

# Metallized Polypropylene Film Capacitors for Switching Circuits



- Switching capacitor for industrial controls
- Motor Speed Controls
- SMPS
- Resonant circuit
- Induction Heaters
- High frequency
- High current

|                                                             |      |                                                                                                               |        |            |        |      |
|-------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------|--------|------------|--------|------|
| Operating Temperature Range                                 |      | -40°C to +85°C                                                                                                |        |            |        |      |
| Capacitance Tolerance                                       |      | +/- 10% at 1kHz, 20°C                                                                                         |        |            |        |      |
| Rated Voltage                                               | VDC  | 250                                                                                                           | 330    | 400        | 600    | 700  |
|                                                             | SVDC | 400                                                                                                           | 500    | 600        | 800    | 1000 |
|                                                             | VAC  | 160                                                                                                           | 200    | 250        | 330    | 400  |
| Dissipation Factor (max) at 20°C.                           |      | Freq (kHz)                                                                                                    | C≤ 5μF | 5μF<C≤25μF | C>25μF |      |
|                                                             |      | 1                                                                                                             | .05%   | .08%       | .1%    |      |
| Insulation Resistance @20°C(<70% RH) for 1 minute at 100VDC |      | >30,000MΩ x μF<br>not to exceed 30,000MΩ                                                                      |        |            |        |      |
| Peak Current - Ipeak (Non-repetitive)                       |      | Ipeak = 1.5°C*dv/dt Maximum                                                                                   |        |            |        |      |
| Dielectric Strength                                         |      | 200% of rated VDC for 10 seconds at 20°C between leads,<br>3KV at 60Hz for 60 seconds between leads and case. |        |            |        |      |
| Self inductance                                             |      | <1nH/mm along capacitor pitch.                                                                                |        |            |        |      |
| Capacitance drift                                           |      | <1.0% up to 40°C after 2 years                                                                                |        |            |        |      |
| Temperature Coefficient                                     |      | -200ppm/°C +/- 100ppm/°C                                                                                      |        |            |        |      |
| Life Expectancy<br>Capacitance change (typical) -5%         |      | ≥ 30,000 hours @VAC at 70°C<br>≥100,000 hours @ WVDC at 70°C                                                  |        |            |        |      |
| Failure rate                                                |      | 300/billion component hours                                                                                   |        |            |        |      |
| Dielectric                                                  |      | Polypropylene                                                                                                 |        |            |        |      |
| Electrodes                                                  |      | Vacuum deposited metal layers                                                                                 |        |            |        |      |
| Construction                                                |      | Metallized film                                                                                               |        |            |        |      |
| Leads                                                       |      | Copper leads.                                                                                                 |        |            |        |      |
| Coating                                                     |      | Solvent resistant plastic box (UL 94V-1) with epoxy end fills (UL 94V-0)                                      |        |            |        |      |

# PMC

+85°C Metallized  
Polypropylene Film  
Capacitors

查询"206PMC400K"供应商

## PHYSICAL DIMENSIONS

| μF \ WVDC (VAC) | 250 (160)      | 330 (200)      | 400 (250)      | 600 (330)      | 700 (400)      |
|-----------------|----------------|----------------|----------------|----------------|----------------|
| 1.5             |                |                |                |                | 42.5x27.5x24.5 |
| 2               |                |                |                |                | 42.5x27.5x24.5 |
| 2.5             |                |                |                | 42.5x27.5x24.5 | 42.5x35.5x33.5 |
| 3               |                |                |                | 42.5x27.5x24.5 | 42.5x35.5x33.5 |
| 3.3             |                |                |                | 42.5x27.5x24.5 | 42.5x35.5x33.5 |
| 4               |                |                | 42.5x27.5x24.5 | 42.5x35.5x33.5 | 42.5x45x33     |
| 4.7             |                |                |                | 42.5x35.5x33.5 | 42.5x45x33     |
| 5               |                |                | 42.5x27.5x24.5 | 42.5x35.5x33.5 | 42.5x45x33     |
| 6.8             |                | 42.5x27.5x24.5 | 42.5x35.5x33.5 | 42.5x45x33     | 57.5x45x30     |
| 8               |                |                |                |                | 57.5x50x35     |
| 9               |                |                |                | 42.5x45x33     | 57.5x50x35     |
| 10              | 42.5x27.5x24.5 |                | 42.5x35.5x33.5 | 57.5x45x30     |                |
| 12.5            |                |                | 42.5x45x33     | 57.5x50x35     |                |
| 15              | 42.5x35.5x33.5 | 42.5x35.5x33.5 | 42.5x45x33     | 57.5x50x35     |                |
| 20              | 42.5x35.5x33.5 | 42.5x45x33     | 57.5x45x30     |                |                |
| 22              | 42.5x35.5x33.5 | 42.5x45x33     | 57.5x50x35     |                |                |
| 25              | 42.5x35.5x33.5 | 57.5x45x30     | 57.5x50x35     |                |                |
| 30              | 42.5x45x33     | 57.5x45x30     |                |                |                |
| 33              | 42.5x45x33     |                |                |                |                |
| 35              | 42.5x45x33     | 57.5x50x35     |                |                |                |
| 40              |                | 57.5x50x35     |                |                |                |
| 50              | 57.5x50x35     |                |                |                |                |
| 60              | 57.5x50x35     |                |                |                |                |

Convert to inches, divide by 25.4

LxHxT (mm)

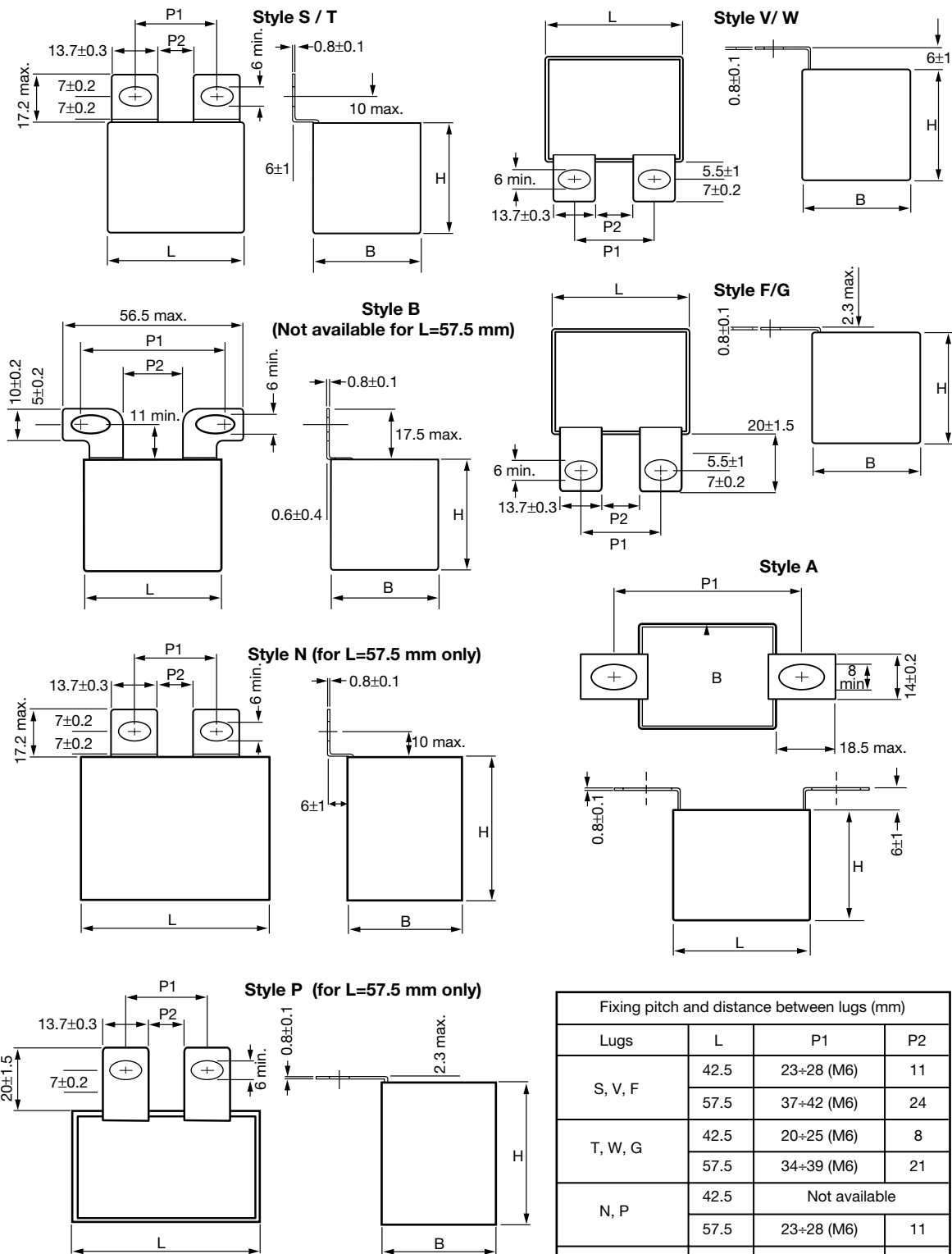
## STANDARD PART LISTING

| Capacitance (μF) | WVDC | IC PART NUMBER | dv/dt (v/μs) | Maximum RMS Ripple Current @100kHz, +70°C (A) | Typical ESR mΩ 100kHz, +25°C | Dimensions LxHxT (mm) |
|------------------|------|----------------|--------------|-----------------------------------------------|------------------------------|-----------------------|
| 1.5              | 700  | 155PMC700K#P2  | 70           | 12                                            | 5.3                          | 42.5x27.5x24.5        |
| 2                | 700  | 205PMC700K#P2  | 70           | 16                                            | 3.8                          | 42.5x27.5x24.5        |
| 2.5              | 600  | 255PMC600K#P2  | 55           | 16                                            | 3.8                          | 42.5x27.5x24.5        |
| 2.5              | 700  | 255PMC700K#P1  | 70           | 20.5                                          | 3.3                          | 42.5x35.5x33.5        |
| 3                | 600  | 305PMC600K#P2  | 55           | 17                                            | 3.4                          | 42.5x27.5x24.5        |
| 3                | 700  | 305PMC700K#P1  | 70           | 21.5                                          | 3                            | 42.5x35.5x33.5        |
| 3.3              | 600  | 335PMC600K#    | 55           | 17                                            | 3.3                          | 42.5x27.5x24.5        |
| 3.3              | 700  | 335PMC700K#    | 70           | 22                                            | 2.9                          | 42.5x35.5x33.5        |
| 4                | 400  | 405PMC400K#P2  | 40           | 17                                            | 3.2                          | 42.5x27.5x24.5        |
| 4                | 600  | 405PMC600K#P1  | 55           | 23                                            | 2.6                          | 42.5x35.5x33.5        |
| 4                | 700  | 405PMC700K#P0  | 70           | 25.5                                          | 2.5                          | 42.5x45x33            |
| 4.7              | 600  | 475PMC600K#    | 55           | 24                                            | 2.4                          | 42.5x35.5x33.5        |
| 4.7              | 700  | 475PMC700K#    | 70           | 27                                            | 2.2                          | 42.5x45x33            |
| 5                | 400  | 505PMC400K#P2  | 40           | 18.5                                          | 2.8                          | 42.5x27.5x24.5        |
| 5                | 600  | 505PMC600K#P1  | 55           | 24                                            | 2.4                          | 42.5x35.5x33.5        |
| 5                | 700  | 505PMC700K#P0  | 70           | 27                                            | 2.2                          | 42.5x45x33            |
| 6.8              | 330  | 685PMC330K#    | 30           | 18.5                                          | 2.8                          | 42.5x27.5x24.5        |
| 6.8              | 400  | 685PMC400K#P1  | 40           | 23.5                                          | 2.4                          | 42.5x35.5x33.5        |
| 6.8              | 600  | 685PMC600K#P0  | 55           | 27.5                                          | 2.1                          | 42.5x45x33            |
| 8                | 700  | 805PMC700K#    | 40           | 25.5                                          | 3.5                          | 57.5x50x35            |
| 9                | 600  | 905PMC600K#P0  | 55           | 30                                            | 1.8                          | 42.5x45x33            |
| 9                | 700  | 905PMC700K#    | 40           | 26.5                                          | 3.2                          | 57.5x50x35            |
| 10               | 250  | 106PMC250K#P2  | 25           | 19                                            | 2.6                          | 42.5x27.5x24.5        |
| 10               | 400  | 106PMC400K#P1  | 40           | 25.5                                          | 2                            | 42.5x35.5x33.5        |

| Capacitance (μF) | WVDC | IC PART NUMBER | dv/dt (v/μs) | Maximum RMS Ripple Current @100kHz, +70°C (A) | Typical ESR mΩ 100kHz, +25°C | Dimensions LxHxT (mm) |
|------------------|------|----------------|--------------|-----------------------------------------------|------------------------------|-----------------------|
| 10               | 600  | 106PMC600K#    | 30           | 23.5                                          | 3.8                          | 57.5x45x30            |
| 12.5             | 400  | 126PMC400K#P0  | 40           | 29                                            | 1.9                          | 42.5x45x33            |
| 12.5             | 600  | 126PMC600K#    | 30           | 26                                            | 3.3                          | 57.5x50x35            |
| 15               | 250  | 156PMC250K#P1  | 25           | 24.5                                          | 2.2                          | 42.5x35.5x33.5        |
| 15               | 330  | 156PMC330K#    | 30           | 26.5                                          | 2                            | 42.5x35.5x33.5        |
| 15               | 400  | 156PMC400K#P0  | 40           | 30                                            | 1.8                          | 42.5x45x33            |
| 15               | 600  | 156PMC600K#    | 30           | 27.5                                          | 3                            | 57.5x50x35            |
| 20               | 250  | 206PMC250K#P1  | 25           | 27                                            | 1.9                          | 42.5x35.5x33.5        |
| 20               | 330  | 206PMC330K#    | 30           | 29.5                                          | 1.8                          | 42.5x45x33            |
| 20               | 400  | 206PMC400K#    | 20           | 26.5                                          | 2.8                          | 57.5x45x30            |
| 22               | 250  | 226PMC250K#    | 25           | 27.5                                          | 1.9                          | 42.5x35.5x33.5        |
| 22               | 330  | 226PMC330K#    | 30           | 30.5                                          | 1.7                          | 42.5x45x33            |
| 22               | 400  | 226PMC400K#    | 20           | 29                                            | 2.7                          | 57.5x50x35            |
| 25               | 250  | 256PMC250K#P1  | 25           | 28                                            | 1.8                          | 42.5x35.5x33.5        |
| 25               | 330  | 256PMC330K#    | 17           | 26.5                                          | 2.7                          | 57.5x45x30            |
| 25               | 400  | 256PMC400K#    | 20           | 30                                            | 2.5                          | 57.5x50x35            |
| 30               | 250  | 306PMC250K#P0  | 25           | 30                                            | 1.7                          | 42.5x45x33            |
| 30               | 330  | 306PMC330K#    | 17           | 27.5                                          | 2.6                          | 57.5x45x30            |
| 33               | 250  | 336PMC250K#    | 25           | 31                                            | 1.7                          | 42.5x45x33            |
| 35               | 250  | 356PMC250K#P0  | 25           | 31                                            | 1.7                          | 42.5x45x33            |
| 35               | 330  | 356PMC330K#    | 17           | 31                                            | 2.3                          | 57.5x50x35            |
| 40               | 330  | 406PMC330K#    | 17           | 32.5                                          | 2.1                          | 57.5x50x35            |
| 50               | 250  | 506PMC250K#    | 15           | 33                                            | 2.1                          | 57.5x50x35            |
| 60               | 250  | 606PMC250K#    | 15           | 34.5                                          | 1.9                          | 57.5x50x35            |



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Dimensions in mm

| Fixing pitch and distance between lugs (mm) |      |               |    |
|---------------------------------------------|------|---------------|----|
| Lugs                                        | L    | P1            | P2 |
| S, V, F                                     | 42.5 | 23+28 (M6)    | 11 |
|                                             | 57.5 | 37+42 (M6)    | 24 |
| T, W, G                                     | 42.5 | 20+25 (M6)    | 8  |
|                                             | 57.5 | 34+39 (M6)    | 21 |
| N, P                                        | 42.5 | Not available |    |
|                                             | 57.5 | 23+28 (M6)    | 11 |
| A                                           | 42.5 | 51+64 (M8)    | -  |
|                                             | 57.5 | 65+78 (M8)    | -  |
| B                                           | 42.5 | 32+45 (M6)    | 17 |
|                                             | 57.5 | Not available |    |