 = 1C ...</p>					<p>Lead length (untaped)</p> <p>3.5 ±0.5 = C9 6 -2 = SD 16 ±1 = P1 ...</p>

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.