

**Metallized Polypropylene (PP) - Capacitors for DC-Link Applications.**  
**Capacitances from 1.0  $\mu\text{F}$  to 400  $\mu\text{F}$ .**  
**Rated Voltages from 400 VDC to 1700 VDC.**

## Special Features

- Capacitances up to 400  $\mu\text{F}$
- High volume/capacitance ratio
- Excellent self-healing properties
- Very low dissipation factor
- High reliability
- 2-pin, 4-pin or plate contact configuration
- AEC-Q200 qualified
- According to RoHS 2015/863/EU

## Typical Applications

As intermediate circuit capacitor e.g. in high power converter technology, power supplies, solar inverters, e-mobility (battery chargers, motor drives & power train) etc.

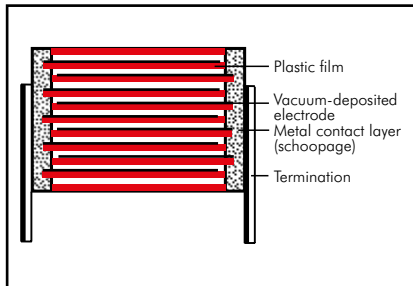
## Construction

**Dielectric:** Polypropylene (PP) film

**Capacitor electrodes:**

Vacuum-deposited

**Internal construction:**



## Encapsulation:

Solvent-resistant, flame-retardant plastic case with epoxy resin seal, UL 94 V-0

**Dissipation factors** at +20° C:  $\tan \delta \times 10^{-4}$

| PCM  | 400 VDC |        | 500 VDC |        | 600 VDC |        | 800 VDC |        | 900 VDC |        | 1000 VDC |        | 1100 VDC |        | 1200 VDC |        | 1300 VDC |        | 1500 VDC |        | 1700 VDC |        |
|------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|--------|
|      | 1 kHz   | 10 kHz | 1 kHz   | 10 kHz | 1 kHz   | 10 kHz | 1 kHz   | 10 kHz | 1 kHz   | 10 kHz | 1 kHz    | 10 kHz | 1 kHz    | 10 kHz | 1 kHz    | 10 kHz | 1 kHz    | 10 kHz | 1 kHz    | 10 kHz | 1 kHz    | 10 kHz |
| 27.5 | 15      | 160    | 15      | 130    | 12      | 120    | 10      | 90     | 10      | 80     | 10       | 70     | 10       | 60     | 8        | 55     | 7        | 50     | 7        | 40     | 7        | 40     |
| 37.5 | 60      | 350    | 30      | 240    | 21      | 150    | 18      | 170    | 16      | 150    | 15       | 120    | 14       | 100    | 13       | 90     | 12       | 90     | 12       | 90     | 10       | 90     |
| 52.5 | 80      | 550    | 80      | 460    | 40      | 300    | 35      | 250    | 31      | 200    | 30       | 190    | 30       | 170    | 28       | 160    | 23       | 150    | 23       | 150    | 23       | 150    |

**Terminations:** Tinned wire or plates.

**Marking:** Colour: Red. Marking: Black.

## Packing

Packing units at the end of the catalogue

For further details and graphs please refer to Technical Information.

## Electrical Data

**Capacitance range:** 1  $\mu\text{F}$  to 400  $\mu\text{F}$  (intermediate values on request)

**Rated voltages:** 400VDC, 500VDC, 600VDC, 800VDC, 900VDC, 1000VDC, 1100VDC, 1200VDC, 1300VDC, 1500VDC, 1700VDC

**Capacitance tolerances:**  $\pm 20\%$ ,  $\pm 10\%$ ,  $\pm 5\%$

**Operating temperature range:** -55° C to +105° C (hot spot including self-heating)

**Climatic test category:** 55/085/56 in accordance with IEC

**Insulation resistance** at +20° C:

$\geq 30\,000$  sec ( $M\Omega \times \mu\text{F}$ )

Measuring voltage: 100 V/1 min.

**Voltage and current derating:**

A derating factor of 1.35% per K must be applied from +85° C for DC voltages and from +70° C for AC currents ( $I_{\text{rms}}$ ). Additionally a derating factor of 4.5% per K must be applied from +85° C for AC currents ( $I_{\text{rms}}$ )

**Reliability:** Operational life > 100 000 hours ( $U_r$  and 70° C)

Failure rate  $\lambda_0$  (0.5 x  $U_r$  and 40° C)

| $\Pi =  C_N [\mu\text{F}] \times U_r [\text{V}] $ | $\lambda_0$ |
|---------------------------------------------------|-------------|
| $\Pi \leq 10\,000$                                | < 2 fit     |
| $10\,000 < \Pi \leq 25\,000$                      | < 5 fit     |
| $25\,000 < \Pi \leq 50\,000$                      | < 10 fit    |
| $50\,000 < \Pi \leq 100\,000$                     | < 20 fit    |
| $\Pi > 100\,000$                                  | < 30 fit    |

**Dielectric absorption:** 0.05 %

**Test voltage:**

$\leq 500$  VDC: 1.5  $U_r$ , 2sec

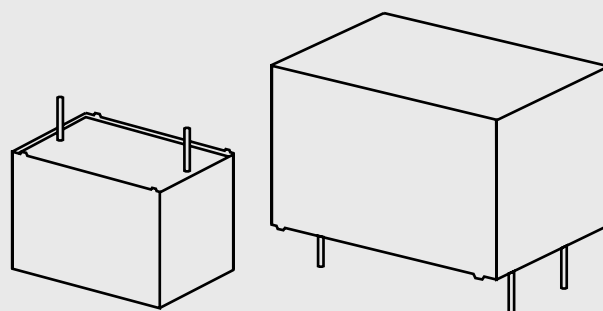
$> 500$  VDC: 1.2  $U_r$ , 2sec

**Specific dissipation:**

| Box size<br>W x H x L in mm | Specific dissipation<br>in Watts per K above the<br>ambient temperature |
|-----------------------------|-------------------------------------------------------------------------|
| 9x19x31.5                   | 0.021                                                                   |
| 11x21x31.5                  | 0.025                                                                   |
| 13x24x31.5                  | 0.030                                                                   |
| 15x26x31.5                  | 0.034                                                                   |
| 17x29x31.5                  | 0.039                                                                   |
| 17x34.5x31.5                | 0.044                                                                   |
| 20x39.5x31.5                | 0.053                                                                   |
| 13x24x41.5                  | 0.037                                                                   |
| 15x26x41.5                  | 0.042                                                                   |
| 17x29x41.5                  | 0.048                                                                   |
| 19x32x41.5                  | 0.054                                                                   |
| 20x39.5x41.5                | 0.065                                                                   |
| 24x45.5x41.5                | 0.080                                                                   |
| 28x38x41.5                  | 0.076                                                                   |
| 31x46x41.5                  | 0.092                                                                   |
| 35x50x41.5                  | 0.106                                                                   |
| 40x55x41.5                  | 0.123                                                                   |
| 25x45x57                    | 0.102                                                                   |
| 30x45x57                    | 0.113                                                                   |
| 35x50x57                    | 0.132                                                                   |
| 45x55x57                    | 0.164                                                                   |
| 45x65x57                    | 0.184                                                                   |

## Maximum pulse rise time:

| PCM  | max. pulse rise time V/ $\mu\text{sec}$ at $T_A < 40^\circ\text{C}$ |        |        |        |        |         |         |         |         |         |         |  |
|------|---------------------------------------------------------------------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|--|
|      | 400VDC                                                              | 500VDC | 600VDC | 800VDC | 900VDC | 1000VDC | 1100VDC | 1200VDC | 1300VDC | 1500VDC | 1700VDC |  |
| 27.5 | 11                                                                  | 15     | 27     | 29     | 35     | 39      | 43      | 46      | 50      | 59      | 64      |  |
| 37.5 | 8                                                                   | 10     | 19     | 21     | 22     | 25      | 29      | 32      | 35      | 41      | 45      |  |
| 52.5 | 5                                                                   | 7      | 13     | 15     | 18     | 19      | 21      | 23      | 25      | 29      | 32      |  |



## Continuation

### General Data

| Capacitance | 400 VDC (70° C) / 300 VDC (85° C) / 220 VDC (105° C) |      |      |       |     |                     |                                   |                     | Part number  |
|-------------|------------------------------------------------------|------|------|-------|-----|---------------------|-----------------------------------|---------------------|--------------|
|             | W                                                    | H    | L    | PCM** | Pin | I <sub>S</sub><br>A | I <sub>rms</sub> * (10 kHz)*<br>A | ESR (10 kHz)*<br>mΩ |              |
| 1 µF        | 9                                                    | 19   | 31.5 | 27.5  | 2   | 11                  | 1                                 | 238.7               | DCP4G041006A |
| 2 "         | 9                                                    | 19   | 31.5 | 27.5  | 2   | 22                  | 1.5                               | 119.4               | DCP4G042006A |
| 3 "         | 9                                                    | 19   | 31.5 | 27.5  | 2   | 33                  | 1.5                               | 79.6                | DCP4G043006A |
| 4 "         | 9                                                    | 19   | 31.5 | 27.5  | 2   | 44                  | 2                                 | 59.7                | DCP4G044006A |
| 5 "         | 9                                                    | 19   | 31.5 | 27.5  | 2   | 55                  | 2                                 | 47.7                | DCP4G045006A |
| 7 "         | 9                                                    | 19   | 31.5 | 27.5  | 2   | 77                  | 2.5                               | 34.1                | DCP4G047006A |
| 10 µF       | 11                                                   | 21   | 31.5 | 27.5  | 2/4 | 110                 | 3.5                               | 23.9                | DCP4G051006B |
| 15 "        | 13                                                   | 24   | 31.5 | 27.5  | 2/4 | 165                 | 4.5                               | 15.9                | DCP4G051506D |
| 20 "        | 15                                                   | 26   | 31.5 | 27.5  | 2/4 | 220                 | 5.5                               | 11.9                | DCP4G052006F |
| 22 "        | 17                                                   | 29   | 31.5 | 27.5  | 2/4 | 242                 | 6                                 | 9.8                 | DCP4G052206G |
| 25 "        | 17                                                   | 29   | 31.5 | 27.5  | 2/4 | 275                 | 7                                 | 8.6                 | DCP4G052506G |
|             | 15                                                   | 26   | 41.5 | 37.5  | 2/4 | 200                 | 6.5                               | 10                  | DCP4G052507D |
| 30 "        | 17                                                   | 34.5 | 31.5 | 27.5  | 2/4 | 330                 | 8                                 | 7.2                 | DCP4G053006I |
|             | 17                                                   | 29   | 41.5 | 37.5  | 2/4 | 240                 | 7.5                               | 8.5                 | DCP4G053007E |
| 40 "        | 20                                                   | 39.5 | 31.5 | 27.5  | 2/4 | 440                 | 10                                | 5.4                 | DCP4G054006J |
|             | 19                                                   | 32   | 41.5 | 37.5  | 2/4 | 320                 | 9.5                               | 6                   | DCP4G054007F |
| 50 "        | 20                                                   | 39.5 | 41.5 | 37.5  | 2/4 | 400                 | 11                                | 5.4                 | DCP4G055007G |
| 60 "        | 20                                                   | 39.5 | 41.5 | 37.5  | 2/4 | 480                 | 11.5                              | 4.8                 | DCP4G056007G |
| 70 "        | 24                                                   | 45.5 | 41.5 | 37.5  | 2/4 | 560                 | 13                                | 4.7                 | DCP4G057007H |
| 80 "        | 24                                                   | 45.5 | 41.5 | 37.5  | 2/4 | 640                 | 14                                | 4.1                 | DCP4G058007H |
| 90 "        | 24                                                   | 45.5 | 41.5 | 37.5  | 2/4 | 720                 | 15                                | 3.6                 | DCP4G059007H |
|             | 28                                                   | 38   | 41.5 | 37.5  | 2/4 | 720                 | 15                                | 3.6                 | DCP4G059007L |
| 100 µF      | 31                                                   | 46   | 41.5 | 37.5  | 2/4 | 800                 | 18                                | 2.8                 | DCP4G061007I |
| 120 "       | 31                                                   | 46   | 41.5 | 37.5  | 2/4 | 960                 | 20                                | 2.3                 | DCP4G061207I |
| 140 "       | 35                                                   | 50   | 41.5 | 37.5  | 2/4 | 1120                | 22.5                              | 2.1                 | DCP4G061407J |
| 150 "       | 35                                                   | 50   | 41.5 | 37.5  | 2/4 | 1200                | 23                                | 2                   | DCP4G061507J |
|             | 25                                                   | 45   | 57   | 52.5  | 4   | 750                 | 20                                | 2.6                 | DCP4G061509D |
| 160 "       | 40                                                   | 55   | 41.5 | 37.5  | 2/4 | 1280                | 24.5                              | 2                   | DCP4G061607K |
|             | 25                                                   | 45   | 57   | 52.5  | 4   | 800                 | 21                                | 2.3                 | DCP4G061609D |
| 180 "       | 40                                                   | 55   | 41.5 | 37.5  | 2/4 | 1440                | 26                                | 1.8                 | DCP4G061807K |
|             | 30                                                   | 45   | 57   | 52.5  | 4   | 900                 | 23.5                              | 2                   | DCP4G061809E |
| 200 "       | 40                                                   | 55   | 41.5 | 37.5  | 2/4 | 1600                | 27.5                              | 1.6                 | DCP4G062007K |
|             | 30                                                   | 45   | 57   | 52.5  | 4   | 1000                | 25                                | 1.8                 | DCP4G062009E |
| 220 "       | 35                                                   | 50   | 57   | 52.5  | 4   | 1100                | 27                                | 1.8                 | DCP4G062209F |
| 250 "       | 45                                                   | 55   | 57   | 52.5  | 4   | 1250                | 32                                | 1.6                 | DCP4G062509H |
| 270 "       | 45                                                   | 55   | 57   | 52.5  | 4   | 1350                | 33.5                              | 1.5                 | DCP4G062709H |
| 300 "       | 45                                                   | 55   | 57   | 52.5  | 4   | 1500                | 35                                | 1.3                 | DCP4G063009H |
| 330 "       | 45                                                   | 65   | 57   | 52.5  | 4   | 1650                | 37                                | 1.2                 | DCP4G063309J |
| 350 "       | 45                                                   | 65   | 57   | 52.5  | 4   | 1750                | 40                                | 1.1                 | DCP4G063509J |
| 370 "       | 45                                                   | 65   | 57   | 52.5  | 4   | 1850                | 41.5                              | 1.1                 | DCP4G063709J |
| 400 "       | 45                                                   | 65   | 57   | 52.5  | 4   | 2000                | 43                                | 1                   | DCP4G064009J |

\* General guide

\* Permissible I<sub>rms</sub> at 10° C internal temperature rise (general guide)

\*\* PCM = Printed circuit module = pin spacing

Dims. in mm.

#### Part number completion:

|                             |       |      |
|-----------------------------|-------|------|
| Version code:               | 2-pin | = D2 |
|                             | 4-pin | = D4 |
| Tolerance:                  | 20 %  | = M  |
|                             | 10 %  | = K  |
|                             | 5 %   | = J  |
| Packing:                    | bulk  | = S  |
| Pin length:                 | 6-2   | = SD |
| Taped version see page 151. |       |      |

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## Continuation

### General Data

| Capacitance | 500 VDC (70° C) / 400 VDC (85° C) / 290 VDC (105° C) |      |      |       |     |                     |                                   |                     | Part number  |
|-------------|------------------------------------------------------|------|------|-------|-----|---------------------|-----------------------------------|---------------------|--------------|
|             | W                                                    | H    | L    | PCM** | Pin | I <sub>s</sub><br>A | I <sub>rms</sub> * (10 kHz)*<br>A | ESR (10 kHz)*<br>mΩ |              |
| 1 µF        | 9                                                    | 19   | 31.5 | 27.5  | 2   | 15                  | 1                                 | 238.7               | DCP4H141006A |
| 2 "         | 9                                                    | 19   | 31.5 | 27.5  | 2   | 30                  | 1.5                               | 119.4               | DCP4H142006A |
| 3 "         | 9                                                    | 19   | 31.5 | 27.5  | 2   | 45                  | 1.5                               | 79.6                | DCP4H143006A |
| 4 "         | 9                                                    | 19   | 31.5 | 27.5  | 2   | 60                  | 1.8                               | 63.7                | DCP4H144006A |
| 5 "         | 9                                                    | 19   | 31.5 | 27.5  | 2   | 75                  | 2.5                               | 47.7                | DCP4H145006A |
| 7 "         | 11                                                   | 21   | 31.5 | 27.5  | 2/4 | 105                 | 3                                 | 34.1                | DCP4H147006B |
| 8 "         | 13                                                   | 24   | 31.5 | 27.5  | 2/4 | 120                 | 3                                 | 29.8                | DCP4H148006D |
| 10 µF       | 13                                                   | 24   | 31.5 | 27.5  | 2/4 | 150                 | 4                                 | 23.9                | DCP4H151006D |
| 12 "        | 15                                                   | 26   | 31.5 | 27.5  | 2/4 | 180                 | 4                                 | 19.9                | DCP4H151206F |
| 15 "        | 17                                                   | 29   | 31.5 | 27.5  | 2/4 | 225                 | 5                                 | 15.9                | DCP4H151506G |
|             | 15                                                   | 26   | 41.5 | 37.5  | 2/4 | 150                 | 4.3                               | 22.3                | DCP4H151507D |
| 18 "        | 17                                                   | 29   | 31.5 | 27.5  | 2/4 | 270                 | 6                                 | 9.5                 | DCP4H151806G |
| 20 "        | 17                                                   | 34.5 | 31.5 | 27.5  | 2/4 | 300                 | 6                                 | 11.9                | DCP4H152006I |
|             | 17                                                   | 29   | 41.5 | 37.5  | 2/4 | 200                 | 5.4                               | 16.8                | DCP4H152007E |
| 22 "        | 20                                                   | 39.5 | 31.5 | 27.5  | 2/4 | 330                 | 7                                 | 10.9                | DCP4H152206J |
| 25 "        | 20                                                   | 39.5 | 31.5 | 27.5  | 2/4 | 375                 | 7.5                               | 9.5                 | DCP4H152506J |
|             | 19                                                   | 32   | 41.5 | 37.5  | 2/4 | 250                 | 6.3                               | 13.4                | DCP4H152507F |
| 30 "        | 20                                                   | 39.5 | 41.5 | 37.5  | 2/4 | 300                 | 9                                 | 7.9                 | DCP4H153007G |
| 35 "        | 20                                                   | 39.5 | 41.5 | 37.5  | 2/4 | 350                 | 8.5                               | 9.1                 | DCP4H153507G |
| 40 "        | 20                                                   | 39.5 | 41.5 | 37.5  | 2/4 | 400                 | 10                                | 5.7                 | DCP4H154007G |
| 50 "        | 24                                                   | 45.5 | 41.5 | 37.5  | 2/4 | 500                 | 13                                | 4.8                 | DCP4H155007H |
|             | 28                                                   | 38   | 41.5 | 37.5  | 2/4 | 500                 | 13                                | 4.8                 | DCP4H155007L |
| 55 "        | 24                                                   | 45.5 | 41.5 | 37.5  | 2/4 | 550                 | 14                                | 4                   | DCP4H155507H |
|             | 28                                                   | 38   | 41.5 | 37.5  | 2/4 | 550                 | 14                                | 4                   | DCP4H155507L |
| 60 "        | 31                                                   | 46   | 41.5 | 37.5  | 2/4 | 600                 | 14                                | 4.7                 | DCP4H156007I |
| 70 "        | 31                                                   | 46   | 41.5 | 37.5  | 2/4 | 700                 | 16.5                              | 3.9                 | DCP4H157007I |
| 80 "        | 31                                                   | 46   | 41.5 | 37.5  | 2/4 | 800                 | 17.5                              | 3.4                 | DCP4H158007I |
| 90 "        | 35                                                   | 50   | 41.5 | 37.5  | 2/4 | 900                 | 19                                | 3                   | DCP4H159007J |
| 100 µF      | 35                                                   | 50   | 41.5 | 37.5  | 2/4 | 1000                | 20                                | 2.7                 | DCP4H161007J |
|             | 25                                                   | 45   | 57   | 52.5  | 4   | 700                 | 14.3                              | 5                   | DCP4H161009D |
| 120 "       | 40                                                   | 55   | 41.5 | 37.5  | 2/4 | 1200                | 22.5                              | 2.7                 | DCP4H161207K |
|             | 30                                                   | 45   | 57   | 52.5  | 4   | 840                 | 16.5                              | 4.2                 | DCP4H161209E |
| 130 "       | 40                                                   | 55   | 41.5 | 37.5  | 2/4 | 1300                | 23                                | 2.4                 | DCP4H161307K |
| 140 "       | 35                                                   | 50   | 57   | 52.5  | 4   | 980                 | 21.5                              | 2.8                 | DCP4H161409F |
| 150 "       | 35                                                   | 50   | 57   | 52.5  | 4   | 1050                | 22.5                              | 2.7                 | DCP4H161509F |
| 160 "       | 45                                                   | 55   | 57   | 52.5  | 4   | 1120                | 25.5                              | 2.5                 | DCP4H161609H |
| 180 "       | 45                                                   | 55   | 57   | 52.5  | 4   | 1260                | 27                                | 2.2                 | DCP4H161809H |
| 200 "       | 45                                                   | 55   | 57   | 52.5  | 4   | 1400                | 28.5                              | 2                   | DCP4H162009H |
| 210 "       | 45                                                   | 55   | 57   | 52.5  | 4   | 1470                | 29.5                              | 1.9                 | DCP4H162109H |
| 220 "       | 45                                                   | 65   | 57   | 52.5  | 4   | 1540                | 32                                | 1.8                 | DCP4H162209J |
| 240 "       | 45                                                   | 65   | 57   | 52.5  | 4   | 1680                | 33.5                              | 1.7                 | DCP4H162409J |

\* General guide

\* Permissible I<sub>rms</sub> at 10° C internal temperature rise (general guide)

\*\* PCM = Printed circuit module = pin spacing

Dims. in mm.

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| Part number completion:     |       |      |
|-----------------------------|-------|------|
| Version code:               | 2-pin | = D2 |
|                             | 4-pin | = D4 |
| Tolerance:                  | 20 %  | = M  |
|                             | 10 %  | = K  |
|                             | 5 %   | = J  |
| Packing:                    | bulk  | = S  |
| Pin length:                 | 6-2   | = SD |
| Taped version see page 151. |       |      |

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## Continuation

### General Data

| Capacitance | 600 VDC (70° C) / 450 VDC (85° C) / 320 VDC (105° C) |      |      |       |     |                     |                                  |                     |              |
|-------------|------------------------------------------------------|------|------|-------|-----|---------------------|----------------------------------|---------------------|--------------|
|             | W                                                    | H    | L    | PCM** | Pin | I <sub>S</sub><br>A | I <sub>rms</sub> *(10 kHz)*<br>A | ESR (10 kHz)*<br>mΩ | Part number  |
| 1 μF        | 9                                                    | 19   | 31.5 | 27.5  | 2   | 27                  | 1.5                              | 106.9               | DCP4I041006A |
| 2 "         | 9                                                    | 19   | 31.5 | 27.5  | 2   | 54                  | 2                                | 56                  | DCP4I042006A |
| 3 "         | 9                                                    | 19   | 31.5 | 27.5  | 2   | 81                  | 2.5                              | 35.6                | DCP4I043006A |
| 4 "         | 11                                                   | 21   | 31.5 | 27.5  | 2/4 | 108                 | 3                                | 26.7                | DCP4I044006B |
| 5 "         | 13                                                   | 24   | 31.5 | 27.5  | 2/4 | 135                 | 3.5                              | 22                  | DCP4I045006D |
| 7 "         | 15                                                   | 26   | 31.5 | 27.5  | 2/4 | 189                 | 4.5                              | 16                  | DCP4I047006F |
| 8 "         | 15                                                   | 26   | 31.5 | 27.5  | 2/4 | 216                 | 5                                | 13.4                | DCP4I048006F |
| 10 μF       | 17                                                   | 29   | 31.5 | 27.5  | 2/4 | 270                 | 6                                | 11                  | DCP4I051006G |
|             | 13                                                   | 24   | 41.5 | 37.5  | 2/4 | 190                 | 5                                | 17.6                | DCP4I051007C |
| 12 "        | 17                                                   | 29   | 31.5 | 27.5  | 2/4 | 324                 | 6.5                              | 8.9                 | DCP4I051206G |
| 15 "        | 17                                                   | 34.5 | 31.5 | 27.5  | 2/4 | 405                 | 8                                | 7                   | DCP4I051506I |
|             | 17                                                   | 29   | 41.5 | 37.5  | 2/4 | 285                 | 6.5                              | 11.8                | DCP4I051507E |
| 18 "        | 20                                                   | 39.5 | 31.5 | 27.5  | 2/2 | 486                 | 9.5                              | 5.9                 | DCP4I051806J |
| 20 "        | 20                                                   | 39.5 | 31.5 | 27.5  | 2/4 | 540                 | 10                               | 5.3                 | DCP4I052006J |
|             | 19                                                   | 32   | 41.5 | 37.5  | 2/4 | 380                 | 10.5                             | 4.9                 | DCP4I052007F |
| 22 "        | 20                                                   | 39.5 | 41.5 | 37.5  | 2/4 | 418                 | 11                               | 5.4                 | DCP4I052207G |
| 25 "        | 20                                                   | 39.5 | 41.5 | 37.5  | 2/4 | 475                 | 11.5                             | 5                   | DCP4I052507G |
| 30 "        | 24                                                   | 45.5 | 41.5 | 37.5  | 2/4 | 570                 | 14                               | 4.1                 | DCP4I053007H |
| 35 "        | 24                                                   | 45.5 | 41.5 | 37.5  | 2/4 | 665                 | 14.5                             | 3.8                 | DCP4I053507H |
|             | 28                                                   | 38   | 41.5 | 37.5  | 2/4 | 665                 | 14.5                             | 3.8                 | DCP4I053507L |
| 40 "        | 31                                                   | 46   | 41.5 | 37.5  | 2/4 | 760                 | 16.5                             | 3.3                 | DCP4I054007I |
| 45 "        | 31                                                   | 46   | 41.5 | 37.5  | 2/4 | 855                 | 17                               | 3.2                 | DCP4I054507I |
| 50 "        | 35                                                   | 50   | 41.5 | 37.5  | 2/4 | 950                 | 19                               | 2.9                 | DCP4I055007J |
| 60 "        | 35                                                   | 50   | 41.5 | 37.5  | 2/4 | 1140                | 17.5                             | 3.4                 | DCP4I056007J |
|             | 25                                                   | 45   | 57   | 52.5  | 2/4 | 780                 | 14.5                             | 4.9                 | DCP4I056009D |
| 70 "        | 40                                                   | 55   | 41.5 | 37.5  | 2/4 | 1330                | 20                               | 3.1                 | DCP4I057007K |
|             | 30                                                   | 45   | 57   | 52.5  | 4   | 910                 | 16.5                             | 4.2                 | DCP4I057009E |
| 80 "        | 40                                                   | 55   | 41.5 | 37.5  | 2/4 | 1520                | 22                               | 2.6                 | DCP4I058007K |
|             | 30                                                   | 45   | 57   | 52.5  | 4   | 1040                | 17.8                             | 3.6                 | DCP4I058009E |
| 90 "        | 35                                                   | 50   | 57   | 52.5  | 4   | 1170                | 23.5                             | 1.9                 | DCP4I059009F |
| 100 μF      | 45                                                   | 55   | 57   | 52.5  | 4   | 1300                | 25                               | 2.6                 | DCP4I061009H |
| 120 "       | 45                                                   | 65   | 57   | 52.5  | 4   | 1560                | 28                               | 2.3                 | DCP4I061209J |
| 140 "       | 45                                                   | 65   | 57   | 52.5  | 4   | 1820                | 31                               | 1.9                 | DCP4I061409J |
| 150 "       | 45                                                   | 65   | 57   | 52.5  | 4   | 1950                | 33                               | 1.7                 | DCP4I061509J |

\* General guide

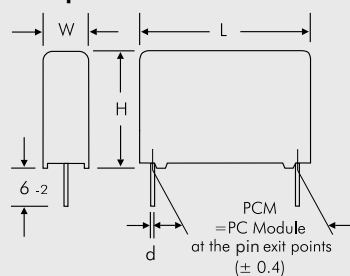
\* Permissible I<sub>rms</sub> at 10° C internal temperature rise (general guide)

\*\* PCM = Printed circuit module = pin spacing

Dims. in mm.

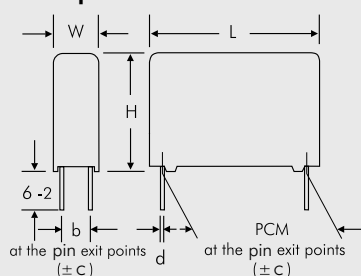
| Part number completion:     |            |
|-----------------------------|------------|
| Version code:               | 2-pin = D2 |
|                             | 4-pin = D4 |
| Tolerance:                  | 20 % = M   |
|                             | 10 % = K   |
|                             | 5 % = J    |
| Packing:                    | bulk = S   |
| Pin length:                 | 6-2 = SD   |
| Taped version see page 151. |            |

#### 2-pin version



| PCM  | Ø d |
|------|-----|
| 27.5 | 0.8 |
| 37.5 | 1   |

#### 4-pin version



| W  | PCM  | b    | Ø d | c   |
|----|------|------|-----|-----|
| 11 | 27.5 | 5    | 0.8 | 0.4 |
| 13 | 27.5 | 7.5  | 0.8 | 0.4 |
| 15 | 27.5 | 7.5  | 0.8 | 0.4 |
| 17 | 27.5 | 10   | 0.8 | 0.4 |
| 20 | 27.5 | 12.5 | 0.8 | 0.4 |
| 19 | 37.5 | 10   | 1   | 0.4 |
| 20 | 37.5 | 12.5 | 1   | 0.4 |
| 24 | 37.5 | 12.5 | 1   | 0.4 |
| 28 | 37.5 | 10   | 1   | 0.4 |
| 31 | 37.5 | 20   | 1   | 0.4 |
| 35 | 37.5 | 20   | 1   | 0.4 |
| 40 | 37.5 | 20   | 1   | 0.4 |
| 25 | 52.5 | 12.5 | 1.2 | 0.8 |
| 30 | 52.5 | 20   | 1.2 | 0.8 |
| 35 | 52.5 | 20   | 1.2 | 0.8 |
| 45 | 52.5 | 20   | 1.2 | 0.8 |

Plate versions page 136

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## Continuation

### General Data

| Capacitance | W  | H    | L    | PCM** | Pin | $I_s$<br>A | $I_{rms}^*$ (10 kHz)*<br>A | ESR (10 kHz)*<br>mΩ | Part number  |
|-------------|----|------|------|-------|-----|------------|----------------------------|---------------------|--------------|
| 1 μF        | 9  | 19   | 31.5 | 27.5  | 2   | 29         | 1.7                        | 73.2                | DCP4L041006A |
| 2 "         | 9  | 19   | 31.5 | 27.5  | 2   | 58         | 2.5                        | 36.6                | DCP4L042006A |
| 3 "         | 11 | 21   | 31.5 | 27.5  | 2/4 | 87         | 3                          | 24.4                | DCP4L043006B |
| 4 "         | 13 | 24   | 31.5 | 27.5  | 2/4 | 116        | 4                          | 18.3                | DCP4L044006D |
| 5 "         | 13 | 24   | 31.5 | 27.5  | 2/4 | 145        | 4.5                        | 14.6                | DCP4L045006D |
| 7 "         | 17 | 29   | 31.5 | 27.5  | 2/4 | 203        | 6                          | 10.5                | DCP4L047006G |
| 8 "         | 17 | 29   | 31.5 | 27.5  | 2/4 | 232        | 6.5                        | 9.2                 | DCP4L048006G |
| 10 μF       | 17 | 34.5 | 31.5 | 27.5  | 2/4 | 290        | 8                          | 7.3                 | DCP4L051006I |
|             | 17 | 29   | 41.5 | 37.5  | 2/4 | 210        | 7.5                        | 8.5                 | DCP4L051007E |
| 12 "        | 20 | 39.5 | 31.5 | 27.5  | 2/4 | 348        | 9.5                        | 6.1                 | DCP4L051206J |
| 15 "        | 20 | 39.5 | 31.5 | 27.5  | 2/4 | 435        | 10.5                       | 4.9                 | DCP4L051506J |
|             | 19 | 32   | 41.5 | 37.5  | 2/4 | 315        | 8.5                        | 7.5                 | DCP4L051507F |
| 18 "        | 20 | 39.5 | 41.5 | 37.5  | 2/4 | 378        | 9.5                        | 7.2                 | DCP4L051807G |
| 20 "        | 20 | 39.5 | 41.5 | 37.5  | 2/4 | 420        | 10                         | 6.2                 | DCP4L052007G |
| 22 "        | 20 | 39.5 | 41.5 | 37.5  | 2/4 | 462        | 10.5                       | 5.9                 | DCP4L052207G |
| 25 "        | 24 | 45.5 | 41.5 | 37.5  | 2/4 | 525        | 12.5                       | 5                   | DCP4L052507H |
| 30 "        | 24 | 45.5 | 41.5 | 37.5  | 2/4 | 630        | 14                         | 4.1                 | DCP4L053007H |
|             | 28 | 38   | 41.5 | 37.5  | 2/4 | 630        | 14                         | 4.1                 | DCP4L053007L |
| 35 "        | 31 | 46   | 41.5 | 37.5  | 2/4 | 735        | 15.5                       | 3.8                 | DCP4L053507I |
| 40 "        | 31 | 46   | 41.5 | 37.5  | 2/4 | 840        | 16.5                       | 3.3                 | DCP4L054007I |
| 45 "        | 35 | 50   | 41.5 | 37.5  | 2/4 | 945        | 17.5                       | 3.4                 | DCP4L054507J |
| 50 "        | 35 | 50   | 41.5 | 37.5  | 2/4 | 1050       | 19                         | 3                   | DCP4L055007J |
|             | 25 | 45   | 57   | 52.5  | 4   | 750        | 18.5                       | 3                   | DCP4L055009D |
| 60 "        | 40 | 55   | 41.5 | 37.5  | 2/4 | 1260       | 21.5                       | 2.7                 | DCP4L056007K |
|             | 30 | 45   | 57   | 52.5  | 4   | 900        | 20.5                       | 2.7                 | DCP4L056009E |
| 65 "        | 35 | 50   | 57   | 52.5  | 4   | 975        | 22.5                       | 2.2                 | DCP4L056509F |
| 70 "        | 45 | 55   | 57   | 52.5  | 4   | 1050       | 23.5                       | 3                   | DCP4L057009H |
| 75 "        | 45 | 55   | 57   | 52.5  | 4   | 1125       | 24                         | 2.9                 | DCP4L057509H |
| 80 "        | 45 | 55   | 57   | 52.5  | 4   | 1200       | 24.5                       | 3                   | DCP4L058009H |
| 90 "        | 45 | 65   | 57   | 52.5  | 4   | 1350       | 25.5                       | 2.5                 | DCP4L059009J |
| 100 μF      | 45 | 65   | 57   | 52.5  | 4   | 1500       | 26.5                       | 2.3                 | DCP4L061009J |
| 115 "       | 45 | 65   | 57   | 52.5  | 4   | 1725       | 28                         | 2.1                 | DCP4L061159J |

\* General guide

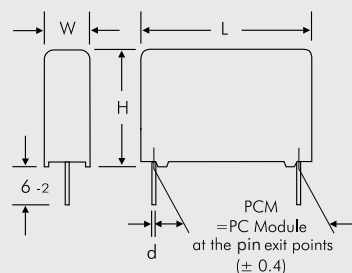
\* Permissible  $I_{rms}$  at 10° C internal temperature rise (general guide)

\*\* PCM = Printed circuit module = pin spacing

Dims. in mm.

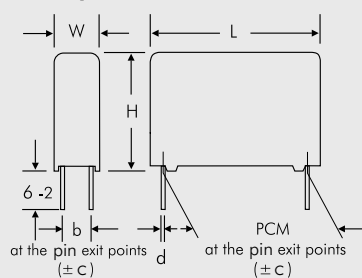
| Part number completion:     |            |
|-----------------------------|------------|
| Version code:               | 2-pin = D2 |
|                             | 4-pin = D4 |
| Tolerance:                  | 20 % = M   |
|                             | 10 % = K   |
|                             | 5 % = J    |
| Packing:                    | bulk = S   |
| Pin length:                 | 6-2 = SD   |
| Taped version see page 151. |            |

#### 2-pin version



| PCM  | Ø d |
|------|-----|
| 27.5 | 0.8 |
| 37.5 | 1   |

#### 4-pin version



| W  | PCM  | b    | Ø d | c   |
|----|------|------|-----|-----|
| 11 | 27.5 | 5    | 0.8 | 0.4 |
| 13 | 27.5 | 7.5  | 0.8 | 0.4 |
| 15 | 27.5 | 7.5  | 0.8 | 0.4 |
| 17 | 27.5 | 10   | 0.8 | 0.4 |
| 20 | 27.5 | 12.5 | 0.8 | 0.4 |
| 19 | 37.5 | 10   | 1   | 0.4 |
| 20 | 37.5 | 12.5 | 1   | 0.4 |
| 24 | 37.5 | 12.5 | 1   | 0.4 |
| 28 | 37.5 | 10   | 1   | 0.4 |
| 31 | 37.5 | 20   | 1   | 0.4 |
| 35 | 37.5 | 20   | 1   | 0.4 |
| 40 | 37.5 | 20   | 1   | 0.4 |
| 25 | 52.5 | 12.5 | 1.2 | 0.8 |
| 30 | 52.5 | 20   | 1.2 | 0.8 |
| 35 | 52.5 | 20   | 1.2 | 0.8 |
| 45 | 52.5 | 20   | 1.2 | 0.8 |

Plate versions page 136

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## Continuation

### General Data

| Capacitance | 900 VDC (70° C) / 760 VDC (85° C) / 550 VDC (105° C) |      |      |       |     |                     |                                   |                     | Part number       |
|-------------|------------------------------------------------------|------|------|-------|-----|---------------------|-----------------------------------|---------------------|-------------------|
|             | W                                                    | H    | L    | PCM** | Pin | I <sub>S</sub><br>A | I <sub>rms</sub> * (10 kHz)*<br>A | ESR (10 kHz)*<br>mΩ |                   |
| 1 µF        | 9                                                    | 19   | 31.5 | 27.5  | 2   | 35                  | 2                                 | 66.1                | DCP4N041006A_____ |
| 2 "         | 11                                                   | 21   | 31.5 | 27.5  | 2/4 | 70                  | 2.5                               | 44                  | DCP4N042006B_____ |
| 3 "         | 13                                                   | 24   | 31.5 | 27.5  | 2/4 | 105                 | 4                                 | 22                  | DCP4N043006D_____ |
| 4 "         | 13                                                   | 24   | 31.5 | 27.5  | 2/4 | 140                 | 4.5                               | 16.5                | DCP4N044006D_____ |
| 5 "         | 17                                                   | 29   | 31.5 | 27.5  | 2/4 | 175                 | 4.5                               | 18                  | DCP4N045006G_____ |
| 7 "         | 17                                                   | 29   | 31.5 | 27.5  | 2/4 | 245                 | 6.5                               | 9.4                 | DCP4N047006G_____ |
| 8 "         | 17                                                   | 34.5 | 31.5 | 27.5  | 2/4 | 280                 | 7.5                               | 8.3                 | DCP4N048006I_____ |
| 10 µF       | 20                                                   | 39.5 | 31.5 | 27.5  | 2/4 | 350                 | 10                                | 5.3                 | DCP4N051006J_____ |
|             | 19                                                   | 32   | 41.5 | 37.5  | 2/4 | 220                 | 9                                 | 6.7                 | DCP4N051007F_____ |
| 15 "        | 20                                                   | 39.5 | 41.5 | 37.5  | 2/4 | 330                 | 10.5                              | 5.8                 | DCP4N051507G_____ |
| 20 "        | 24                                                   | 45.5 | 41.5 | 37.5  | 2/4 | 440                 | 13                                | 4.8                 | DCP4N052007H_____ |
|             | 28                                                   | 38   | 41.5 | 37.5  | 2/4 | 440                 | 13                                | 4.8                 | DCP4N052007L_____ |
| 22 "        | 24                                                   | 45.5 | 41.5 | 37.5  | 2/4 | 484                 | 14                                | 4.1                 | DCP4N052207H_____ |
|             | 28                                                   | 38   | 41.5 | 37.5  | 2/4 | 484                 | 14                                | 4.1                 | DCP4N052207L_____ |
| 25 "        | 31                                                   | 46   | 41.5 | 37.5  | 2/4 | 550                 | 15.5                              | 3.8                 | DCP4N052507I_____ |
| 30 "        | 31                                                   | 46   | 41.5 | 37.5  | 2/4 | 660                 | 16.5                              | 3.4                 | DCP4N053007I_____ |
|             | 25                                                   | 45   | 57   | 52.5  | 4   | 540                 | 15                                | 4.5                 | DCP4N053009D_____ |
| 35 "        | 35                                                   | 50   | 41.5 | 37.5  | 2/4 | 770                 | 18                                | 3.2                 | DCP4N053507J_____ |
|             | 25                                                   | 45   | 57   | 52.5  | 4   | 630                 | 16                                | 4                   | DCP4N053509D_____ |
| 40 "        | 40                                                   | 55   | 41.5 | 37.5  | 2/4 | 880                 | 19.5                              | 3.2                 | DCP4N054007K_____ |
|             | 30                                                   | 45   | 57   | 52.5  | 4   | 720                 | 18                                | 3.5                 | DCP4N054009E_____ |
| 50 "        | 35                                                   | 50   | 57   | 52.5  | 4   | 900                 | 22                                | 3.3                 | DCP4N055009F_____ |
| 60 "        | 45                                                   | 55   | 57   | 52.5  | 4   | 1080                | 23                                | 3                   | DCP4N056009H_____ |
| 70 "        | 45                                                   | 65   | 57   | 52.5  | 4   | 1260                | 24.5                              | 3.3                 | DCP4N057009J_____ |
| 80 "        | 45                                                   | 65   | 57   | 52.5  | 4   | 1440                | 25.5                              | 2.8                 | DCP4N058009J_____ |

\* General guide

\* Permissible I<sub>rms</sub> at 10° C internal temperature rise (general guide)

\*\* PCM = Printed circuit module = pin spacing

Dims. in mm.

| Part number completion:     |       |      |
|-----------------------------|-------|------|
| Version code:               | 2-pin | = D2 |
|                             | 4-pin | = D4 |
| Tolerance:                  | 20 %  | = M  |
|                             | 10 %  | = K  |
|                             | 5 %   | = J  |
| Packing:                    | bulk  | = S  |
| Pin length:                 | 6-2   | = SD |
| Taped version see page 151. |       |      |

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Continuation page 129

## Continuation

### General Data

| Capacitance | 1000 VDC (70° C) / 840 VDC (85° C) / 600 VDC (105° C) |      |      |       |     |                     |                                   |                     | Part number       |
|-------------|-------------------------------------------------------|------|------|-------|-----|---------------------|-----------------------------------|---------------------|-------------------|
|             | W                                                     | H    | L    | PCM** | Pin | I <sub>S</sub><br>A | I <sub>rms</sub> * (10 kHz)*<br>A | ESR (10 kHz)*<br>mΩ |                   |
| 1 µF        | 9                                                     | 19   | 31.5 | 27.5  | 2   | 39                  | 2                                 | 76                  | DCP4O141006A_____ |
| 2 "         | 11                                                    | 21   | 31.5 | 27.5  | 2/4 | 78                  | 2.5                               | 33                  | DCP4O142006B_____ |
| 3 "         | 13                                                    | 24   | 31.5 | 27.5  | 2/4 | 117                 | 4                                 | 18                  | DCP4O143006D_____ |
| 4 "         | 15                                                    | 26   | 31.5 | 27.5  | 2/4 | 156                 | 5                                 | 14                  | DCP4O144006F_____ |
| 5 "         | 17                                                    | 29   | 31.5 | 27.5  | 2/4 | 195                 | 5.5                               | 13                  | DCP4O145006G_____ |
|             | 15                                                    | 26   | 41.5 | 37.5  | 2/4 | 125                 | 6                                 | 11                  | DCP4O145007D_____ |
| 7 "         | 17                                                    | 34.5 | 31.5 | 27.5  | 2/4 | 273                 | 6.5                               | 11                  | DCP4O147006I_____ |
|             | 17                                                    | 29   | 41.5 | 37.5  | 2/4 | 175                 | 7                                 | 9                   | DCP4O147007E_____ |
| 8 "         | 20                                                    | 39.5 | 31.5 | 27.5  | 2/4 | 312                 | 7.5                               | 9                   | DCP4O148006J_____ |
|             | 17                                                    | 29   | 41.5 | 37.5  | 2/4 | 200                 | 8                                 | 8                   | DCP4O148007E_____ |
| 10 µF       | 20                                                    | 39.5 | 31.5 | 27.5  | 2/4 | 390                 | 8                                 | 8                   | DCP4O151006J_____ |
|             | 20                                                    | 39.5 | 41.5 | 37.5  | 2/4 | 250                 | 9                                 | 7                   | DCP4O151007G_____ |
| 15 "        | 28                                                    | 38   | 41.5 | 37.5  | 2/4 | 375                 | 11.5                              | 5.7                 | DCP4O151507L_____ |
|             | 24                                                    | 45.5 | 41.5 | 37.5  | 2/4 | 375                 | 11.5                              | 5.7                 | DCP4O151507H_____ |
| 20 "        | 31                                                    | 46   | 41.5 | 37.5  | 2/4 | 500                 | 14                                | 4.8                 | DCP4O152007I_____ |
| 22 "        | 31                                                    | 46   | 41.5 | 37.5  | 2/4 | 550                 | 14.5                              | 4.3                 | DCP4O152207I_____ |
| 25 "        | 31                                                    | 46   | 41.5 | 37.5  | 2/4 | 625                 | 15                                | 4                   | DCP4O152507I_____ |
|             | 25                                                    | 45   | 57   | 52.5  | 4   | 475                 | 14.5                              | 4.8                 | DCP4O152509D_____ |
| 30 "        | 35                                                    | 50   | 41.5 | 37.5  | 2/4 | 750                 | 16.5                              | 3.9                 | DCP4O153007J_____ |
|             | 25                                                    | 45   | 57   | 52.5  | 4   | 570                 | 15                                | 4.5                 | DCP4O153009D_____ |
| 35 "        | 40                                                    | 55   | 41.5 | 37.5  | 2/4 | 875                 | 18                                | 3.8                 | DCP4O153507K_____ |
|             | 30                                                    | 45   | 57   | 52.5  | 4   | 665                 | 16.5                              | 4                   | DCP4O153509E_____ |
| 40 "        | 40                                                    | 55   | 41.5 | 37.5  | 2/4 | 1000                | 18.5                              | 3.7                 | DCP4O154007K_____ |
|             | 35                                                    | 50   | 57   | 52.5  | 4   | 760                 | 18                                | 4                   | DCP4O154009F_____ |
| 45 "        | 35                                                    | 50   | 57   | 52.5  | 4   | 855                 | 18.5                              | 3.9                 | DCP4O154509F_____ |
| 50 "        | 45                                                    | 55   | 57   | 52.5  | 4   | 950                 | 21                                | 3.8                 | DCP4O155009H_____ |
| 55 "        | 45                                                    | 55   | 57   | 52.5  | 4   | 1045                | 21.5                              | 3.6                 | DCP4O155509H_____ |
| 60 "        | 45                                                    | 55   | 57   | 52.5  | 4   | 1140                | 22.5                              | 3.3                 | DCP4O156009H_____ |
| 65 "        | 45                                                    | 55   | 57   | 52.5  | 4   | 1235                | 22.5                              | 3.3                 | DCP4O156509H_____ |
| 70 "        | 45                                                    | 65   | 57   | 52.5  | 4   | 1330                | 24                                | 3.2                 | DCP4O157009J_____ |
| 75 "        | 45                                                    | 65   | 57   | 52.5  | 4   | 1425                | 24.5                              | 3.1                 | DCP4O157509J_____ |

\* General guide

New range

\* Permissible I<sub>rms</sub> at 10° C internal temperature rise (general guide)

\*\* PCM = Printed circuit module = pin spacing

Dims. in mm.

Rights reserved to amend design data without prior notification.

Part number completion:

|                            |       |      |
|----------------------------|-------|------|
| Version code:              | 2-pin | = D2 |
|                            | 4-pin | = D4 |
| Tolerance:                 | 20 %  | = M  |
|                            | 10 %  | = K  |
|                            | 5 %   | = J  |
| Packing:                   | bulk  | = S  |
| Pin length:                | 6-2   | = SD |
| Taped version see page 151 |       |      |

Continuation page 130

## Continuation

### General Data

| Capacitance | W  | H    | L    | PCM** | Pin | $I_s$<br>A | $I_{rms}$ * (10 kHz)*<br>A | ESR (10 kHz)*<br>mΩ | Part number       |
|-------------|----|------|------|-------|-----|------------|----------------------------|---------------------|-------------------|
| 1 µF        | 9  | 19   | 31.5 | 27.5  | 2   | 43         | 2                          | 86                  | DCP4P041006A_____ |
| 2 "         | 13 | 24   | 31.5 | 27.5  | 2/4 | 86         | 4                          | 19                  | DCP4P042006D_____ |
| 3 "         | 15 | 26   | 31.5 | 27.5  | 2/4 | 129        | 5                          | 13.6                | DCP4P043006F_____ |
| 4 "         | 17 | 29   | 31.5 | 27.5  | 2/4 | 172        | 6                          | 10.8                | DCP4P044006G_____ |
| 5 "         | 17 | 34.5 | 31.5 | 27.5  | 2/4 | 215        | 7.5                        | 7.8                 | DCP4P045006I_____ |
| 7 "         | 20 | 39.5 | 31.5 | 27.5  | 2/4 | 301        | 9                          | 6.5                 | DCP4P047006J_____ |
|             | 19 | 32   | 41.5 | 37.5  | 2/4 | 203        | 7.5                        | 10                  | DCP4P047007F_____ |
| 8 "         | 20 | 39.5 | 41.5 | 37.5  | 2/4 | 232        | 8                          | 10                  | DCP4P048007G_____ |
| 10 µF       | 20 | 39.5 | 41.5 | 37.5  | 2/4 | 290        | 9.5                        | 7.2                 | DCP4P051007G_____ |
| 12 "        | 24 | 45.5 | 41.5 | 37.5  | 2/4 | 348        | 11                         | 6.6                 | DCP4P051207H_____ |
| 15 "        | 24 | 45.5 | 41.5 | 37.5  | 2/4 | 435        | 12                         | 5.6                 | DCP4P051507H_____ |
|             | 28 | 38   | 41.5 | 37.5  | 2/4 | 435        | 12                         | 5.6                 | DCP4P051507L_____ |
| 18 "        | 31 | 46   | 41.5 | 37.5  | 2/4 | 522        | 13.5                       | 5                   | DCP4P051807I_____ |
| 20 "        | 35 | 50   | 41.5 | 37.5  | 2/4 | 580        | 15                         | 4.7                 | DCP4P052007J_____ |
|             | 25 | 45   | 57   | 52.5  | 4   | 420        | 14.5                       | 4.9                 | DCP4P052009D_____ |
| 22 "        | 35 | 50   | 41.5 | 37.5  | 2/4 | 638        | 15.5                       | 4.4                 | DCP4P052207J_____ |
|             | 25 | 45   | 57   | 52.5  | 4   | 462        | 15                         | 4.5                 | DCP4P052209D_____ |
| 25 "        | 40 | 55   | 41.5 | 37.5  | 2/4 | 725        | 16.5                       | 4.6                 | DCP4P052507K_____ |
|             | 30 | 45   | 57   | 52.5  | 4   | 525        | 16                         | 4.4                 | DCP4P052509E_____ |
| 30 "        | 35 | 50   | 57   | 52.5  | 4   | 630        | 17.5                       | 4.4                 | DCP4P053009F_____ |
| 35 "        | 35 | 50   | 57   | 52.5  | 4   | 735        | 18                         | 4                   | DCP4P053509F_____ |
| 40 "        | 35 | 50   | 57   | 52.5  | 4   | 840        | 18                         | 4.3                 | DCP4P054009F_____ |
| 45 "        | 45 | 55   | 57   | 52.5  | 4   | 945        | 20                         | 4.1                 | DCP4P054509H_____ |
| 50 "        | 45 | 65   | 57   | 52.5  | 4   | 1050       | 21                         | 4.1                 | DCP4P055009J_____ |
| 60 "        | 45 | 65   | 57   | 52.5  | 4   | 1260       | 23                         | 3.5                 | DCP4P056009J_____ |

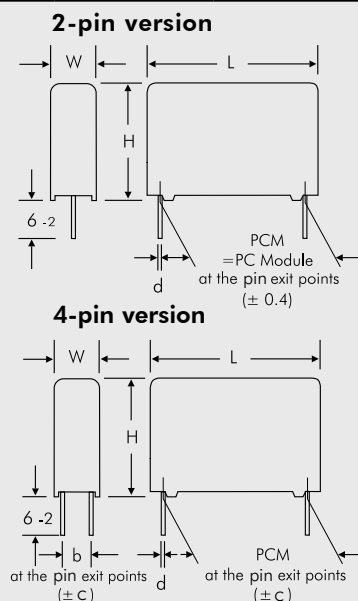
\* General guide

\* Permissible  $I_{rms}$  at 10° C internal temperature rise (general guide)

\*\* PCM = Printed circuit module = pin spacing

Dims. in mm.

| Part number completion:    |                                 |
|----------------------------|---------------------------------|
| Version code:              | 2-pin = D2<br>4-pin = D4        |
| Tolerance:                 | 20 % = M<br>10 % = K<br>5 % = J |
| Packing:                   | bulk = S                        |
| Pin length:                | 6-2 = SD                        |
| Taped version see page 151 |                                 |



| PCM  | Ø d |
|------|-----|
| 27.5 | 0.8 |
| 37.5 | 1   |

| W  | PCM  | b    | Ø d | c   |
|----|------|------|-----|-----|
| 11 | 27.5 | 5    | 0.8 | 0.4 |
| 13 | 27.5 | 7.5  | 0.8 | 0.4 |
| 15 | 27.5 | 7.5  | 0.8 | 0.4 |
| 17 | 27.5 | 10   | 0.8 | 0.4 |
| 20 | 27.5 | 12.5 | 0.8 | 0.4 |
| 19 | 37.5 | 10   | 1   | 0.4 |
| 20 | 37.5 | 12.5 | 1   | 0.4 |
| 24 | 37.5 | 12.5 | 1   | 0.4 |
| 28 | 37.5 | 10   | 1   | 0.4 |
| 31 | 37.5 | 20   | 1   | 0.4 |
| 35 | 37.5 | 20   | 1   | 0.4 |
| 40 | 37.5 | 20   | 1   | 0.4 |
| 25 | 52.5 | 12.5 | 1.2 | 0.8 |
| 30 | 52.5 | 20   | 1.2 | 0.8 |
| 35 | 52.5 | 20   | 1.2 | 0.8 |
| 45 | 52.5 | 20   | 1.2 | 0.8 |

Plate versions page 136

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## Continuation

### General Data

| Capacitance | 1200 VDC (70° C) / 1010 VDC (85° C) / 730 VDC (105° C) |      |      |       |     |                     |                                   |                     | Part number  |
|-------------|--------------------------------------------------------|------|------|-------|-----|---------------------|-----------------------------------|---------------------|--------------|
|             | W                                                      | H    | L    | PCM** | Pin | I <sub>S</sub><br>A | I <sub>rms</sub> * (10 kHz)*<br>A | ESR (10 kHz)*<br>mΩ |              |
| 1 µF        | 9                                                      | 19   | 31.5 | 27.5  | 2   | 46                  | 2                                 | 60                  | DCP4Q041006A |
| 2 "         | 13                                                     | 24   | 31.5 | 27.5  | 2/4 | 92                  | 4                                 | 18                  | DCP4Q042006D |
| 3 "         | 15                                                     | 26   | 31.5 | 27.5  | 2/4 | 138                 | 5.5                               | 12.5                | DCP4Q043006F |
| 4 "         | 17                                                     | 29   | 31.5 | 27.5  | 2/4 | 185                 | 6.2                               | 10.6                | DCP4Q044006G |
| 5 "         | 17                                                     | 34.5 | 31.5 | 27.5  | 2/4 | 230                 | 7                                 | 8.8                 | DCP4Q045006I |
|             | 17                                                     | 29   | 41.5 | 37.5  | 2/4 | 160                 | 6.5                               | 12.2                | DCP4Q045007E |
| 7 "         | 19                                                     | 32   | 41.5 | 37.5  | 2/4 | 224                 | 7.5                               | 10                  | DCP4Q047007F |
| 8 "         | 20                                                     | 39.5 | 41.5 | 37.5  | 2/4 | 256                 | 8                                 | 9.9                 | DCP4Q048007G |
| 10 µF       | 24                                                     | 45.5 | 41.5 | 37.5  | 2/4 | 320                 | 10                                | 7.2                 | DCP4Q051007H |
|             | 28                                                     | 38   | 41.5 | 37.5  | 2/4 | 320                 | 10                                | 7.2                 | DCP4Q051007L |
| 12 "        | 24                                                     | 45.5 | 41.5 | 37.5  | 2/4 | 384                 | 11                                | 6.2                 | DCP4Q051207H |
|             | 28                                                     | 38   | 41.5 | 37.5  | 2/4 | 384                 | 11                                | 6.2                 | DCP4Q051207L |
| 15 "        | 31                                                     | 46   | 41.5 | 37.5  | 2/4 | 480                 | 13                                | 5.3                 | DCP4Q051507I |
| 18 "        | 31                                                     | 46   | 41.5 | 37.5  | 2/4 | 576                 | 14                                | 4.8                 | DCP4Q051807I |
|             | 25                                                     | 45   | 57   | 52.5  | 4   | 414                 | 14.5                              | 4.9                 | DCP4Q051809D |
| 20 "        | 35                                                     | 50   | 41.5 | 37.5  | 2/4 | 640                 | 15.5                              | 4.5                 | DCP4Q052007J |
|             | 25                                                     | 45   | 57   | 52.5  | 4   | 460                 | 15                                | 4.7                 | DCP4Q052009D |
| 22 "        | 35                                                     | 50   | 41.5 | 37.5  | 2/4 | 704                 | 16                                | 4.2                 | DCP4Q052207J |
|             | 30                                                     | 45   | 57   | 52.5  | 4   | 506                 | 15.5                              | 4.5                 | DCP4Q052209E |
| 25 "        | 40                                                     | 55   | 41.5 | 37.5  | 2/4 | 800                 | 17.5                              | 4.1                 | DCP4Q052507K |
|             | 35                                                     | 50   | 57   | 52.5  | 4   | 575                 | 17.5                              | 4.3                 | DCP4Q052509F |
| 30 "        | 40                                                     | 55   | 41.5 | 37.5  | 2/4 | 960                 | 17.5                              | 4                   | DCP4Q053007K |
|             | 35                                                     | 50   | 57   | 52.5  | 4   | 690                 | 17.5                              | 4.2                 | DCP4Q053009F |
| 35 "        | 45                                                     | 55   | 57   | 52.5  | 4   | 805                 | 20                                | 4.1                 | DCP4Q053509H |
| 40 "        | 45                                                     | 55   | 57   | 52.5  | 4   | 920                 | 20                                | 4                   | DCP4Q054009H |
| 45 "        | 45                                                     | 55   | 57   | 52.5  | 4   | 1035                | 20.5                              | 3.9                 | DCP4Q054509H |
| 50 "        | 45                                                     | 65   | 57   | 52.5  | 4   | 1150                | 22                                | 3.8                 | DCP4Q055009J |
|             |                                                        |      |      |       |     |                     |                                   |                     |              |
| Capacitance | 1300 VDC (70° C) / 1100 VDC (85° C) / 800 VDC (105° C) |      |      |       |     |                     |                                   |                     | Part number  |
|             | W                                                      | H    | L    | PCM** | Pin | I <sub>S</sub><br>A | I <sub>rms</sub> * (10 kHz)*<br>A | ESR (10 kHz)*<br>mΩ |              |
| 1 µF        | 11                                                     | 21   | 31.5 | 27.5  | 2/4 | 50                  | 2.5                               | 40                  | DCP4R241006B |
| 2 "         | 15                                                     | 26   | 31.5 | 27.5  | 2/4 | 100                 | 4.5                               | 16.8                | DCP4R242006F |
| 3 "         | 17                                                     | 29   | 31.5 | 27.5  | 2/4 | 150                 | 6                                 | 10.8                | DCP4R243006G |
| 4 "         | 17                                                     | 34.5 | 31.5 | 27.5  | 2/4 | 200                 | 6.5                               | 10.4                | DCP4R244006I |
| 5 "         | 20                                                     | 39.5 | 31.5 | 27.5  | 2/4 | 250                 | 7.5                               | 9.4                 | DCP4R245006J |
|             | 19                                                     | 32   | 41.5 | 37.5  | 2/4 | 175                 | 7                                 | 11                  | DCP4R245007F |
| 7 "         | 20                                                     | 39.5 | 41.5 | 37.5  | 2/4 | 245                 | 8                                 | 10                  | DCP4R247007G |
| 8 "         | 24                                                     | 45.5 | 41.5 | 37.5  | 2/4 | 280                 | 9                                 | 9.9                 | DCP4R248007H |
| 10 µF       | 24                                                     | 45.5 | 41.5 | 37.5  | 2/4 | 350                 | 10.5                              | 7.2                 | DCP4R251007H |
|             | 28                                                     | 38   | 41.5 | 37.5  | 2/4 | 350                 | 10.5                              | 7.2                 | DCP4R251007L |
| 15 "        | 31                                                     | 46   | 41.5 | 37.5  | 2/4 | 525                 | 14                                | 4.8                 | DCP4R251507I |
|             | 25                                                     | 45   | 57   | 52.5  | 4   | 375                 | 13                                | 6                   | DCP4R251509D |
| 18 "        | 35                                                     | 50   | 41.5 | 37.5  | 2/4 | 630                 | 15.5                              | 4.4                 | DCP4R251807J |
|             | 25                                                     | 45   | 57   | 52.5  | 4   | 450                 | 14.5                              | 4.9                 | DCP4R251809D |
| 20 "        | 40                                                     | 55   | 41.5 | 37.5  | 2/4 | 700                 | 17.5                              | 4                   | DCP4R252007K |
|             | 30                                                     | 45   | 57   | 52.5  | 4   | 500                 | 16                                | 4.4                 | DCP4R252009E |
| 22 "        | 40                                                     | 55   | 41.5 | 37.5  | 2/4 | 770                 | 18                                | 3.8                 | DCP4R252207K |
|             | 35                                                     | 50   | 57   | 52.5  | 4   | 550                 | 17.5                              | 4.3                 | DCP4R252209F |
| 25 "        | 35                                                     | 50   | 57   | 52.5  | 4   | 625                 | 19                                | 3.6                 | DCP4R252509F |
| 30 "        | 45                                                     | 55   | 57   | 52.5  | 4   | 750                 | 20                                | 4                   | DCP4R253009H |
| 35 "        | 45                                                     | 65   | 57   | 52.5  | 4   | 875                 | 21                                | 4.1                 | DCP4R253509J |
| 40 "        | 45                                                     | 65   | 57   | 52.5  | 4   | 1000                | 22                                | 3.7                 | DCP4R254009J |

\* General guide

Dims. in mm.

■ New range

\*\* PCM = Printed circuit module = pin spacing

\* Permissible I<sub>rms</sub> at 10° C internal temperature rise (general guide)

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## Continuation

### General Data

| Capacitance | 1500 VDC (70° C) / 1200 VDC (85° C) / 870 VDC (105° C) |      |      |       |     |                     |                                   |                     | Part number  |
|-------------|--------------------------------------------------------|------|------|-------|-----|---------------------|-----------------------------------|---------------------|--------------|
|             | W                                                      | H    | L    | PCM** | Pin | I <sub>S</sub><br>A | I <sub>rms</sub> * (10 kHz)*<br>A | ESR (10 kHz)*<br>mΩ |              |
| 1 µF        | 13                                                     | 24   | 31.5 | 27.5  | 2/4 | 59                  | 3                                 | 33.3                | DCP4S041006D |
| 2 "         | 17                                                     | 29   | 31.5 | 27.5  | 2/4 | 118                 | 5                                 | 15.6                | DCP4S042006G |
| 3 "         | 19                                                     | 32   | 41.5 | 37.5  | 2/4 | 123                 | 6                                 | 15                  | DCP4S043007F |
| 4 "         | 20                                                     | 39.5 | 41.5 | 37.5  | 2/4 | 164                 | 7                                 | 13.3                | DCP4S044007G |
| 5 "         | 20                                                     | 39.5 | 41.5 | 37.5  | 2/4 | 205                 | 8                                 | 10.2                | DCP4S045007G |
| 7 "         | 24                                                     | 45.5 | 41.5 | 37.5  | 2/4 | 287                 | 9.5                               | 8.9                 | DCP4S047007H |
|             | 28                                                     | 38   | 41.5 | 37.5  | 2/4 | 287                 | 9.5                               | 8.4                 | DCP4S047007L |
| 8 "         | 31                                                     | 46   | 41.5 | 37.5  | 2/4 | 328                 | 11                                | 7.6                 | DCP4S048007L |
| 10 µF       | 31                                                     | 46   | 41.5 | 37.5  | 2/4 | 410                 | 12.5                              | 5.9                 | DCP4S051007I |
| 12 "        | 35                                                     | 50   | 41.5 | 37.5  | 2/4 | 492                 | 14.5                              | 5                   | DCP4S051207J |
|             | 25                                                     | 45   | 57   | 52.5  | 4   | 348                 | 14                                | 5.2                 | DCP4S051209D |
| 15 "        | 40                                                     | 55   | 41.5 | 37.5  | 2/4 | 615                 | 17                                | 4.3                 | DCP4S051507K |
|             | 30                                                     | 45   | 57   | 52.5  | 4   | 435                 | 16                                | 4.4                 | DCP4S051509E |
| 18 "        | 35                                                     | 50   | 57   | 52.5  | 4   | 522                 | 17.5                              | 4.3                 | DCP4S051809F |
| 20 "        | 35                                                     | 50   | 57   | 52.5  | 4   | 580                 | 18                                | 4.1                 | DCP4S052009F |
| 22 "        | 45                                                     | 55   | 57   | 52.5  | 4   | 638                 | 20                                | 4.1                 | DCP4S052209H |
| 25 "        | 45                                                     | 55   | 57   | 52.5  | 4   | 725                 | 20.5                              | 3.9                 | DCP4S052509H |
| 30 "        | 45                                                     | 65   | 57   | 52.5  | 4   | 870                 | 21.5                              | 4                   | DCP4S053009J |

| Capacitance | 1700 VDC (70° C) / 1350 VDC (85° C) / 950 VDC (105° C) |      |      |       |     |                     |                                   |                     | Part number  |
|-------------|--------------------------------------------------------|------|------|-------|-----|---------------------|-----------------------------------|---------------------|--------------|
|             | W                                                      | H    | L    | PCM** | Pin | I <sub>S</sub><br>A | I <sub>rms</sub> * (10 kHz)*<br>A | ESR (10 kHz)*<br>mΩ |              |
| 1 µF        | 13                                                     | 24   | 31.5 | 27.5  | 2/4 | 65                  | 3                                 | 28                  | DCP4TA41006D |
| 2 "         | 17                                                     | 34.5 | 31.5 | 27.5  | 2/4 | 125                 | 5                                 | 15                  | DCP4TA42006I |
|             | 17                                                     | 29   | 41.5 | 37.5  | 2/4 | 100                 | 5                                 | 17                  | DCP4TA42007E |
| 3 "         | 20                                                     | 39.5 | 31.5 | 27.5  | 2/4 | 160                 | 6                                 | 13                  | DCP4TA43006J |
|             | 19                                                     | 32   | 41.5 | 37.5  | 2/4 | 140                 | 6                                 | 15                  | DCP4TA43007F |
| 4 "         | 20                                                     | 39.5 | 41.5 | 37.5  | 2/4 | 185                 | 7                                 | 12                  | DCP4TA44007G |
| 5 "         | 24                                                     | 45.5 | 41.5 | 37.5  | 2/4 | 230                 | 9                                 | 9                   | DCP4TA45007H |
|             | 28                                                     | 38   | 41.5 | 37.5  | 2/4 | 230                 | 9                                 | 9                   | DCP4TA45007L |
| 7 "         | 31                                                     | 46   | 41.5 | 37.5  | 2/4 | 320                 | 10                                | 8.9                 | DCP4TA47007I |
| 8 "         | 31                                                     | 46   | 41.5 | 37.5  | 2/4 | 350                 | 12                                | 5.8                 | DCP4TA48007I |
|             | 25                                                     | 45   | 57   | 52.5  | 4   | 250                 | 13                                | 5.8                 | DCP4TA48009D |
| 10 µF       | 35                                                     | 50   | 41.5 | 37.5  | 2/4 | 450                 | 15                                | 4.6                 | DCP4TA51007J |
|             | 30                                                     | 45   | 57   | 52.5  | 4   | 320                 | 15                                | 4.6                 | DCP4TA51009E |
| 12 "        | 40                                                     | 55   | 41.5 | 37.5  | 2/4 | 530                 | 16                                | 4.5                 | DCP4TA51207K |
|             | 30                                                     | 45   | 57   | 52.5  | 4   | 380                 | 15                                | 4.5                 | DCP4TA51209E |
| 15 "        | 35                                                     | 50   | 57   | 52.5  | 4   | 470                 | 17                                | 4.4                 | DCP4TA51509F |
| 18 "        | 45                                                     | 55   | 57   | 52.5  | 4   | 550                 | 19                                | 4.3                 | DCP4TA51809H |
| 20 "        | 45                                                     | 55   | 57   | 52.5  | 4   | 610                 | 19                                | 4.2                 | DCP4TA52009H |
| 22 "        | 45                                                     | 55   | 57   | 52.5  | 4   | 670                 | 20                                | 4.1                 | DCP4TA52209H |
| 25 "        | 45                                                     | 65   | 57   | 52.5  | 4   | 760                 | 21                                | 4                   | DCP4TA52509J |

\* General guide

New range

\*\* PCM = Printed circuit module = pin spacing

\* Permissible I<sub>rms</sub> at 10° C internal temperature rise (general guide)

| Part number completion:     |                                 |
|-----------------------------|---------------------------------|
| Version code:               | 2-pin = D2<br>4-pin = D4        |
| Tolerance:                  | 20 % = M<br>10 % = K<br>5 % = J |
| Packing:                    | bulk = S                        |
| Pin length:                 | 6-2 = SD                        |
| Taped version see page 151. |                                 |

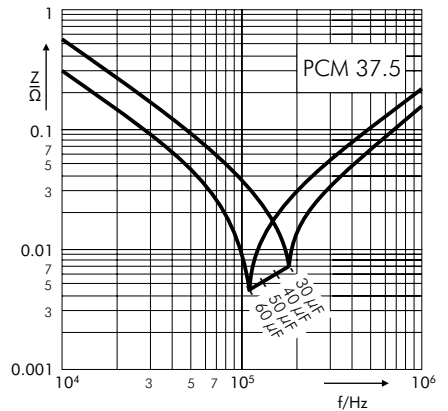
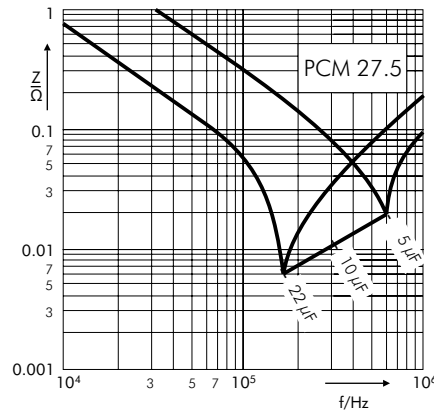
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Continuation page 133

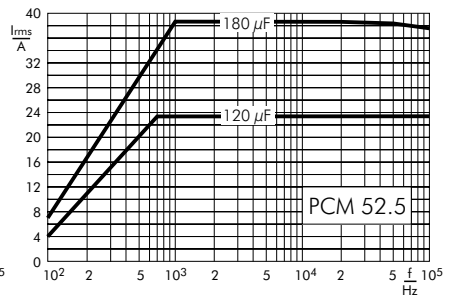
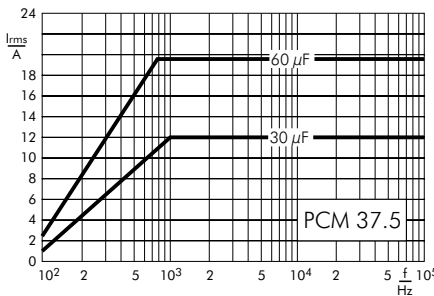
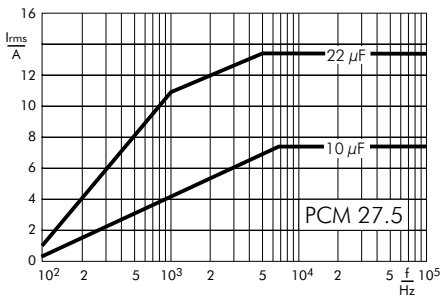
## Continuation

### 500 VDC

Impedance change with frequency  
(general guide)

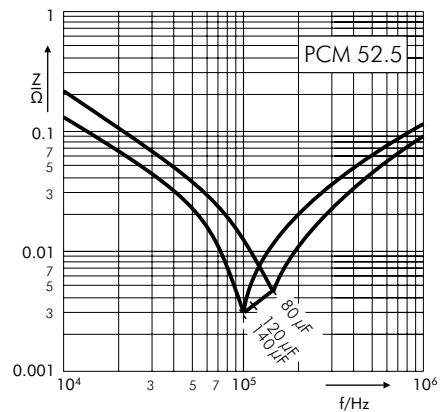
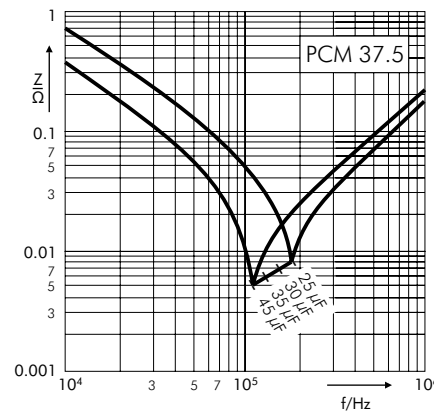


Permissible AC current in relation to  
frequency at  $\leq 20^\circ\text{C}$  internal temperature  
rise (general guide)

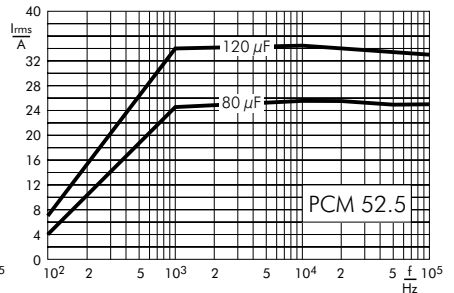
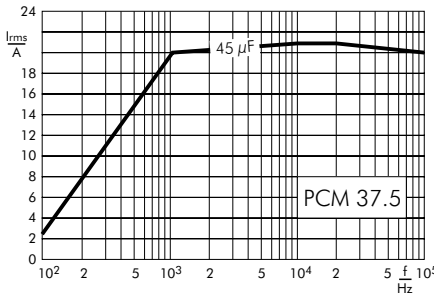


### 600 VDC

Impedance change with frequency  
(general guide)



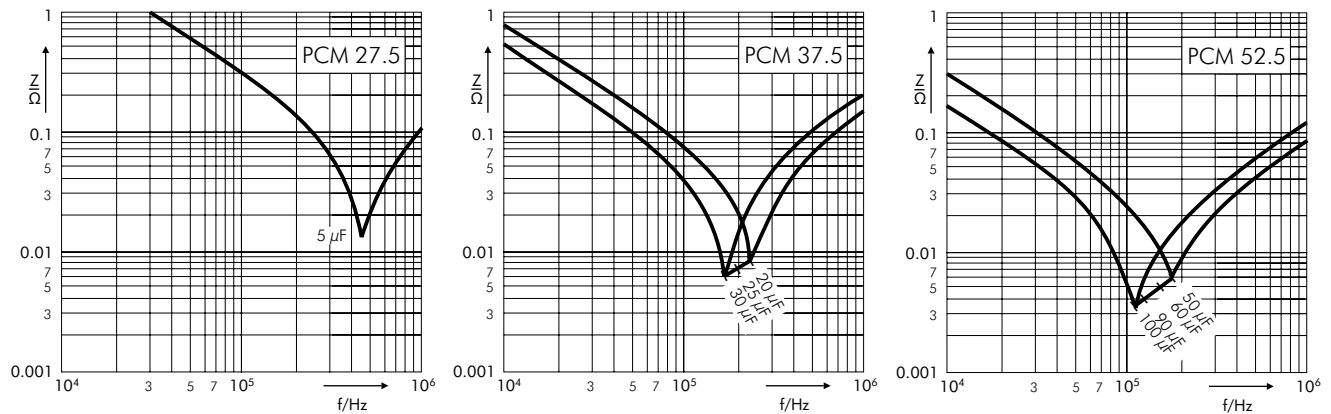
Permissible AC current in relation to  
frequency at  $\leq 20^\circ\text{C}$  internal temperature  
rise (general guide)



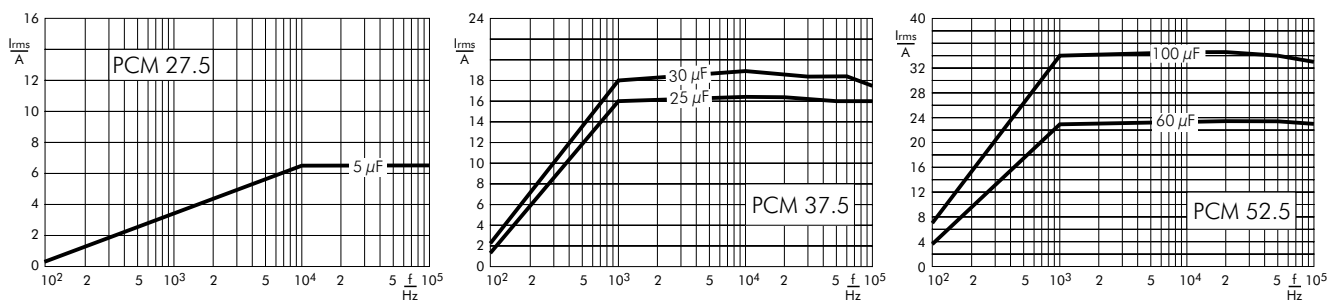
## Continuation

### 800 VDC

Impedance change with frequency (general guide)

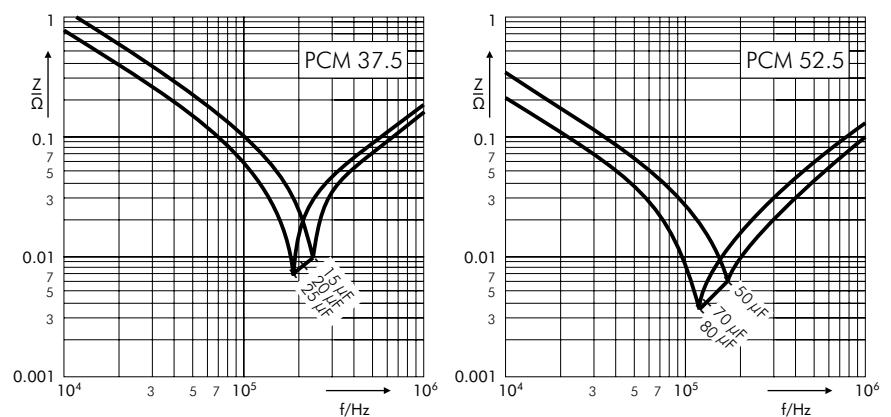


Permissible AC current in relation to frequency at  $\leq 20^\circ \text{C}$  internal temperature rise (general guide)

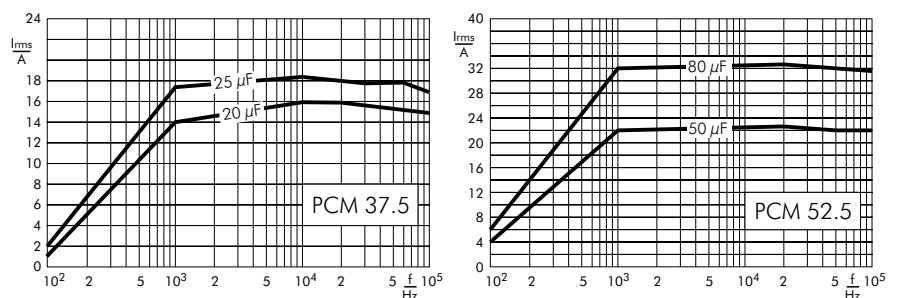


### 900 VDC

Impedance change with frequency (general guide)



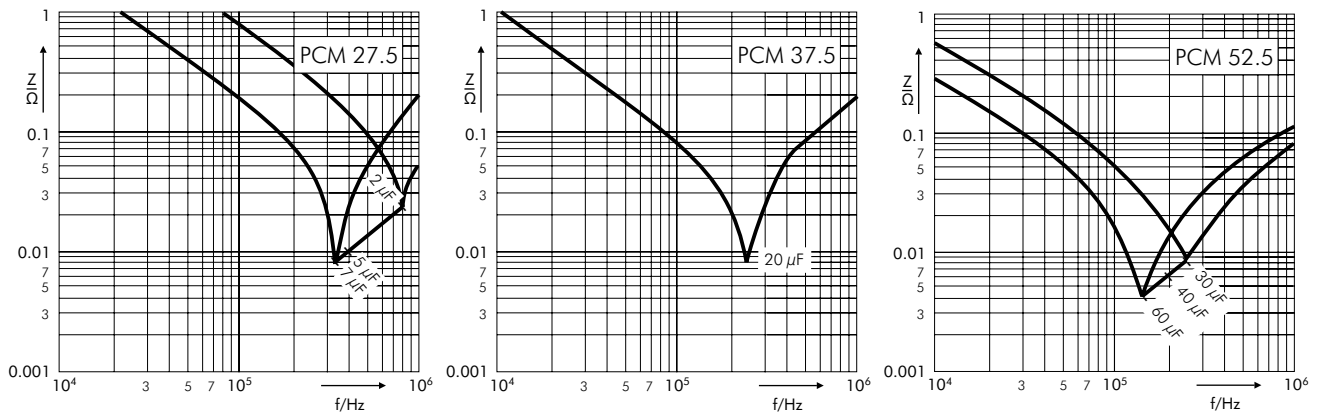
Permissible AC current in relation to frequency at  $\leq 20^\circ \text{C}$  internal temperature rise (general guide)



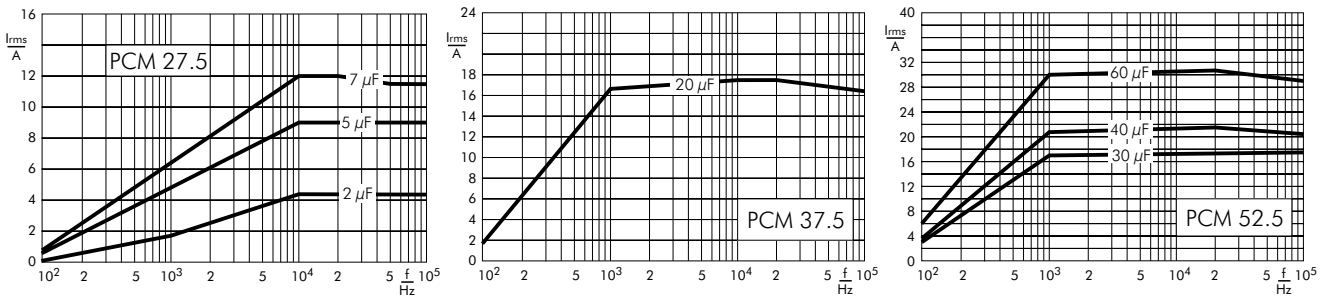
## Continuation

### 1100 VDC

Impedance change with frequency (general guide)

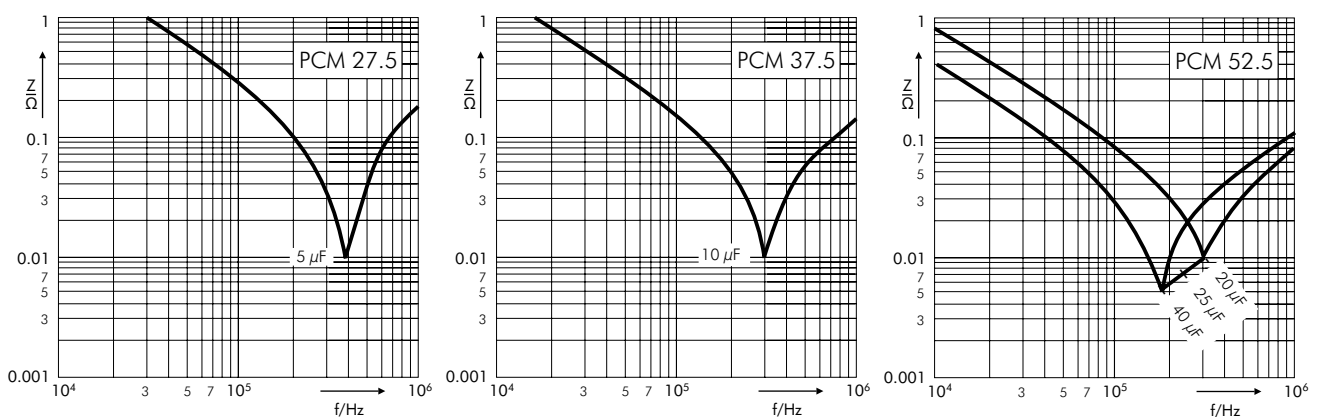


Permissible AC current in relation to frequency at  $\leq 20^\circ \text{C}$  internal temperature rise (general guide)

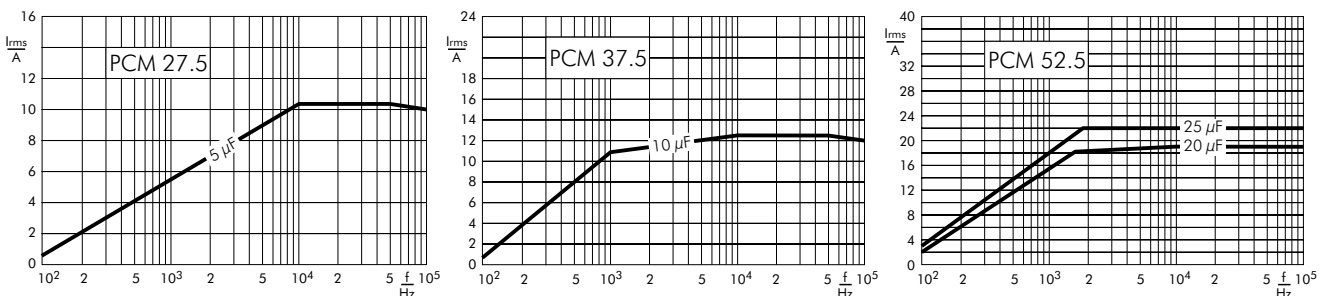


### 1300 VDC

Impedance change with frequency (general guide)

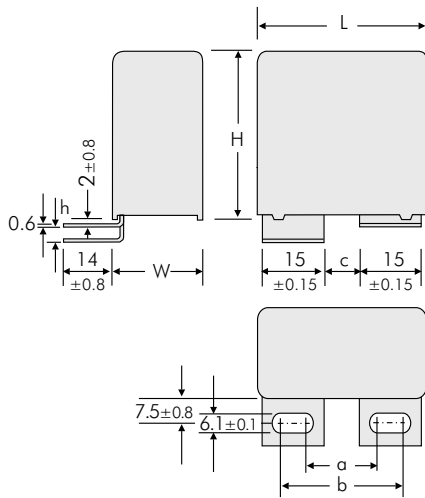


Permissible AC current in relation to frequency at  $\leq 20^\circ \text{C}$  internal temperature rise (general guide)

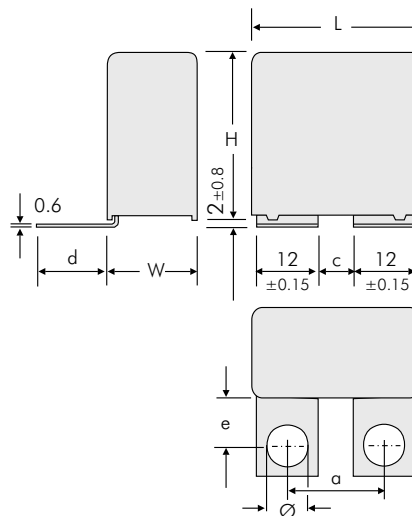


## Continuation

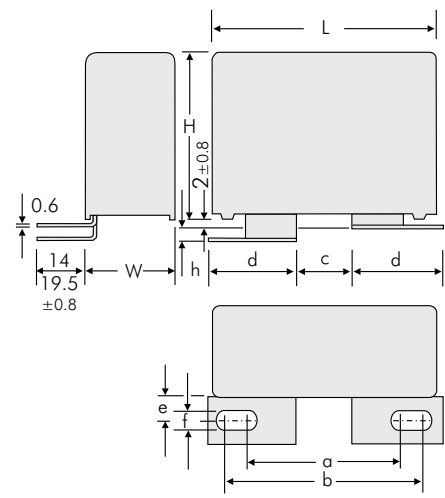
### Plate versions



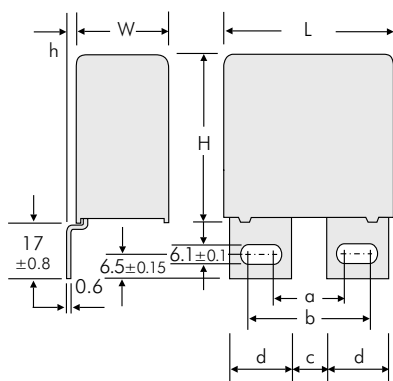
| Version     | L    | a<br>±0.5 | b<br>±0.5 | c<br>±0.5 | h<br>±0.8 |
|-------------|------|-----------|-----------|-----------|-----------|
| <b>A1</b>   | 41.5 | 17.5      | 28        | 7.5       | 0         |
| <b>A1.5</b> | 41.5 | 17.5      | 28        | 7.5       | 3.5       |



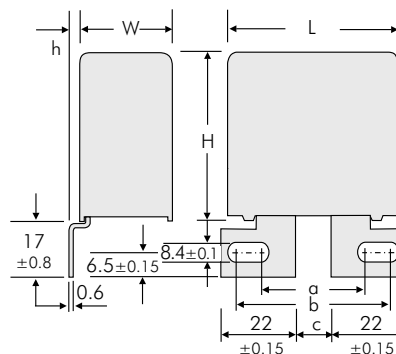
| Version       | L    | a<br>±0.5 | c<br>±0.5 | d<br>±0.8 | e<br>±0.8 | Ø<br>±0.1 |
|---------------|------|-----------|-----------|-----------|-----------|-----------|
| <b>A1.6</b>   | 41.5 | 18        | 6         | 21.5      | 16        | 7         |
| <b>A1.6.1</b> | 41.5 | 22        | 10        | 18.5      | 13        | 7         |
| <b>A1.6.2</b> | 41.5 | 23        | 10        | 18.5      | 13        | 8         |



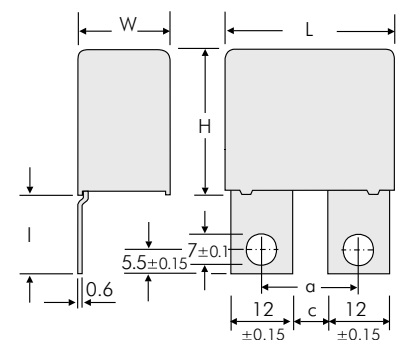
| Version       | L    | a<br>±0.5 | b<br>±0.5 | c<br>±0.5 | d<br>±0.15 | e<br>±0.8 | f<br>±0.1 | h<br>±0.8 |
|---------------|------|-----------|-----------|-----------|------------|-----------|-----------|-----------|
| <b>A2</b>     | 41.5 | 36        | 46.5      | 14.5      | 22         | 7.5       | 8.4       | 0         |
| <b>A2.4.1</b> | 41.5 | 33.5      | 39.5      | 7.5       | 22         | 13        | 8.4       | 0         |
| <b>A2.6.1</b> | 41.5 | 31.5      | 41.5      | 14        | 22         | 13        | 6.1       | 3.5       |
| <b>A2.6.2</b> | 41.5 | 31.5      | 41.5      | 14        | 22         | 13        | 6.1       | 0         |
| <b>A2.8</b>   | 41.5 | 36        | 46.5      | 14.5      | 22         | 7.5       | 8.4       | 3.5       |



| Version      | L    | a<br>±0.5 | b<br>±0.5 | c<br>±0.5 | d<br>±0.15 | h<br>±0.8 |
|--------------|------|-----------|-----------|-----------|------------|-----------|
| <b>A3</b>    | 41.5 | 17.5      | 27.5      | 7.5       | 15         | 0         |
| <b>A3.5</b>  | 41.5 | 17.5      | 27.5      | 7.5       | 15         | 3         |
| <b>A3.12</b> | 41.5 | 17.5      | 30        | 7.5       | 16.5       | 0         |



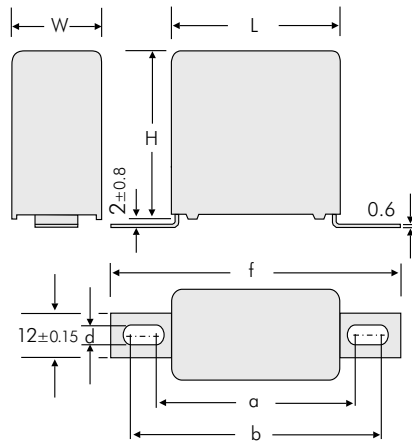
| Version      | L    | a<br>±0.5 | b<br>±0.5 | c<br>±0.5 | h<br>±0.8 |
|--------------|------|-----------|-----------|-----------|-----------|
| <b>A3.9</b>  | 41.5 | 40.5      | 46.5      | 14.5      | 0         |
| <b>A3.11</b> | 41.5 | 40.5      | 46.5      | 14.5      | 3         |



| Version       | L    | a<br>±0.5 | c<br>±0.5 | l<br>±0.8 |
|---------------|------|-----------|-----------|-----------|
| <b>A3.8</b>   | 41.5 | 18        | 6         | 23        |
| <b>A3.8.1</b> | 41.5 | 22        | 10        | 17.5      |
| <b>A3.8.2</b> | 41.5 | 22        | 10        | 23        |

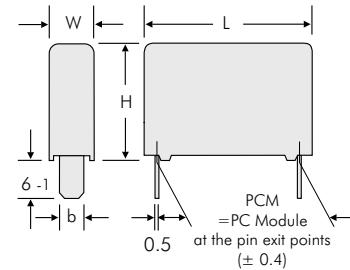
## Continuation

### Plate versions



| Version      | L           | a<br>±0.8 | b<br>±0.8 | f<br>±0.8 | d<br>±0.1 |
|--------------|-------------|-----------|-----------|-----------|-----------|
| <b>A4.9</b>  | 31.5 W ≥ 15 | 44        | 47        | 57        | 4.5       |
| <b>A4.10</b> | 31.5 W ≥ 15 | 43        | 59        | 69        | 6.1       |
| <b>A4.2</b>  | 41.5 W ≥ 15 | 54        | 57        | 67        | 4.5       |
| <b>A4</b>    | 41.5 W ≥ 15 | 53        | 69        | 79        | 6.1       |

Version B Dims. in mm



| L    | PCM  | b<br>±0.15 |
|------|------|------------|
| 31.5 | 28.5 | 8          |
| 41.5 | 38.5 | 8          |

Additional special versions can be realized. Please contact us with your specific needs.

Possible connecting respective plate versions - depending on box size

| Version code     |           | D2    | D4    | B8 | 1A | 1H   | 1I   | 1J     | 1S     | 2A | 2F     | 2J     | 2K     | 2M   | 3A | 3G   | 3K   | 3L     | 3M     | 3N   | 3P    | 3Q    | 4A | 4C   | 4L   | 4M    |
|------------------|-----------|-------|-------|----|----|------|------|--------|--------|----|--------|--------|--------|------|----|------|------|--------|--------|------|-------|-------|----|------|------|-------|
| W x H x L        | Size Code | 2-pin | 4-pin | B8 | A1 | A1.5 | A1.6 | A1.6.1 | A1.6.2 | A2 | A2.4.1 | A2.6.1 | A2.6.2 | A2.8 | A3 | A3.5 | A3.8 | A3.8.1 | A3.8.2 | A3.9 | A3.11 | A3.12 | A4 | A4.2 | A4.9 | A4.10 |
| 9 x 19 x 31.5    | <b>6A</b> |       |       |    |    |      |      |        |        |    |        |        |        |      |    |      |      |        |        |      |       |       |    |      |      |       |
| 11 x 21 x 31.5   | <b>6B</b> |       |       |    |    |      |      |        |        |    |        |        |        |      |    |      |      |        |        |      |       |       |    |      |      |       |
| 13 x 24 x 31.5   | <b>6D</b> |       |       |    |    |      |      |        |        |    |        |        |        |      |    |      |      |        |        |      |       |       |    |      |      |       |
| 15 x 26 x 31.5   | <b>6F</b> |       |       |    |    |      |      |        |        |    |        |        |        |      |    |      |      |        |        |      |       |       |    |      |      |       |
| 17 x 29 x 31.5   | <b>6G</b> |       |       |    |    |      |      |        |        |    |        |        |        |      |    |      |      |        |        |      |       |       |    |      |      |       |
| 17 x 34.5 x 31.5 | <b>6I</b> |       |       |    |    |      |      |        |        |    |        |        |        |      |    |      |      |        |        |      |       |       |    |      |      |       |
| 20 x 39.5 x 31.5 | <b>6J</b> |       |       |    |    |      |      |        |        |    |        |        |        |      |    |      |      |        |        |      |       |       |    |      |      |       |
| 13 x 24 x 41.5   | <b>7C</b> |       |       |    |    |      |      |        |        |    |        |        |        |      |    |      |      |        |        |      |       |       |    |      |      |       |
| 15 x 26 x 41.5   | <b>7D</b> |       |       |    |    |      |      |        |        |    |        |        |        |      |    |      |      |        |        |      |       |       |    |      |      |       |
| 17 x 29 x 41.5   | <b>7E</b> |       |       |    |    |      |      |        |        |    |        |        |        |      |    |      |      |        |        |      |       |       |    |      |      |       |
| 19 x 32 x 41.5   | <b>7F</b> |       |       |    |    |      |      |        |        |    |        |        |        |      |    |      |      |        |        |      |       |       |    |      |      |       |
| 20 x 39.5 x 41.5 | <b>7G</b> |       |       |    |    |      |      |        |        |    |        |        |        |      |    |      |      |        |        |      |       |       |    |      |      |       |
| 24 x 45.5 x 41.5 | <b>7H</b> |       |       |    |    |      |      |        |        |    |        |        |        |      |    |      |      |        |        |      |       |       |    |      |      |       |
| 28 x 38 x 41.5   | <b>7L</b> |       |       |    |    |      |      |        |        |    |        |        |        |      |    |      |      |        |        |      |       |       |    |      |      |       |
| 31 x 46 x 41.5   | <b>7I</b> |       |       |    |    |      |      |        |        |    |        |        |        |      |    |      |      |        |        |      |       |       |    |      |      |       |
| 35 x 50 x 41.5   | <b>7J</b> |       |       |    |    |      |      |        |        |    |        |        |        |      |    |      |      |        |        |      |       |       |    |      |      |       |
| 40 x 55 x 41.5   | <b>7K</b> |       |       |    |    |      |      |        |        |    |        |        |        |      |    |      |      |        |        |      |       |       |    |      |      |       |

## Recommendation for Processing and Application of Through-Hole Capacitors

### Soldering Process

Internal temperature of the capacitor must be kept as follows:

Polyester: preheating:  $T_{\max.} \leq 125^{\circ}\text{C}$   
soldering:  $T_{\max.} \leq 135^{\circ}\text{C}$

Polypropylene: preheating:  $T_{\max.} \leq 100^{\circ}\text{C}$   
soldering:  $T_{\max.} \leq 110^{\circ}\text{C}$

#### Single wave soldering

Soldering bath temperature:  $T < 260^{\circ}\text{C}$

Dwell time:  $t < 5\text{ sec}$

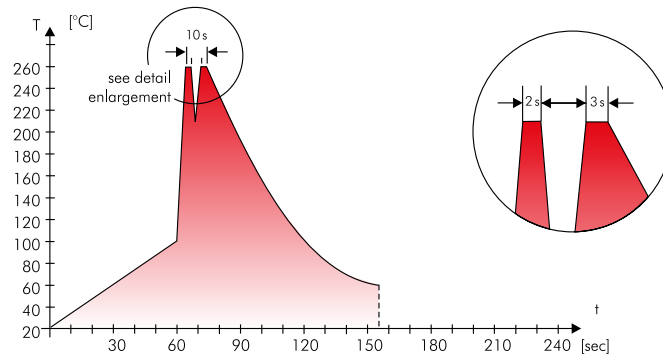
#### Double wave soldering

Soldering bath temperature:  $T < 260^{\circ}\text{C}$

Dwell time:  $\sum t < 5\text{ sec}$

Due to different soldering processes and heat requirements the graphs are to be regarded as a recommendation only.

### Wave soldering



Typical temperature/time graph for double wave soldering

## WIMA Quality and Environmental Philosophy

### ISO 9001:2015 Certification

ISO 9001:2015 is an international basic standard of quality assurance systems for all branches of industry. The approval according to ISO 9001:2015 of our factories 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 during production process:

- incoming material inspection
- metallization
- film inspection
- schoopage
- pre-healing
- pin attachment
- cast resin preparation/encapsulation
- 100% final inspection
- Testing as per customer requirements

### WIMA Environmental Policy

All WIMA capacitors, irrespective of whether through-hole devices or SMD, are made of environmentally friendly materials. Neither during manufacture nor in the product itself any toxic substances are used, e.g.

- Lead
- PCB
- CFC
- Hydrocarbon chloride
- Chromium 6+
- 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:

- adhesive tapes made of plastic
- metal clips

### RoHS Compliance

According to the RoHS Directive 2015/863/EU as amended from time to time 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 re-frained from using such substances since years already.



WIMA Kondensatoren sind bleifrei konform RoHS 2015/863/EU

WIMA capacitors are lead free in accordance with RoHS 2015/863/EU

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

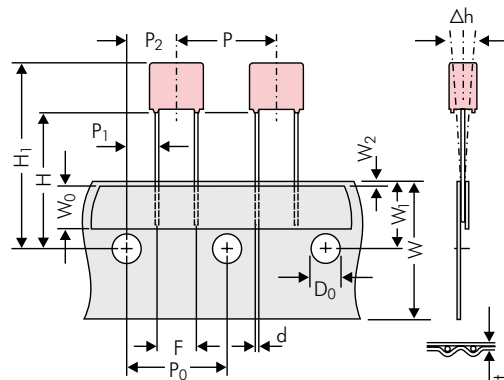


Diagram 1:  
PCM 2.5/5/7.5mm

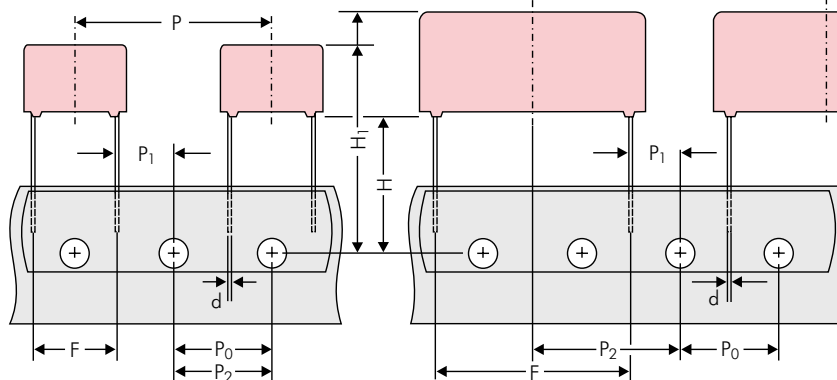


Diagram 2: PCM 10/15 mm

Diagram 3: PCM 22.5 and 27.5\*mm

\*PCM 27.5 taping possible with two feed holes between components

| 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 <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 error max. 1.0 mm/20 pitch                    | 12.7 ±0.3 error max. 1.0 mm/20 pitch                    | 12.7 ±0.3 error max. 1.0 mm/20 pitch                      | 12.7 ±0.3 error max. 1.0 mm/20 pitch                      | 12.7 ±0.3 error max. 1.0 mm/20 pitch                      | 12.7 ±0.3 error max. 1.0 mm/20 pitch                      | 12.7 ±0.3 error max. 1.0 mm/20 pitch                                |
| Feed hole centre to pin                          | 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<br>18.5 ±0.5                                  | 16.5 ±0.3<br>18.5 ±0.5                                  | 16.5 ±0.5<br>18.5 ±0.5                                    | 16.5 ±0.5<br>18.5 ±0.5                                    | 16.5 ±0.5<br>18.5 ±0.5                                    | 16.5 ±0.5<br>18.5 ±0.5                                    | 16.5 ±0.5<br>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           |
| Pin spacing at upper edge of carrier tape        | F              | 2.5 ±0.5                                                | 5.0 <sup>+0.8</sup> <sub>-0.2</sub>                     | 7.5 ±0.8                                                  | 10.0 ±0.8                                                 | 15 ±0.8                                                   | 22.5 ±0.8                                                 | 27.5 ±0.8                                                           |
| Pin diameter                                     | d              | 0.4 ±0.05                                               | 0.5 ±0.05                                               | *0.5 ±0.05 or 0.6 <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              | 0.6 ±0.2                                                | 0.6 ±0.2                                                | 0.6 ±0.2                                                  | 0.6 ±0.2                                                  | 0.6 ±0.2                                                  | 0.6 ±0.2                                                  | 0.6 ±0.2                                                            |
| Package<br>(see also page 152)                   | ▲              | ROLL/AMMO                                               |                                                         |                                                           | AMMO                                                      |                                                           |                                                           |                                                                     |
|                                                  |                | REEL Ø 360 max.<br>Ø 30 ±1                              | B 52 ±2<br>58 ±2 depending on comp. dimensions          |                                                           | REEL Ø 360 max.<br>Ø 30 ±1                                | B 52 ±2<br>58 ±2 or 66 ±2                                 | REEL Ø 500 max.<br>Ø 25 ±1                                | B 54 ±2<br>60 ±2 or 68 ±2 depending on PCM and component dimensions |
| Unit                                             |                | see details page 153.                                   |                                                         |                                                           |                                                           |                                                           |                                                           |                                                                     |

▲ When ordering please specify dimension H and required packaging type.

Dims in mm.

• Diameter of pins see General Data.

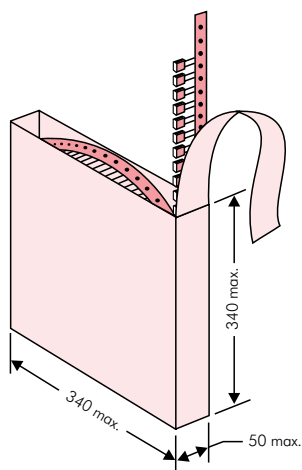
Please clarify customer-specific deviations with the manufacturer.

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

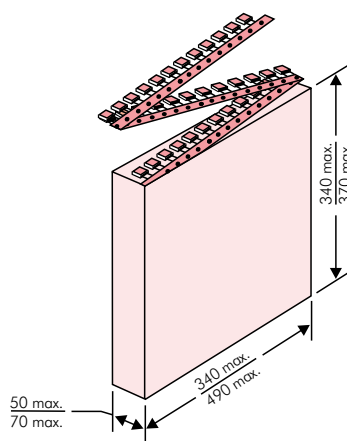
Position of components according to PCM 7.5 (sketch 1). P<sub>0</sub> = 12.7 or 15.0 is possible

## Types of Tape Packaging of Capacitors for Automatic Radial Insertion

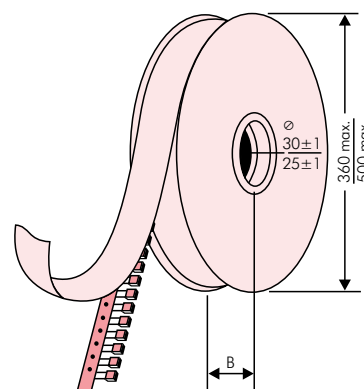
### ■ ROLL Packaging



### ■ AMMO Packaging



### ■ REEL Packaging



## BAR CODE (Labelling)

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

- WIMA supplier number
- Date code
- Customer's P/O number
- P/O line
- Customer's part number
- WIMA part number
- Quantity
- WIMA confirmation number
- Country of origin
- Customer name
- Handling unit number
- Week of delivery.

In addition part description of

- article
- capacitance value
- rated voltage
- dimensions
- technical note
- capacitance tolerance
- packing
- connecting information

BARCODE PDF417  
BARCODE 2D Datamatrix

|                                                                                                                                                                                |                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| <b>WIMA</b> Best Capacitors Made in Germany<br>Werk Aurich                                                                                                                     |                            |
| Supplier-ID: LIEF.NR.                                                                                                                                                          | Date Code: 20210419        |
|                                                                                                                                                                                |                            |
| Purchase Order No. (P/O): Bestellung xyz                                                                                                                                       | P/O line: 100              |
|                                                                                                                                                                                |                            |
| Customer Part No.: KUNDENTEILENUMMER                                                                                                                                           |                            |
|                                                                                                                                                                                |                            |
| WIMA Part No.: MKP1F041006B00KSSD                                                                                                                                              | Quantity: 459              |
|                                                                                                                                                                                |                            |
| WIMA Confirmation No.: 0001105072000100                                                                                                                                        |                            |
|                                                                                                                                                                                |                            |
| Customer No.: 0000100002                                                                                                                                                       | RoHS 2011/65/EU            |
| Gross Weight [g]: 4557                                                                                                                                                         | COO: DE                    |
|                                                                                                                                                                                |                            |
| WIMA – MKP 10      WIMA Part No.: MKP1F041006B00KSSD<br>MKP 10 1.0 µF 250 VDC 11x21x31.5 RM27.5<br>Standard 10%      Loss – Standard      Drähte 6-2<br>Vorlage Debitor Inland |                            |
|                                                                                                                                                                                | 0001105072000100           |
| 1002021443                                                                                                                                                                     | QTY: 459      Week 19/2021 |

## Packing Quantities for Capacitors with Radial Pins in PCM 2.5 mm to 27.5 mm



| PCM     | Size |      |      |       | bulk | ROLL  |       | pcs. per packing unit |       |          |       | AMMO      |           |       |       |
|---------|------|------|------|-------|------|-------|-------|-----------------------|-------|----------|-------|-----------|-----------|-------|-------|
|         |      |      |      |       |      |       |       | REEL                  |       |          |       |           |           |       |       |
|         | W    | H    | L    | Codes |      | H16.5 | H18.5 | Ø 360                 | Ø 500 | H16.5    | H18.5 | 340 x 340 | 490 x 370 | H16.5 | H18.5 |
|         |      |      |      |       | S    | N     | O     | F                     | I     | H        | J     | A         | C         | B     | D     |
| 2.5 mm  | 2.5  | 7    | 4.6  | 0B    | 5000 | 2200  |       | 2500                  |       | –        |       | 2800      |           | –     |       |
|         | 3    | 7.5  | 4.6  | 0C    | 5000 | 2000  |       | 2300                  |       | –        |       | 2300      |           | –     |       |
|         | 3.8  | 8.5  | 4.6  | 0D    | 5000 | 1500  |       | 1800                  |       | –        |       | 1800      |           | –     |       |
|         | 4.6  | 9    | 4.6  | 0E    | 5000 | 1200  |       | 1500                  |       | –        |       | 1500      |           | –     |       |
|         | 5.5  | 10   | 4.6  | 0F    | 5000 | 900   |       | 1200                  |       | –        |       | 1200      |           | –     |       |
| 5 mm    | 2.5  | 6.5  | 7.2  | 1A    | 5000 | 2200  |       | 2500                  |       | –        |       | 2800      |           | –     |       |
|         | 3    | 7.5  | 7.2  | 1B    | 5000 | 2000  |       | 2300                  |       | –        |       | 2300      |           | –     |       |
|         | 3.5  | 8.5  | 7.2  | 1C    | 5000 | 1600  |       | 2000                  |       | –        |       | 2000      |           | –     |       |
|         | 4.5  | 6    | 7.2  | 1D    | 6000 | 1300  |       | 1500                  |       | –        |       | 1500      |           | –     |       |
|         | 4.5  | 9.5  | 7.2  | 1E    | 4000 | 1300  |       | 1500                  |       | –        |       | 1500      |           | –     |       |
|         | 5    | 10   | 7.2  | 1F    | 3500 | 1100  |       | 1400                  |       | –        |       | 1400      |           | –     |       |
|         | 5.5  | 7    | 7.2  | 1G    | 4000 | 1000  |       | 1200                  |       | –        |       | 1200      |           | –     |       |
|         | 5.5  | 11.5 | 7.2  | 1H    | 2500 | 1000  |       | 1200                  |       | –        |       | 1200      |           | –     |       |
|         | 6.5  | 8    | 7.2  | 1I    | 2500 | 800   |       | 1000                  |       | –        |       | 1000      |           | –     |       |
|         | 7.2  | 8.5  | 7.2  | 1J    | 2500 | 700   |       | 1000                  |       | –        |       | 1000      |           | –     |       |
|         | 7.2  | 13   | 7.2  | 1K    | 2000 | 700   |       | 950                   |       | –        |       | 1000      |           | –     |       |
|         | 8.5  | 10   | 7.2  | 1L    | 2000 | 600   |       | 800                   |       | –        |       | 800       |           | –     |       |
|         | 8.5  | 14   | 7.2  | 1M    | 1500 | 600   |       | 800                   |       | –        |       | 800       |           | –     |       |
|         | 11   | 16   | 7.2  | 1N    | 1000 | 500   |       | 600                   |       | –        |       | 640       |           | –     |       |
| 7.5 mm  | 2.5  | 7    | 10   | 2A    | 5000 | –     |       | 2500                  |       | 4400     |       | 2500      |           | –     |       |
|         | 3    | 8.5  | 10   | 2B    | 5000 | –     |       | 2200                  |       | 4300     |       | 2300      |           | 4150  |       |
|         | 4    | 9    | 10   | 2C    | 4000 | –     |       | 1700                  |       | 3200     |       | 1700      |           | 3000  |       |
|         | 4.5  | 9.5  | 10.3 | 2D    | 3500 | –     |       | 1500                  |       | 2900     |       | 1400      |           | 2700  |       |
|         | 5    | 10.5 | 10.3 | 2E    | 3000 | –     |       | 1300                  |       | 2500     |       | 1300      |           | –     |       |
|         | 5.7  | 12.5 | 10.3 | 2F    | 2000 | –     |       | 1000                  |       | 2200     |       | 1100      |           | –     |       |
|         | 7.2  | 12.5 | 10.3 | 2G    | 1500 | –     |       | 900                   |       | 1800     |       | 1000      |           | –     |       |
| 10 mm   | 3    | 9    | 13   | 3A    | 3000 | –     |       | 1100                  |       | 2200     |       | –         |           | 1900  |       |
|         | 4    | 9    | 13   | 3C    | 3000 | –     |       | 900                   |       | 1600     |       | –         |           | 1450  |       |
|         | 4    | 9.5  | 13   | 3D    | 3000 | –     |       | 900                   |       | 1600     |       | –         |           | 1400  |       |
|         | 5    | 11   | 13   | 3F    | 3000 | –     |       | 700                   |       | 1300     |       | –         |           | 1100  |       |
|         | 6    | 12   | 13   | 3G    | 2400 | –     |       | 550                   |       | 1100     |       | –         |           | 1000  |       |
|         | 6    | 12.5 | 13   | 3H    | 2400 | –     |       | 550                   |       | 1100     |       | –         |           | 1000  |       |
|         | 8    | 12   | 13   | 3I    | 2000 | –     |       | 400                   |       | 800      |       | –         |           | 740   |       |
| 15 mm   | 5    | 11   | 18   | 4B    | 2400 | –     |       | 600                   |       | 1200     |       | –         |           | 1150  |       |
|         | 6    | 12.5 | 18   | 4C    | 2000 | –     |       | 500                   |       | 1000     |       | –         |           | 1000  |       |
|         | 7    | 14   | 18   | 4D    | 1600 | –     |       | 450                   |       | 900      |       | –         |           | 850   |       |
|         | 8    | 15   | 18   | 4F    | 1200 | –     |       | 400                   |       | 800      |       | –         |           | 740   |       |
|         | 9    | 14   | 18   | 4H    | 1200 | –     |       | 350                   |       | 700      |       | –         |           | 650   |       |
|         | 9    | 16   | 18   | 4J    | 900  | –     |       | 350                   |       | 700      |       | –         |           | 650   |       |
|         | 11   | 14   | 18   | 4M    | 1000 | –     |       | 300                   |       | 600      |       | –         |           | 540   |       |
| 22.5 mm | 5    | 14   | 26.5 | 5A    | 1200 | –     |       | –                     |       | 800      |       | –         |           | 770   |       |
|         | 6    | 15   | 26.5 | 5B    | 1000 | –     |       | –                     |       | 700      |       | –         |           | 640   |       |
|         | 7    | 16.5 | 26.5 | 5D    | 760  | –     |       | –                     |       | 600      |       | –         |           | 550   |       |
|         | 8.5  | 18.5 | 26.5 | 5F    | 500  | –     |       | –                     |       | 480      |       | –         |           | 450   |       |
|         | 10.5 | 19   | 26.5 | 5G    | 594* | –     |       | –                     |       | 400      |       | –         |           | 360   |       |
|         | 10.5 | 20.5 | 26.5 | 5H    | 594* | –     |       | –                     |       | 400      |       | –         |           | 360   |       |
|         | 11   | 21   | 26.5 | 5I    | 561* | –     |       | –                     |       | 380      |       | –         |           | 350   |       |
| 27.5 mm | 9    | 19   | 31.5 | 6A    | 567* | –     |       | –                     |       | 460/340* |       | –         |           | –     |       |
|         | 11   | 21   | 31.5 | 6B    | 459* | –     |       | –                     |       | 380/280* |       | –         |           | –     |       |
|         | 13   | 24   | 31.5 | 6D    | 378* | –     |       | –                     |       | 300      |       | –         |           | –     |       |
|         | 15   | 26   | 31.5 | 6F    | 324* | –     |       | –                     |       | 270      |       | –         |           | –     |       |
|         | 17   | 29   | 31.5 | 6G    | 198* | –     |       | –                     |       | –        |       | –         |           | –     |       |
|         | 17   | 34.5 | 31.5 | 6I    | 198* | –     |       | –                     |       | –        |       | –         |           | –     |       |
|         | 20   | 39.5 | 31.5 | 6J    | 162* | –     |       | –                     |       | –        |       | –         |           | –     |       |

\* for 2-inch transport pitches.

\* TPS (Tray-Packing-System). Plate versions may have different packing units. Samples and pre-production needs on request.

Rights reserved to amend design data without prior notification.

## Packing Quantities for Capacitors with Radial Pins in PCM 37.5 mm to 52.5 mm

| PCM              | Size |      |      |           | bulk | ROLL  |       | REEL  |       |       |       | AMMO      |       |           |       |
|------------------|------|------|------|-----------|------|-------|-------|-------|-------|-------|-------|-----------|-------|-----------|-------|
|                  |      |      |      |           |      | H16.5 | H18.5 | Ø 360 |       | Ø 500 |       | 340 x 340 |       | 490 x 370 |       |
|                  | W    | H    | L    | Codes     |      |       |       | H16.5 | H18.5 | H16.5 | H18.5 | H16.5     | H18.5 | H16.5     | H18.5 |
|                  |      |      |      |           | S    | N     | O     | F     | I     | H     | J     | A         | C     | B         | D     |
| <b>37.5 mm**</b> | 9    | 19   | 41.5 | <b>7A</b> | 441* | —     | —     | —     | —     | —     | —     | —         | —     | —         | —     |
|                  | 11   | 22   | 41.5 | <b>7B</b> | 357* | —     | —     | —     | —     | —     | —     | —         | —     | —         | —     |
|                  | 13   | 24   | 41.5 | <b>7C</b> | 294* | —     | —     | —     | —     | —     | —     | —         | —     | —         | —     |
|                  | 15   | 26   | 41.5 | <b>7D</b> | 252* | —     | —     | —     | —     | —     | —     | —         | —     | —         | —     |
|                  | 17   | 29   | 41.5 | <b>7E</b> | 154* | —     | —     | —     | —     | —     | —     | —         | —     | —         | —     |
|                  | 19   | 32   | 41.5 | <b>7F</b> | 140* | —     | —     | —     | —     | —     | —     | —         | —     | —         | —     |
|                  | 20   | 39.5 | 41.5 | <b>7G</b> | 126* | —     | —     | —     | —     | —     | —     | —         | —     | —         | —     |
|                  | 24   | 45.5 | 41.5 | <b>7H</b> | 112* | —     | —     | —     | —     | —     | —     | —         | —     | —         | —     |
|                  | 28   | 38   | 41.5 | <b>7L</b> | 84*  | —     | —     | —     | —     | —     | —     | —         | —     | —         | —     |
|                  | 31   | 46   | 41.5 | <b>7I</b> | 84*  | —     | —     | —     | —     | —     | —     | —         | —     | —         | —     |
|                  | 35   | 50   | 41.5 | <b>7J</b> | 35*  | —     | —     | —     | —     | —     | —     | —         | —     | —         | —     |
|                  | 40   | 55   | 41.5 | <b>7K</b> | 28*  | —     | —     | —     | —     | —     | —     | —         | —     | —         | —     |
| <b>48.5 mm**</b> | 19   | 31   | 56   | <b>8D</b> | 120* | —     | —     | —     | —     | —     | —     | —         | —     | —         | —     |
|                  | 23   | 34   | 56   | <b>8E</b> | 80*  | —     | —     | —     | —     | —     | —     | —         | —     | —         | —     |
|                  | 27   | 37.5 | 56   | <b>8H</b> | 84*  | —     | —     | —     | —     | —     | —     | —         | —     | —         | —     |
|                  | 33   | 48   | 56   | <b>8J</b> | 25*  | —     | —     | —     | —     | —     | —     | —         | —     | —         | —     |
|                  | 37   | 54   | 56   | <b>8L</b> | 25*  | —     | —     | —     | —     | —     | —     | —         | —     | —         | —     |
| <b>52.5 mm</b>   | 25   | 45   | 57   | <b>9D</b> | 70*  | —     | —     | —     | —     | —     | —     | —         | —     | —         | —     |
|                  | 30   | 45   | 57   | <b>9E</b> | 60*  | —     | —     | —     | —     | —     | —     | —         | —     | —         | —     |
|                  | 35   | 50   | 57   | <b>9F</b> | 25*  | —     | —     | —     | —     | —     | —     | —         | —     | —         | —     |
|                  | 45   | 55   | 57   | <b>9H</b> | 20*  | —     | —     | —     | —     | —     | —     | —         | —     | —         | —     |
|                  | 45   | 65   | 57   | <b>9J</b> | 20*  | —     | —     | —     | —     | —     | —     | —         | —     | —         | —     |

\* TPS (Tray-Packing-System). Plate versions may have different packing units.

\*\*For Snubber capacitors in 2-pin version the PCM is changing to 38.5 respective 49.5 mm.

Samples and pre-production needs on request.

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Updated data on [www.wima.com](http://www.wima.com)

A WIMA part number consists of 18 digits and is composed as follows:

- Field 1 - 4: Type description
- Field 5 - 6: Rated voltage
- Field 7 - 10: Capacitance
- Field 11 - 12: Size and PCM
- Field 13 - 14: Version code (e.g. Snubber versions)
- Field 15: Capacitance tolerance
- Field 16: Packing
- Field 17 - 18: Pin length (untaped)

| 1                        | 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 |    |
| <b>Type description:</b> |   |   |   | <b>Rated voltage:</b> |   | <b>Capacitance:</b> |   |                      |    | <b>Size:</b>               |    |                             |    | <b>Tolerance:</b>      |      |      |    |
| SMD-PET = SMDT           |   |   |   | 50 VDC = B0           |   | 22 pF = 0022        |   |                      |    | 4.8x3.3x3 Size 1812 = KA   |    |                             |    | ±20% = M               |      |      |    |
| SMD-PPS = SMDI           |   |   |   | 63 VDC = C0           |   | 47 pF = 0047        |   |                      |    | 4.8x3.3x4 Size 1812 = KB   |    |                             |    | ±10% = K               |      |      |    |
| FKP 02 = FKP0            |   |   |   | 100 VDC = D0          |   | 100 pF = 0100       |   |                      |    | 5.7x5.1x3.5 Size 2220 = QA |    |                             |    | ±5% = J                |      |      |    |
| MKS 02 = MKS0            |   |   |   | 250 VDC = F0          |   | 150 pF = 0150       |   |                      |    | 5.7x5.1x4.5 Size 2220 = QB |    |                             |    | ±2.5% = H              |      |      |    |
| FKS 2 = FKS2             |   |   |   | 400 VDC = G0          |   | 220 pF = 0220       |   |                      |    | 7.2x6.1x3 Size 2824 = TA   |    |                             |    | ±1% = E                |      |      |    |
| FKP 2 = FKP2             |   |   |   | 450 VDC = H0          |   | 330 pF = 0330       |   |                      |    | 7.2x6.1x5 Size 2824 = TB   |    |                             |    | ...                    |      |      |    |
| FKS 3 = FKS3             |   |   |   | 520 VDC = H2          |   | 470 pF = 0470       |   |                      |    | 10.2x7.6x5 Size 4030 = VA  |    |                             |    |                        |      |      |    |
| FKP 3 = FKP 3            |   |   |   | 600 VDC = I0          |   | 680 pF = 0680       |   |                      |    | 12.7x10.2x6 Size 5040 = XA |    |                             |    |                        |      |      |    |
| MKS 2 = MKS2             |   |   |   | 630 VDC = J0          |   | 1000 pF = 1100      |   |                      |    | 15.3x13.7x7 Size 6054 = YA |    |                             |    |                        |      |      |    |
| MKP 2 = MKP2             |   |   |   | 700 VDC = K0          |   | 1500 pF = 1150      |   |                      |    | 2.5x7x4.6 PCM2.5 = 0B      |    |                             |    | <b>Packing:</b>        |      |      |    |
| MKS 4 = MKS4             |   |   |   | 800 VDC = L0          |   | 2200 pF = 1220      |   |                      |    | 3x7.5x4.6 PCM2.5 = 0C      |    |                             |    | AMMO H16.5 340x340 = A |      |      |    |
| MKP 4 = MKP4             |   |   |   | 850 VDC = M0          |   | 3300 pF = 1330      |   |                      |    | 2.5x6.5x7.2 PCM5 = 1A      |    |                             |    | AMMO H16.5 490x370 = B |      |      |    |
| MKP 10 = MKP1            |   |   |   | 900 VDC = N0          |   | 4700 pF = 1470      |   |                      |    | 3x7.5x7.2 PCM5 = 1B        |    |                             |    | AMMO H18.5 340x340 = C |      |      |    |
| FKP 4 = FKP4             |   |   |   | 1000 VDC = O1         |   | 6800 pF = 1680      |   |                      |    | 2.5x7x10 PCM7.5 = 2A       |    |                             |    | AMMO H18.5 490x370 = D |      |      |    |
| FKP 1 = FKP1             |   |   |   | 1100 VDC = P0         |   | 0.01 µF = 2100      |   |                      |    | 3x8.5x10 PCM7.5 = 2B       |    |                             |    | REEL H16.5 360 = F     |      |      |    |
| MKP-X2 = MKX2            |   |   |   | 1200 VDC = Q0         |   | 0.022 µF = 2220     |   |                      |    | 3x9x13 PCM10 = 3A          |    |                             |    | REEL H16.5 500 = H     |      |      |    |
| MKP-X1 R = MKX1          |   |   |   | 1250 VDC = R0         |   | 0.047 µF = 2470     |   |                      |    | 4x9x13 PCM10 = 3C          |    |                             |    | REEL H18.5 360 = I     |      |      |    |
| MKP-Y2 = MKY2            |   |   |   | 1500 VDC = S0         |   | 0.1 µF = 3100       |   |                      |    | 5x11x18 PCM15 = 4B         |    |                             |    | REEL H18.5 500 = J     |      |      |    |
| MKP 4F = MKPF            |   |   |   | 1600 VDC = T0         |   | 0.22 µF = 3220      |   |                      |    | 6x12.5x18 PCM15 = 4C       |    |                             |    | ROLL H16.5 = N         |      |      |    |
| Snubber MKP = SNMP       |   |   |   | 1700 VDC = TA         |   | 0.47 µF = 3470      |   |                      |    | 6x14x26.5 PCM22.5 = 5A     |    |                             |    | ROLL H18.5 = O         |      |      |    |
| Snubber FKP = SNFP       |   |   |   | 2000 VDC = U0         |   | 1 µF = 4100         |   |                      |    | 6x15x26.5 PCM22.5 = 5B     |    |                             |    | BLISTER W12 180 = P    |      |      |    |
| GTO MKP = GTOM           |   |   |   | 2500 VDC = V0         |   | 2.2 µF = 4220       |   |                      |    | 9x19x31.5 PCM27.5 = 6A     |    |                             |    | BLISTER W12 330 = Q    |      |      |    |
| DC-LINK MKP 4 = DCP4     |   |   |   | 3000 VDC = W0         |   | 4.7 µF = 4470       |   |                      |    | 11x21x31.5 PCM27.5 = 6B    |    |                             |    | BLISTER W16 330 = R    |      |      |    |
| DC-LINK MKP 6 = DCP6     |   |   |   | 4000 VDC = X0         |   | 10 µF = 5100        |   |                      |    | 9x19x41.5 PCM37.5 = 7A     |    |                             |    | BLISTER W24 330 = T    |      |      |    |
| DC-LINK HC = DCHC        |   |   |   | 6000 VDC = Y0         |   | 22 µF = 5220        |   |                      |    | 11x22x41.5 PCM37.5 = 7B    |    |                             |    | Bulk/TPS Standard = S  |      |      |    |
|                          |   |   |   | 230 VAC = 3Y          |   | 47 µF = 5470        |   |                      |    | 19x31x56 PCM 48.5 = 8D     |    |                             |    | ...                    |      |      |    |
|                          |   |   |   | 275 VAC = 1W          |   | 100 µF = 6100       |   |                      |    | 25x45x57 PCM 52.5 = 9D     |    |                             |    |                        |      |      |    |
|                          |   |   |   | 300 VAC = 2W          |   | 220 µF = 6220       |   |                      |    | ...                        |    |                             |    |                        |      |      |    |
|                          |   |   |   | 305 VAC = AW          |   | 1000 µF = 7100      |   |                      |    |                            |    |                             |    |                        |      |      |    |
|                          |   |   |   | 350 VAC = BW          |   | 1500 µF = 7150      |   |                      |    |                            |    |                             |    |                        |      |      |    |
|                          |   |   |   | 440 VAC = 4W          |   | ...                 |   |                      |    |                            |    |                             |    |                        |      |      |    |
|                          |   |   |   | ...                   |   |                     |   |                      |    |                            |    |                             |    |                        |      |      |    |
|                          |   |   |   |                       |   |                     |   | <b>Version code:</b> |    |                            |    | <b>Pin length (untaped)</b> |    |                        |      |      |    |
|                          |   |   |   |                       |   |                     |   | Standard = 00        |    |                            |    | 3.5 ±0.5 = C9               |    |                        |      |      |    |
|                          |   |   |   |                       |   |                     |   | Version A1 = 1A      |    |                            |    | 6 -2 = SD                   |    |                        |      |      |    |
|                          |   |   |   |                       |   |                     |   | Version A1.1.1 = 1B  |    |                            |    | 16 ±1 = P1                  |    |                        |      |      |    |
|                          |   |   |   |                       |   |                     |   | Version A2 = 2A      |    |                            |    | ...                         |    |                        |      |      |    |
|                          |   |   |   |                       |   |                     |   | ...                  |    |                            |    | <b>Pin length (taped)</b>   |    |                        |      |      |    |
|                          |   |   |   |                       |   |                     |   |                      |    |                            |    | none = 00                   |    |                        |      |      |    |

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[DCP4I061409JD4KYSD](#) [DCP4I061509JD2KYSD](#) [DCP4L056009FD2KYSD](#) [DCP4L056009FD4KYSD](#)  
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