

## Metallized Polyester (PET) Capacitors in PCM 5 mm

### Special Features

- High volume/capacitance ratio
- Self-healing
- According to RoHS 2002/95/EC

### Typical Applications

For general DC-applications e.g.

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

### Construction

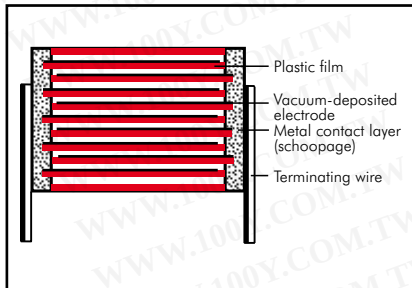
#### Dielectric:

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: Silver/White.  
Epoxy resin seal: Red

### Electrical Data

#### Capacitance range:

1000 pF to 10  $\mu$ F (E12-values on request)

#### Rated voltages:

16 VDC, 50 VDC, 63 VDC, 100 VDC,  
250 VDC, 400 VDC, 630 VDC

#### Capacitance tolerances:

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

#### Operating temperature range:

$-55^{\circ}\text{C}$  to  $+100^{\circ}\text{C}$

#### Climatic test category:

55/100/21 in accordance with IEC

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

| $U_r$                  | $U_{\text{test}}$ | $C \leq 0.33 \mu\text{F}$                                                              | $0.33 \mu\text{F} < C \leq 10 \mu\text{F}$                                  |
|------------------------|-------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 16 VDC                 | 10V               | $\geq 3.75 \times 10^3 \text{ M}\Omega$ (mean value: $1 \times 10^4 \text{ M}\Omega$ ) | $\geq 1000 \text{ sec (M}\Omega \times \mu\text{F)}$ (mean value: 3000 sec) |
| 50 VDC                 | 10V               | $\geq 5 \times 10^3 \text{ M}\Omega$ (mean value: $3 \times 10^4 \text{ M}\Omega$ )    | $\geq 1000 \text{ sec (M}\Omega \times \mu\text{F)}$ (mean value: 3000 sec) |
| 63 VDC                 | 50V               | $\geq 1 \times 10^4 \text{ M}\Omega$ (mean value: $5 \times 10^4 \text{ M}\Omega$ )    | $\geq 1250 \text{ sec (M}\Omega \times \mu\text{F)}$ (mean value: 3000 sec) |
| $\geq 100 \text{ VDC}$ | 100V              | $\geq 1.5 \times 10^4 \text{ M}\Omega$ (mean value: $1 \times 10^5 \text{ M}\Omega$ )  | $\geq 3000 \text{ sec (M}\Omega \times \mu\text{F)}$ (mean value: 6000 sec) |

Measuring time: 1 min.

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

| at f    | $C \leq 0.1 \mu\text{F}$ | $0.1 \mu\text{F} < C \leq 1.0 \mu\text{F}$ | $C > 1.0 \mu\text{F}$    |
|---------|--------------------------|--------------------------------------------|--------------------------|
| 1 kHz   | $\leq 8 \times 10^{-3}$  | $\leq 8 \times 10^{-3}$                    | $\leq 10 \times 10^{-3}$ |
| 10 kHz  | $\leq 15 \times 10^{-3}$ | $\leq 15 \times 10^{-3}$                   | —                        |
| 100 kHz | $\leq 30 \times 10^{-3}$ | —                                          | —                        |

#### Maximum pulse rise time: for pulses equal to the rated voltage

| Capacitance<br>pF/ $\mu\text{F}$ | Pulse rise time V/ $\mu\text{sec}$<br>max. operation/test |        |        |         |         |         |          |
|----------------------------------|-----------------------------------------------------------|--------|--------|---------|---------|---------|----------|
|                                  | 16 VDC                                                    | 50 VDC | 63 VDC | 100 VDC | 250 VDC | 400 VDC | 630 VDC  |
| 1000 ... 6800                    | —                                                         | —      | —      | —       | —       | —       | 110/1100 |
| 0.01 ... 0.022                   | —                                                         | —      | 35/350 | 35/350  | 50/500  | 80/800  | 110/1100 |
| 0.033 ... 0.068                  | —                                                         | —      | 20/200 | 25/250  | 50/500  | 80/800  | 90/900   |
| 0.1 ... 0.47                     | —                                                         | 10/100 | 15/150 | 20/200  | 50/500  | 80/800  | —        |
| 0.68 ... 1.0                     | —                                                         | 8/80   | 12/120 | 15/150  | 25/250  | —       | —        |
| 1.5 ... 3.3                      | —                                                         | 8/80   | 7.5/75 | 10/100  | —       | —       | —        |
| 4.7                              | 4/40                                                      | 5/50   | 5/50   | —       | —       | —       | —        |
| 6.8                              | 3/30                                                      | 3/30   | 3/30   | —       | —       | —       | —        |
| 10                               | 3/30                                                      | 2.5/25 | —      | —       | —       | —       | —        |

### 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:

1 kPa = 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.

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## Continuation

### General Data

| Capacitance  | 16 VDC/10 VAC* |      |     |       |                     | 50 VDC/30 VAC* |      |     |       |                     |
|--------------|----------------|------|-----|-------|---------------------|----------------|------|-----|-------|---------------------|
|              | W              | H    | L   | PCM** | Part number         | W              | H    | L   | PCM** | Part number         |
| 0.33 $\mu$ F |                |      |     |       |                     | 2.5            | 6.5  | 7.2 | 5     | MKS2B033301A00_____ |
| 0.47 "       |                |      |     |       |                     | 3              | 7.5  | 7.2 | 5     | MKS2B034701B00_____ |
| 0.68 "       |                |      |     |       |                     | 3.5            | 8.5  | 7.2 | 5     | MKS2B036801C00_____ |
| 1.0 $\mu$ F  |                |      |     |       |                     | 3.5            | 8.5  | 7.2 | 5     | MKS2B041001C00_____ |
| 1.5 "        |                |      |     |       |                     | 4.5            | 9.5  | 7.2 | 5     | MKS2B041501E00_____ |
| 2.2 "        |                |      |     |       |                     | 5              | 10   | 7.2 | 5     | MKS2B042201F00_____ |
| 3.3 "        |                |      |     |       |                     | 5.5            | 11.5 | 7.2 | 5     | MKS2B043301H00_____ |
| 4.7 "        | 5.5            | 11.5 | 7.2 | 5     | MKS2A044701H00_____ | 7.2            | 13   | 7.2 | 5     | MKS2B044701K00_____ |
| 6.8 "        | 7.2            | 13   | 7.2 | 5     | MKS2A046801K00_____ | 8.5            | 14   | 7.2 | 5     | MKS2B046801M00_____ |
| 10 $\mu$ F   | 8.5            | 14   | 7.2 | 5     | MKS2A051001M00_____ | 11             | 16   | 7.2 | 5     | MKS2B051001N00_____ |

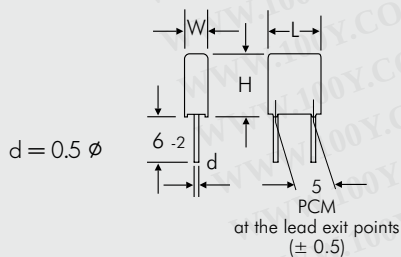
  

| Capacitance  | 63 VDC/40 VAC* |      |     |       |                     | 100 VDC/63 VAC* |     |     |       |                     |
|--------------|----------------|------|-----|-------|---------------------|-----------------|-----|-----|-------|---------------------|
|              | W              | H    | L   | PCM** | Part number         | W               | H   | L   | PCM** | Part number         |
| 0.01 $\mu$ F | 2.5            | 6.5  | 7.2 | 5     | MKS2C021001A00_____ | 2.5             | 6.5 | 7.2 | 5     | MKS2D021001A00_____ |
| 0.015 "      | 2.5            | 6.5  | 7.2 | 5     | MKS2C021501A00_____ | 2.5             | 6.5 | 7.2 | 5     | MKS2D021501A00_____ |
| 0.022 "      | 2.5            | 6.5  | 7.2 | 5     | MKS2C022201A00_____ | 2.5             | 6.5 | 7.2 | 5     | MKS2D022201A00_____ |
| 0.033 "      | 2.5            | 6.5  | 7.2 | 5     | MKS2C023301A00_____ | 2.5             | 6.5 | 7.2 | 5     | MKS2D023301A00_____ |
| 0.047 "      | 2.5            | 6.5  | 7.2 | 5     | MKS2C024701A00_____ | 2.5             | 6.5 | 7.2 | 5     | MKS2D024701A00_____ |
| 0.068 "      | 2.5            | 6.5  | 7.2 | 5     | MKS2C026801A00_____ | 2.5             | 6.5 | 7.2 | 5     | MKS2D026801A00_____ |
| 0.1 $\mu$ F  | 2.5            | 6.5  | 7.2 | 5     | MKS2C031001A00_____ | 2.5             | 6.5 | 7.2 | 5     | MKS2D031001A00_____ |
| 0.15 "       | 2.5            | 6.5  | 7.2 | 5     | MKS2C031501A00_____ | 3.5             | 8.5 | 7.2 | 5     | MKS2D031501C00_____ |
| 0.22 "       | 3              | 7.5  | 7.2 | 5     | MKS2C032201B00_____ | 3.5             | 8.5 | 7.2 | 5     | MKS2D032201C00_____ |
| 0.33 "       | 3.5            | 8.5  | 7.2 | 5     | MKS2C033301C00_____ | 4.5             | 9.5 | 7.2 | 5     | MKS2D033301E00_____ |
| 0.47 "       | 3.5            | 8.5  | 7.2 | 5     | MKS2C034701C00_____ | 4.5             | 9.5 | 7.2 | 5     | MKS2D034701E00_____ |
| 0.68 "       | 4.5            | 9.5  | 7.2 | 5     | MKS2C036801E00_____ | 5               | 10  | 7.2 | 5     | MKS2D036801F00_____ |
| 1.0 $\mu$ F  | 5              | 10   | 7.2 | 5     | MKS2C041001F00_____ | 7.2             | 13  | 7.2 | 5     | MKS2D041001K00_____ |
| 1.5 "        | 5.5            | 11.5 | 7.2 | 5     | MKS2C041501H00_____ | 8.5             | 14  | 7.2 | 5     | MKS2D041501M00_____ |
| 2.2 "        | 7.2            | 13   | 7.2 | 5     | MKS2C042201K00_____ | 11              | 16  | 7.2 | 5     | MKS2D042201N00_____ |
| 3.3 "        | 7.2            | 13   | 7.2 | 5     | MKS2C043301K00_____ |                 |     |     |       |                     |
| 4.7 "        | 8.5            | 14   | 7.2 | 5     | MKS2C044701M00_____ |                 |     |     |       |                     |
| 6.8 "        | 11             | 16   | 7.2 | 5     | MKS2C046801N00_____ |                 |     |     |       |                     |

\* AC voltage:  $f = 50 \text{ Hz}$ ;  $1.4 \times U_{\text{rms}} + \text{UDC} \leq U_r$

\*\* PCM = Printed circuit module = lead spacing.

Dims. in mm.



#### Part number completion:

Tolerance: 20 % = M

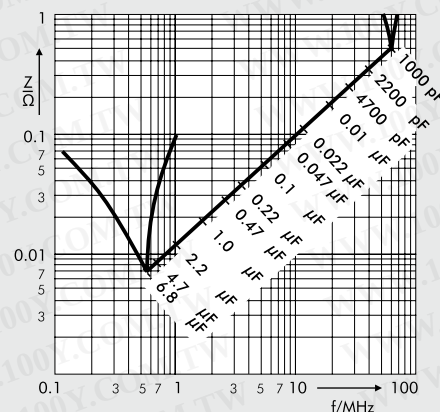
10 % = K

5 % = J

Packing: bulk = S

Lead length: 6-2 = SD

Taped version see page 140.



Impedance change with frequency  
(general guide).

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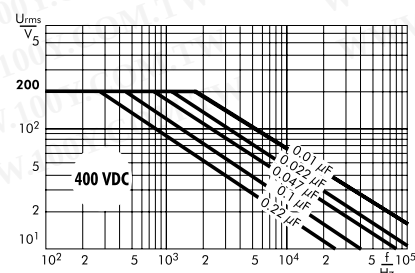
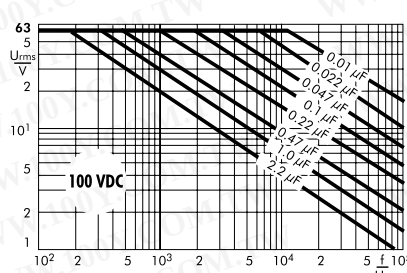
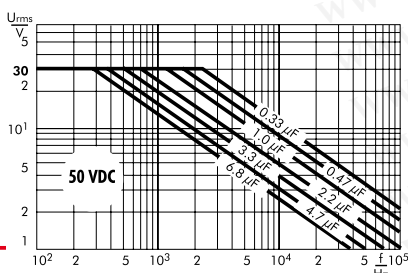
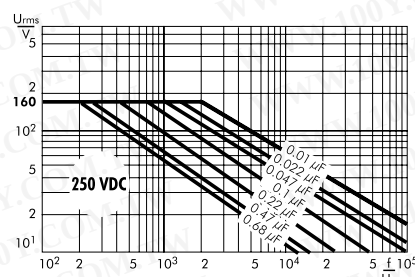
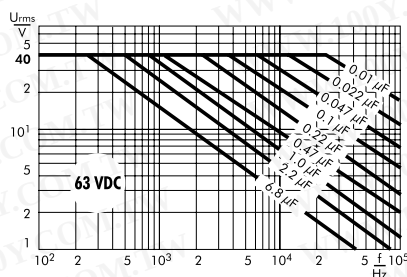
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| Capacitance | 250 VDC/160 VAC* |      |     |          |                     | 400 VDC/200 VAC* |      |     |          |                     |
|-------------|------------------|------|-----|----------|---------------------|------------------|------|-----|----------|---------------------|
|             | W                | H    | L   | PCM**    | Part number         | W                | H    | L   | PCM**    | Part number         |
| 0.01 μF     | 2.5              | 6.5  | 7.2 | <b>5</b> | MKS2F021001A00_____ | 2.5              | 6.5  | 7.2 | <b>5</b> | MKS2G021001A00_____ |
| 0.015 "     | 2.5              | 6.5  | 7.2 | <b>5</b> | MKS2F021501A00_____ | 2.5              | 6.5  | 7.2 | <b>5</b> | MKS2G021501A00_____ |
| 0.022 "     | 2.5              | 6.5  | 7.2 | <b>5</b> | MKS2F022201A00_____ | 3.5              | 8.5  | 7.2 | <b>5</b> | MKS2G022201C00_____ |
| 0.033 "     | 3.5              | 8.5  | 7.2 | <b>5</b> | MKS2F023301C00_____ | 4.5              | 9.5  | 7.2 | <b>5</b> | MKS2G023301E00_____ |
| 0.047 "     | 3.5              | 8.5  | 7.2 | <b>5</b> | MKS2F024701C00_____ | 4.5              | 9.5  | 7.2 | <b>5</b> | MKS2G024701E00_____ |
| 0.068 "     | 3.5              | 8.5  | 7.2 | <b>5</b> | MKS2F026801C00_____ | 5.5              | 11.5 | 7.2 | <b>5</b> | MKS2G026801H00_____ |
| 0.1 μF      | 4.5              | 9.5  | 7.2 | <b>5</b> | MKS2F031001E00_____ | 7.2              | 13   | 7.2 | <b>5</b> | MKS2G031001K00_____ |
| 0.15 "      | 5                | 10   | 7.2 | <b>5</b> | MKS2F031501F00_____ | 8.5              | 14   | 7.2 | <b>5</b> | MKS2G031501M00_____ |
| 0.22 "      | 5.5              | 11.5 | 7.2 | <b>5</b> | MKS2F032201H00_____ | 11               | 16   | 7.2 | <b>5</b> | MKS2G032201N00_____ |
| 0.33 "      | 7.2              | 13   | 7.2 | <b>5</b> | MKS2F033301K00_____ |                  |      |     |          |                     |
| 0.47 "      | 8.5              | 14   | 7.2 | <b>5</b> | MKS2F034701M00_____ |                  |      |     |          |                     |
| 0.68 "      | 11               | 16   | 7.2 | <b>5</b> | MKS2F036801N00_____ |                  |      |     |          |                     |

| Capacitance | 630 VDC/220 VAC* |      |     |          |                     |
|-------------|------------------|------|-----|----------|---------------------|
|             | W                | H    | L   | PCM**    | Part number         |
| 1000 pF     | 3                | 7.5  | 7.2 | <b>5</b> | MKS2J011001B00_____ |
| 1500 "      | 3                | 7.5  | 7.2 | <b>5</b> | MKS2J011501B00_____ |
| 2200 "      | 3                | 7.5  | 7.2 | <b>5</b> | MKS2J012201B00_____ |
| 3300 "      | 3                | 7.5  | 7.2 | <b>5</b> | MKS2J013301B00_____ |
| 4700 "      | 3.5              | 8.5  | 7.2 | <b>5</b> | MKS2J014701C00_____ |
| 6800 "      | 4.5              | 9.5  | 7.2 | <b>5</b> | MKS2J016801E00_____ |
| 0.01 μF     | 5.5              | 11.5 | 7.2 | <b>5</b> | MKS2J021001H00_____ |
| 0.015 "     | 7.2              | 13   | 7.2 | <b>5</b> | MKS2J021501K00_____ |
| 0.022 "     | 7.2              | 13   | 7.2 | <b>5</b> | MKS2J022201K00_____ |
| 0.033 "     | 7.2              | 13   | 7.2 | <b>5</b> | MKS2J023301K00_____ |
| 0.047 "     | 8.5              | 14   | 7.2 | <b>5</b> | MKS2J024701M00_____ |

Taped version see page 140.

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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.

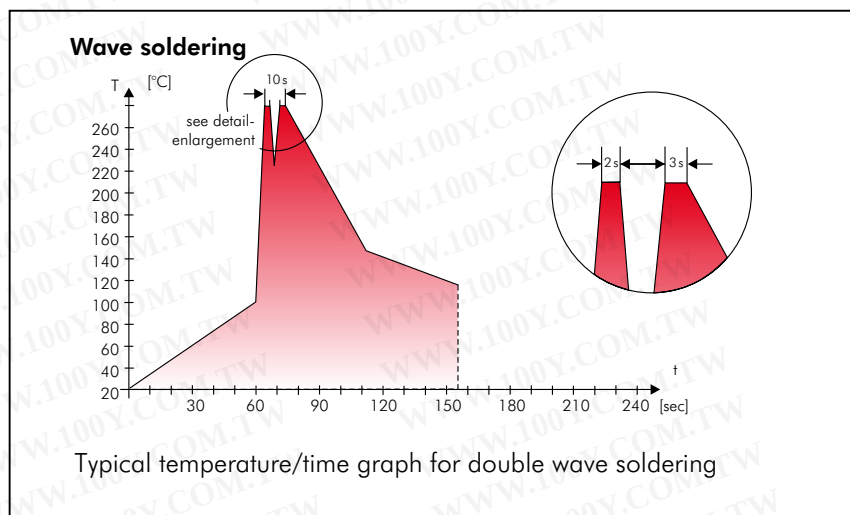
#### Single wave soldering

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

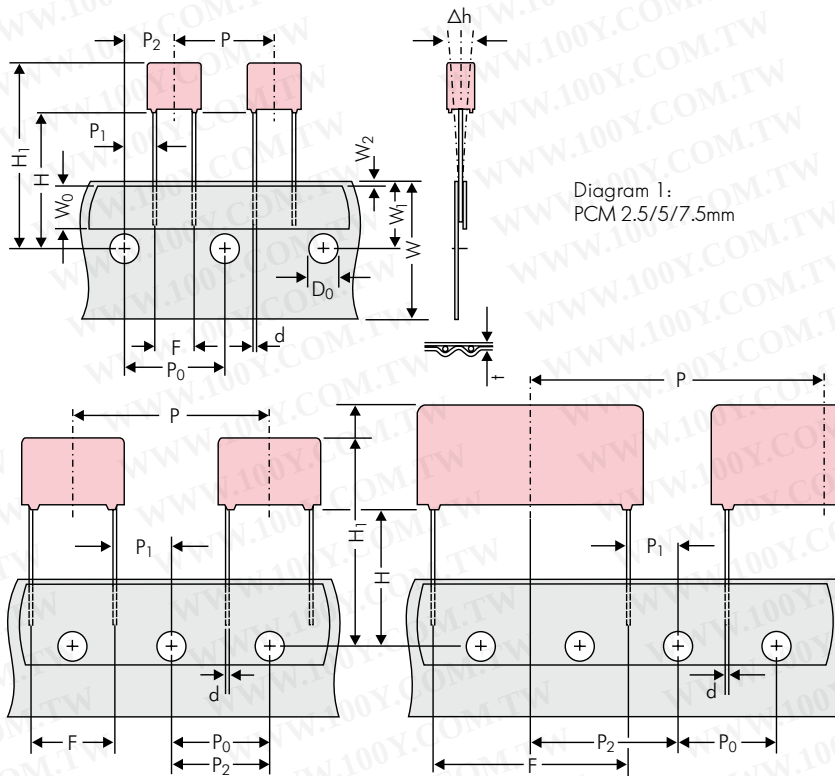
Tape for lead-free WIMA capacitors

### 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.

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## Typical Dimensions for Taping Configuration



| Designation                                      | Symbol         | Dimensions for Radial Taping                             |                                                          |                                                           |                                                           |                                                           |                                                           |                                                           |
|--------------------------------------------------|----------------|----------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|
|                                                  |                | PCM 2.5 tapping                                          | PCM 5 tapping                                            | PCM 7.5 tapping                                           | PCM 10 tapping*                                           | PCM 15 tapping*                                           | PCM 22.5 tapping                                          | PCM 27.5 tapping                                          |
| 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                               | 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 <sub>0</sub> | 12.7 ±0.3<br>cumulative pitch error max. 1.0 mm/20 pitch | 12.7 ±0.3<br>cumulative pitch error max. 1.0 mm/20 pitch | 12.7 ±0.3<br>cumulative pitch error max. 1.0 mm/20 pitch  | 12.7 ±0.3<br>cumulative pitch error max. 1.0 mm/20 pitch  | 12.7 ±0.3<br>cumulative pitch error max. 1.0 mm/20 pitch  | 12.7 ±0.3<br>cumulative pitch error max. 1.0 mm/20 pitch  | 12.7 ±0.3<br>cumulative pitch error max. 1.0 mm/20 pitch  |
| Feed hole centre to lead                         | P <sub>1</sub> | 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 <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 edge of the component | H              | 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                                                 |
|                                                  |                | 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><br>32.25 max.  | H+H <sub>component</sub> < H <sub>1</sub><br>32.25 max.  | H+H <sub>component</sub> < H <sub>1</sub><br>24.5 to 31.5 | H+H <sub>component</sub> < H <sub>1</sub><br>25.0 to 31.5 | H+H <sub>component</sub> < H <sub>1</sub><br>26.0 to 37.0 | H+H <sub>component</sub> < H <sub>1</sub><br>30.0 to 43.0 | H+H <sub>component</sub> < H <sub>1</sub><br>35.0 to 45.0 |
| Lead 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                                                 |
| Lead diameter                                    | d              | 0.4 ±0.05                                                | 0.5 ±0.05                                                | •0.5 ±0.05 or 0.6 <sup>+0.06</sup> <sub>-0.05</sub>       | •0.5 ±0.05 or 0.6 <sup>+0.06</sup> <sub>-0.05</sub>       | 0.8 <sup>+0.08</sup> <sub>-0.05</sub>                     | 0.8 <sup>+0.08</sup> <sub>-0.05</sub>                     | 0.8 <sup>+0.08</sup> <sub>-0.05</sub>                     |
| 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<br>(see also page 141)                   |                | ROLL/AMMO                                                |                                                          |                                                           | AMMO                                                      |                                                           |                                                           |                                                           |
|                                                  |                | REEL                                                     | ø 360 max.<br>ø 30 ±1                                    | B 52 ±2<br>B 58 ±2 } depending on comp. dimensions        | REEL                                                      | ø 360 max.<br>ø 30 ±1                                     | 52 ±2<br>B 58 ±2 or 66 ±2                                 | REEL                                                      |
| Unit                                             |                | see details page 143.                                    |                                                          |                                                           |                                                           |                                                           |                                                           |                                                           |

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 1). P<sub>0</sub> = 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                         | Standard | Maxi  | Mini                         | Standard |
| <b>2.5 mm</b>  | 2.5  | 7    | 4.6  | <b>0B</b> | 1000                         | 5000     | 10000 | -                            | -        |
|                | 3    | 7.5  | 4.6  | <b>0C</b> | 1000                         | 5000     | 10000 | -                            | -        |
|                | 3.8  | 8.5  | 4.6  | <b>0D</b> | 1000                         | 5000     | 10000 | -                            | -        |
|                | 4.6  | 9    | 4.6  | <b>0E</b> | 1000                         | 5000     | 10000 | -                            | -        |
|                | 5.5  | 10   | 4.6  | <b>0F</b> | 1000                         | 5000     | 10000 | -                            | -        |
|                |      |      |      |           |                              |          |       |                              |          |
| <b>5 mm</b>    | 2.5  | 6.5  | 7.2  | <b>1A</b> | 2000                         | 5000     | 10000 | -                            | -        |
|                | 3    | 7.5  | 7.2  | <b>1B</b> | 1000                         | 5000     | -     | -                            | -        |
|                | 3.5  | 8.5  | 7.2  | <b>1C</b> | 1000                         | 5000     | -     | -                            | -        |
|                | 4.5  | 6    | 7.2  | <b>1D</b> | 1000                         | 6000     | -     | -                            | -        |
|                | 4.5  | 9.5  | 7.2  | <b>1E</b> | 1000                         | 4000     | -     | -                            | -        |
|                | 5    | 10   | 7.2  | <b>1F</b> | 1000                         | 3500     | -     | -                            | -        |
|                | 5.5  | 7    | 7.2  | <b>1G</b> | 1000                         | 4000     | -     | -                            | -        |
|                | 5.5  | 11.5 | 7.2  | <b>1H</b> | 500                          | 2500     | -     | -                            | -        |
|                | 6.5  | 8    | 7.2  | <b>1I</b> | 1000                         | 2500     | -     | -                            | -        |
|                | 7.2  | 8.5  | 7.2  | <b>1J</b> | 500                          | 2500     | -     | -                            | -        |
|                | 7.2  | 13   | 7.2  | <b>1K</b> | 500                          | 2000     | -     | -                            | -        |
|                | 8.5  | 10   | 7.2  | <b>1L</b> | 500                          | 2000     | -     | -                            | -        |
|                | 8.5  | 14   | 7.2  | <b>1M</b> | 500                          | 1500     | -     | -                            | -        |
|                | 11   | 16   | 7.2  | <b>1N</b> | 250                          | 1000     | -     | -                            | -        |
| <b>7.5 mm</b>  | 2.5  | 7    | 10   | <b>2A</b> | 1000                         | 5000     | -     | -                            | -        |
|                | 3    | 8.5  | 10   | <b>2B</b> | 1000                         | 5000     | -     | -                            | -        |
|                | 4    | 9    | 10   | <b>2C</b> | 1000                         | 4000     | -     | -                            | -        |
|                | 4.5  | 9.5  | 10.3 | <b>2D</b> | 1000                         | 3500     | -     | -                            | -        |
|                | 5    | 10.5 | 10.3 | <b>2E</b> | 1000                         | 3000     | -     | -                            | -        |
|                | 5.7  | 12.5 | 10.3 | <b>2F</b> | 500                          | 2000     | -     | -                            | -        |
|                | 7.2  | 12.5 | 10.3 | <b>2G</b> | 500                          | 1500     | -     | -                            | -        |
| <b>10 mm</b>   | 3    | 9    | 13   | <b>3A</b> | 1000                         | 3000     | -     | -                            | -        |
|                | 4    | 8.5  | 13.5 | <b>3B</b> | 500                          | 3000     | -     | -                            | -        |
|                | 4    | 9    | 13   | <b>3C</b> | 1000                         | 3000     | -     | -                            | -        |
|                | 4    | 9.5  | 13   | <b>3D</b> | 1000                         | 3000     | -     | -                            | -        |
|                | 5    | 10   | 13.5 | <b>3E</b> | 500                          | 2000     | -     | -                            | -        |
|                | 5    | 11   | 13   | <b>3F</b> | 1000                         | 3000     | -     | -                            | -        |
|                | 6    | 12   | 13   | <b>3G</b> | 800                          | 2400     | -     | -                            | -        |
|                | 6    | 12.5 | 13   | <b>3H</b> | 800                          | 2400     | -     | -                            | -        |
| <b>15 mm</b>   | 8    | 12   | 13   | <b>3I</b> | 500                          | 2000     | -     | -                            | -        |
|                | 5    | 11   | 18   | <b>4B</b> | 800                          | 2400     | -     | -                            | -        |
|                | 5    | 13   | 19   | <b>4C</b> | 200                          | 1000     | -     | -                            | -        |
|                | 6    | 12.5 | 18   | <b>4D</b> | 500                          | 2000     | -     | -                            | -        |
|                | 6    | 14   | 19   | <b>4E</b> | 250                          | 1000     | -     | -                            | -        |
|                | 7    | 14   | 18   | <b>4F</b> | 400                          | 1600     | -     | -                            | -        |
|                | 7    | 15   | 19   | <b>4G</b> | 250                          | 1000     | -     | -                            | -        |
|                | 8    | 15   | 18   | <b>4H</b> | 400                          | 1200     | -     | -                            | -        |
|                | 8    | 17   | 19   | <b>4I</b> | 100                          | 500      | -     | -                            | -        |
|                | 9    | 14   | 18   | <b>4J</b> | 400                          | 1200     | -     | -                            | -        |
|                | 9    | 16   | 18   | <b>4K</b> | 300                          | 900      | -     | -                            | -        |
| <b>22.5 mm</b> | 10   | 18   | 19   | <b>4L</b> | 100                          | 500      | -     | -                            | -        |
|                | 11   | 14   | 18   | <b>4M</b> | 300                          | 1000     | -     | -                            | -        |
|                | 5    | 14   | 26.5 | <b>5A</b> | 300                          | 1200     | -     | -                            | -        |
|                | 6    | 15   | 26.5 | <b>5B</b> | 250                          | 1000     | -     | -                            | -        |
|                | 7    | 16.5 | 26.5 | <b>5C</b> | 190                          | 760      | -     | -                            | -        |
|                | 8    | 20   | 28   | <b>5D</b> | -                            | -        | -     | 115                          | 690      |
|                | 8.5  | 18.5 | 26.5 | <b>5E</b> | -                            | -        | -     | 220                          | 880      |
|                | 10   | 22   | 28   | <b>5F</b> | -                            | -        | -     | 90                           | 540      |
| <b>27.5 mm</b> | 10.5 | 19   | 26.5 | <b>5G</b> | -                            | -        | -     | 170                          | 680      |
|                | 10.5 | 20.5 | 26.5 | <b>5H</b> | -                            | -        | -     | 170                          | 680      |
|                | 11   | 21   | 26.5 | <b>5I</b> | -                            | -        | -     | 170                          | 680      |
|                | 12   | 24   | 28   | <b>5J</b> | -                            | -        | -     | 75                           | 450      |
|                | 9    | 19   | 31.5 | <b>6A</b> | -                            | -        | -     | 160                          | 640      |
|                | 11   | 21   | 31.5 | <b>6B</b> | -                            | -        | -     | 136                          | 544      |
|                | 13   | 24   | 31.5 | <b>6C</b> | -                            | -        | -     | 112                          | 448      |
|                | 13   | 25   | 33   | <b>6D</b> | -                            | -        | -     | 56                           | 336      |
| <b>37.5 mm</b> | 15   | 26   | 31.5 | <b>6E</b> | -                            | -        | -     | 96                           | 384      |
|                | 15   | 26   | 33   | <b>6F</b> | -                            | -        | -     | 48                           | 288      |
|                | 17   | 29   | 31.5 | <b>6G</b> | -                            | -        | -     | 88                           | 176      |
|                | 17   | 34.5 | 31.5 | <b>6H</b> | -                            | -        | -     | 88                           | 176      |
|                | 20   | 32   | 33   | <b>6I</b> | -                            | -        | -     | 36                           | 216      |
|                | 20   | 39.5 | 31.5 | <b>6J</b> | -                            | -        | -     | 36                           | 144      |
|                | 9    | 19   | 41.5 | <b>7A</b> | -                            | -        | -     | 60                           | 480      |
|                | 11   | 22   | 41.5 | <b>7B</b> | -                            | -        | -     | 51                           | 408      |
| <b>37.5 mm</b> | 13   | 24   | 41.5 | <b>7C</b> | -                            | -        | -     | 84                           | 252      |
|                | 15   | 26   | 41.5 | <b>7D</b> | -                            | -        | -     | 72                           | 144      |
|                | 17   | 29   | 41.5 | <b>7E</b> | -                            | -        | -     | 66                           | 132      |
|                | 19   | 32   | 41.5 | <b>7F</b> | -                            | -        | -     | 54                           | 108      |
|                | 20   | 39.5 | 41.5 | <b>7G</b> | -                            | -        | -     | 27                           | 108      |
|                | 24   | 45.5 | 41.5 | <b>7H</b> | -                            | -        | -     | 21                           | 84       |

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## Packing Units for Taped Capacitors with Radial Leads



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

\* for 2-inch transport pitches.

Samples and pre-production needs 1 packing unit minimum.

■ Moulded versions.

Rights reserved to amend design data without prior notification.

勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-34970699  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)



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

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| 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 $\mu$ F |   |   |    | 2.5x6.5x7.2 |    | -  |    | 20% | bulk | 6 -2 |    |

| Type description:    | Rated voltage: | Capacitance:         | Size:                      | Tolerance: | Packing:                     |
|----------------------|----------------|----------------------|----------------------------|------------|------------------------------|
| SMD-PET = SMDT       | 16 VDC = A0    | 22 pF = 0022         | 4.8x3.3x3 Size 1812 = X1   | 20% = M    | AMMO H16.5 340x340 = A       |
| SMD-PEN = SMDN       | 2.5 VDC = A1   | 47 pF = 0047         | 4.8x3.3x4 Size 1812 = X2   | 10% = K    | AMMO H16.5 490x370 = B       |
| SMD-PPS = SMDI       | 4 VDC = A2     | 100 pF = 0100        | 5.7x5.1x3.5 Size 2220 = Y1 | 5% = J     | AMMO H18.5 340x340 = C       |
| FKP 02 = FKPO        | 14 VDC = A3    | 150 pF = 0150        | 5.7x5.1x4.5 Size 2220 = Y2 | 2.5% = H   | AMMO H18.5 490x370 = D       |
| MKS 02 = MKSO        | 28 VDC = A4    | 220 pF = 0220        | 7.2x6.1x3 Size 2824 = T1   | 1% = E     | REEL H16.5 360 = F           |
| FKS 2 = FKS2         | 40 VDC = A5    | 330 pF = 0330        | 7.2x6.1x5 Size 2824 = T2   | ...        | REEL H16.5 500 = H           |
| FKM 2 = FKM2         | 5 VDC = A6     | 470 pF = 0470        | 10.2x7.6x5 Size 4030 = K1  |            | REEL H18.5 360 = I           |
| FKP 2 = FKP2         | 50 VDC = B0    | 680 pF = 0680        | 12.7x10.2x6 Size 5040 = V1 |            | REEL H18.5 500 = J           |
| MKS 2 = MKS2         | 63 VDC = C0    | 1000 pF = 1100       | 15.3x13.7x7 Size 6054 = Q1 |            | ROLL H16.5 = N               |
| MKP 2 = MKP2         | 100 VDC = D0   | 1500 pF = 1150       | 2.5x7x4.6 PCM 2.5 = 0B     |            | ROLL H18.5 = O               |
| MKI 2 = MKI2         | 160 VDC = E0   | 2200 pF = 1220       | 3x7.5x4.6 PCM 2.5 = 0C     |            | BLISTER W12 180 = P          |
| FKS 3 = FKS3         | 250 VDC = F0   | 3300 pF = 1330       | 2.5x6.5x7.2 PCM 5 = 1A     |            | BLISTER W12 330 = Q          |
| FKM 3 = FKM3         | 400 VDC = G0   | 4700 pF = 1470       | 3x7.5x7.2 PCM 5 = 1B       |            | BLISTER W16 330 = R          |
| FKP 3 = FKP3         | 450 VDC = H0   | 6800 pF = 1680       | 2.5x7x10 PCM 7.5 = 2A      |            | BLISTER W24 330 = T          |
| MKS 4 = MKS4         | 600 VDC = I0   | 0.01 $\mu$ F = 2100  | 3x8.5x10 PCM 7.5 = 2B      |            | Bulk Mini = M                |
| MKM 4 = MKM4         | 630 VDC = J0   | 0.022 $\mu$ F = 2220 | 3x9x13 PCM 10 = 3A         |            | Bulk Standard = S            |
| MKP 4 = MKP4         | 700 VDC = K0   | 0.047 $\mu$ F = 2470 | 4x9x13 PCM 10 = 3C         |            | Bulk Maxi = G                |
| MKP 10 = MKP1        | 800 VDC = L0   | 0.1 $\mu$ F = 3100   | 5x11x18 PCM 15 = 4B        |            | TPS Mini = X                 |
| FKP 4 = FKP4         | 850 VDC = M0   | 0.22 $\mu$ F = 3220  | 6x12.5x18 PCM 15 = 4C      |            | TPS Standard = Y             |
| FKP 1 = FKP1         | 900 VDC = N0   | 0.47 $\mu$ F = 3470  | 5x14x26.5 PCM 22.5 = 5A    |            | ...                          |
| MKP-X2 = MKX2        | 1000 VDC = O1  | 1 $\mu$ F = 4100     | 6x15x26.5 PCM 22.5 = 5B    |            |                              |
| MKP-X2 R = MKXR      | 1100 VDC = P0  | 2.2 $\mu$ F = 4220   | 9x19x31.5 PCM 27.5 = 6A    |            |                              |
| MKP-Y2 = MKY2        | 1200 VDC = Q0  | 4.7 $\mu$ F = 4470   | 11x21x31.5 PCM 27.5 = 6B   |            |                              |
| MP 3-X2 = MPX2       | 1250 VDC = R0  | 10 $\mu$ F = 5100    | 9x19x41.5 PCM 37.5 = 7A    |            |                              |
| MP 3-X1 = MPX1       | 1500 VDC = S0  | 22 $\mu$ F = 5220    | 11x22x41.5 PCM 37.5 = 7B   |            |                              |
| MP 3-Y2 = MPY2       | 1600 VDC = T0  | 47 $\mu$ F = 5470    | 94x49x182 DCH_ = H0        |            |                              |
| MP 3R-Y2 = MPRY      | 2000 VDC = U0  | 100 $\mu$ F = 6100   | 94x77x182 DCH_ = H1        |            |                              |
| Snubber MKP = SNMP   | 2500 VDC = V0  | 220 $\mu$ F = 6220   | ...                        |            |                              |
| Snubber FKP = SNFP   | 3000 VDC = W0  | 1 F = A010           |                            |            |                              |
| GTO MKP = GTOM       | 4000 VDC = X0  | 2.5 F = A025         |                            |            |                              |
| DC-LINK MKP 4 = DCP4 | 6000 VDC = Y0  | 50 F = A500          |                            |            |                              |
| DC-LINK MKP C = DCPC | 250 VAC = 0V   | 100 F = B100         |                            |            |                              |
| DC-LINK HC = DCH_    | 275 VAC = 1W   | 110 F = B110         |                            |            |                              |
| SuperCap C = SCSC    | 300 VAC = 2W   | 600 F = B600         |                            |            |                              |
| SuperCap MC = SCMC   | 400 VAC = 3W   | 1200 F = C120        |                            |            |                              |
| SuperCap R = SCSR    | 440 VAC = 4W   | ...                  |                            |            |                              |
| SuperCap MR = SCMR   | 500 VAC = 5W   | ...                  |                            |            |                              |
| ...                  | ...            | ...                  |                            |            |                              |
|                      |                |                      | <b>Special features:</b>   |            | <b>Lead length (untaped)</b> |
|                      |                |                      | Standard = 00              |            | 3.5 $\pm$ 0.5 = C9           |
|                      |                |                      | Version A1 = 1A            |            | 6 -2 = SD                    |
|                      |                |                      | Version A1.1.1 = 1B        |            | 16 -1 = P4                   |
|                      |                |                      | Version A1.2 = 1C          |            | ...                          |
|                      |                |                      | ...                        |            | ...                          |

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.