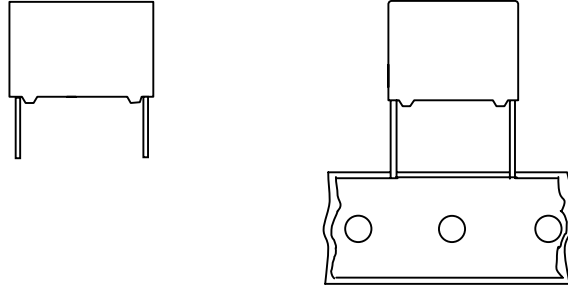


# AC and Pulse Double Side Metallized Polypropylene film Capacitors

PCMP 384

MMKP RADIAL POTTED CAPACITORS

Pitch 10.0/15.0/22.5/27.5mm  
(reduced pitch 7.5mm)**QUICK REFERENCE DATA**

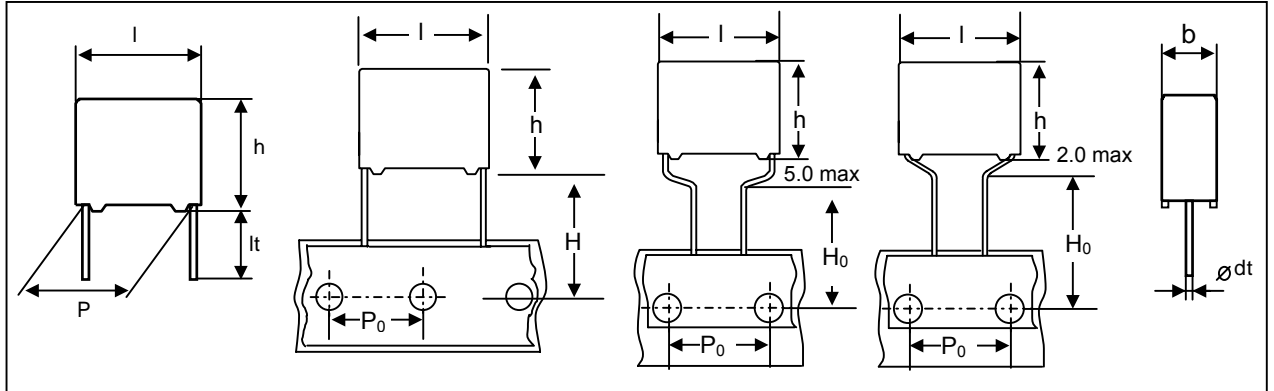
|                                  |   |
|----------------------------------|---|
| Capacitance range (E24 series)   | 0.00047 to 1.0 $\mu$ F                                    |
| Capacitance tolerance            | $\pm 3.5\%$ , $\pm 5\%$ , $\pm 10\%$                      |
| Rated voltage (DC)               | 250V, 400V, 630V, 800V, 1000V, 1250V, 1600V, 2000V, 2500V |
| Climatic category                | 55/105/56   |
| Temperature range                | -55 ~ +105  |
| Reference specification          | IEC 60384-17 / 16   |
| Potting & Encapsulation material | Qualified in accordance with UL94V-0                      |

|  |   |
|--|---|
| <b>FEATURES</b> <ul style="list-style-type: none"> <li>. Low contact resistance</li> <li>. Low loss dielectric</li> <li>. Small dimension for high density packaging</li> <li>. Supplied loose in box and ammo pack</li> </ul> | <b>APPLICATIONS</b> <ul style="list-style-type: none"> <li>. Electronic lighting e.g. Ballast</li> <li>. S-correction, Fly-back circuit in television receivers</li> <li>. UPS, Inverters</li> <li>. IGBT Snubber</li> <li>. Protection power semi-conductor</li> </ul> |
|--|---|

- Please refer to caution and warning at <http://www.pilkor.co.kr/download/Introductions.pdf> before using these products.

# AC and Pulse Double Side Metallized Polypropylene film Capacitors

## Ordering Information



PCMP 384 (X) X X XXX  
 Type series                      Capacitance

| Code | Voltage       |
|------|---------------|
| 4    | 250V          |
| 5    | 400V          |
| 6    | 630V          |
| C    | 630V mini     |
| 1    | 630V (400Vac) |
| M    | 800V          |
| 7    | 1000V         |
| D    | 1000V mini    |
| N    | 1250V         |
| 8    | 1600V         |
| 9    | 2000V         |
| 2    | 2000V(700Vac) |
| 0    | 2500V         |

| *Code | Original pitch |
|-------|----------------|
| D     | 10.0mm         |
| F     | 15.0mm         |
| J     | 22.5mm         |
| L     | 27.5mm         |

\* In case of overlapping the value, use the 13NC with pitch information.

| Code | Packing method | C-tol. | Lead length & Height   | Hole to hole (P <sub>0</sub> ) | Product (I <sub>max</sub> ) |         |      |      |
|------|----------------|--------|------------------------|--------------------------------|-----------------------------|---------|------|------|
|      |                |        |                        |                                | 12.5                        | 18.0    | 26.0 | 31.0 |
|      |                |        |                        |                                | Pitch (P)                   |         |      |      |
| 2    | Loose in box   | ± 5%   | lt = 5.0 ± 1.0mm       | -                              | 10.0                        | 15.0    | 22.5 | 27.5 |
| 8    | Loose in box   | ± 3.5% | lt = 5.0 ± 1.0mm       | -                              | 10.0                        | 15.0    | 22.5 | 27.5 |
| H    | Loose in box   | ± 10%  | lt = 5.0 ± 1.0mm       | -                              | 10.0                        | 15.0    | 22.5 | 27.5 |
| 3    | Loose in box   | ± 5%   | lt = 25.0 ± 2.0mm      | -                              | 10.0                        | 15.0    | 22.5 | 27.5 |
| 7    | Loose in box   | ± 10%  | lt = 25.0 ± 2.0mm      | -                              | 10.0                        | 15.0    | 22.5 | 27.5 |
| 5    | Ammo packing   | ± 5%   | H=18.5mm               | 12.7mm                         | 10.0                        | 15.0    | 22.5 | 27.5 |
| A    | Ammo packing   | ± 5%   | H <sub>0</sub> =16.0mm | 15.0mm                         | 7.5(*)                      | 7.5(*)  | -    | -    |
| C    | Ammo packing   | ± 5%   | H <sub>0</sub> =16.0mm | 15.0mm                         | -                           | 7.5(**) | -    | -    |

\* Reduced pitch (Reduced lead spacings)

\*\* Reduced pitch (Low height)

# AC and Pulse Double Side Metallized Polypropylene film Capacitors

## Packaging Information

| SMALLEST PACKING QUANTITIES<br>( SPQ ) | Loose in box     |
|--|------------------|
|  | It = 5.0 ± 1.0mm |
| DIMENSIONS                             | SPQ              |
| 4.0 X 10.0 X 12.5                      | 2000             |
| 5.0 X 11.0 X 12.5                      | 1500             |
| 6.0 X 12.0 X 12.5                      | 1000             |
| 5.0 X 11.0 X 18.0                      | 1000             |
| 6.0 X 12.0 X 18.0                      | 1000             |
| 7.0 X 13.5 X 18.0                      | 1000             |
| 8.5 X 15.0 X 18.0                      | 1000             |
| 10.0 X 16.5 X 18.0                     | 1000             |
| 6.0 X 15.5 X 26.0                      | 1000             |
| 7.0 X 16.5 X 26.0                      | 1000             |
| 8.5 X 18.0 X 26.0                      | 500              |
| 10.0 X 19.5 X 26.0                     | 500              |
| 11.5 X 21.0 X 26.0                     | 500              |
| 13.0 X 23.0 X 26.0                     | 500              |
| 11.0 X 21.0 X 31.0                     | 500              |
| 13.0 X 23.0 X 31.0                     | 250              |
| 15.0 X 25.0 X 31.0                     | 250              |
| 18.0 X 28.0 X 31.0                     | 200              |

# AC and Pulse Double Side Metallized Polypropylene film Capacitors

PCMP 384

 $V_{Rdc} = 250\text{ V}$  $V_{Rac} = 125\text{ V}$ 

| Cap<br>( $\mu\text{F}$ )  | b x h x l<br>(mm) | Mess<br>(g)             | CATALOGUE NUMBER   |  |
|---|-------------------|-------------------------|--|--|
|   |                   |                         | PCMP 384 .....   |  |
|   |                   |                         | loose in box   | ammo packing   |
|   |                   |                         | lt = 5.0 $\pm$ 1.0 mm  | H = 16.0 mm<br>Reduced pitch(7.5mm)  |
| C - tol. $\pm$ 5 %  |                   | C - tol. $\pm$ 5 %      |  |  |
| Pitch = 10.0 $\pm$ 0.4 mm   |                   | dt = 0.6 +0.06/-0.05 mm |  |  |
| 0.010<br>0.011<br>0.012<br>0.013<br>0.015<br>0.016<br>0.018<br>0.020<br>0.022<br>0.024<br>0.027<br>0.030<br>0.033<br>0.036<br>0.039 | 4.0 x 10.0 x 12.5 | 0.8                     | PCMP 384 42103<br>PCMP 384 42113<br>PCMP 384 42123<br>PCMP 384 42133<br>PCMP 384 42153<br>PCMP 384 42163<br>PCMP 384 42183<br>PCMP 384 42203<br>PCMP 384 42223<br>PCMP 384 42243<br>PCMP 384 42273<br>PCMP 384 42303<br>PCMP 384 42333<br>PCMP 384 42363<br>PCMP 384 42393 | PCMP 384 4A103<br>PCMP 384 4A113<br>PCMP 384 4A123<br>PCMP 384 4A133<br>PCMP 384 4A153<br>PCMP 384 4A163<br>PCMP 384 4A183<br>PCMP 384 4A203<br>PCMP 384 4A223<br>PCMP 384 4A243<br>PCMP 384 4A273<br>PCMP 384 4A303<br>PCMP 384 4A333<br>PCMP 384 4A363<br>PCMP 384 4A393 |
| 0.043<br>0.047<br>0.051<br>0.056  | 5.0 x 11.0 x 12.5 | 0.9                     | PCMP 384 42433<br>PCMP 384 42473<br>PCMP 384 42513<br>PCMP 384 42563   | PCMP 384 4A433<br>PCMP 384 4A473<br>PCMP 384 4A513<br>PCMP 384 4A563   |
| 0.062<br>0.068<br>0.075<br>0.082  | 6.0 x 12.0 x 12.5 | 1.0                     | PCMP 384 42623<br>PCMP 384D42683<br>PCMP 384D42753<br>PCMP 384D42823   | PCMP 384 4A623<br>PCMP 384D4A683<br>PCMP 384D4A753<br>PCMP 384D4A823   |
| Pitch = 15.0 $\pm$ 0.4 mm   |                   | dt = 0.8 +0.08/-0.05 mm |  |  |
| 0.068<br>0.075<br>0.082<br>0.091<br>0.10  | 5.0 x 11.0 x 18.0 | 1.2                     | PCMP 384 42683<br>PCMP 384 42753<br>PCMP 384 42823<br>PCMP 384 42913<br>PCMP 384 42104   | PCMP 384 4A683<br>PCMP 384 4A753<br>PCMP 384 4A823<br>PCMP 384 4A913<br>PCMP 384 4A104   |
| 0.11<br>0.12<br>0.13<br>0.15  | 6.0 x 12.0 x 18.0 | 1.4                     | PCMP 384 42114<br>PCMP 384 42124<br>PCMP 384 42134<br>PCMP 384 42154   | PCMP 384 4A114<br>PCMP 384 4A124<br>PCMP 384 4A134<br>PCMP 384 4A154   |

# AC and Pulse Double Side Metallized Polypropylene film Capacitors

PCMP 384

 $V_{Rdc} = 400\text{ V}$  $V_{Rac} = 220\text{ V}$ 

| Cap<br>( $\mu\text{F}$ )  | b x h x l<br>(mm) | Mess<br>(g)        | CATALOGUE NUMBER   |  |
|---|-------------------|--------------------|--|--|
|   |                   |                    | PCMP 384 .....   |  |
|   |                   |                    | loose in box   | ammo packing   |
|   |                   |                    | lt = 5.0 $\pm$ 1.0 mm  | H = 16.0 mm<br>Reduced pitch(7.5mm)  |
| C - tol. $\pm$ 5 %  |                   | C - tol. $\pm$ 5 % |  |  |
| Pitch = 10.0 $\pm$ 0.4 mm      dt = 0.6 +0.06/-0.05 mm                        |                   |                    |  |  |
| 0.010<br>0.011<br>0.012<br>0.013<br>0.015<br>0.016<br>0.018<br>0.020<br>0.022 | 4.0 x 10.0 x 12.5 | 0.8                | PCMP 384 52103<br>PCMP 384 52113<br>PCMP 384 52123<br>PCMP 384 52133<br>PCMP 384 52153<br>PCMP 384 52163<br>PCMP 384 52183<br>PCMP 384 52203<br>PCMP 384 52223 | PCMP 384 5A103<br>PCMP 384 5A113<br>PCMP 384 5A123<br>PCMP 384 5A133<br>PCMP 384 5A153<br>PCMP 384 5A163<br>PCMP 384 5A183<br>PCMP 384 5A203<br>PCMP 384 5A223 |
| 0.024<br>0.027<br>0.030<br>0.033  | 5.0 x 11.0 x 12.5 | 0.9                | PCMP 384 52243<br>PCMP 384 52273<br>PCMP 384 52303<br>PCMP 384 52333   | PCMP 384 5A243<br>PCMP 384 5A273<br>PCMP 384 5A303<br>PCMP 384 5A333   |
| 0.036<br>0.039<br>0.043<br>0.047  | 6.0 x 12.0 x 12.5 | 1.0                | PCMP 384D52363<br>PCMP 384D52393<br>PCMP 384D52433<br>PCMP 384D52473   | PCMP 384D5A363<br>PCMP 384D5A393<br>PCMP 384D5A433<br>PCMP 384D5A473   |
| Pitch = 15.0 $\pm$ 0.4 mm      dt = 0.8 +0.08/-0.05 mm                        |                   |                    |  |  |
| 0.036<br>0.039<br>0.043<br>0.047<br>0.051<br>0.056                            | 5.0 x 11.0 x 18.0 | 1.2                | PCMP 384 52363<br>PCMP 384 52393<br>PCMP 384 52433<br>PCMP 384 52473<br>PCMP 384 52513<br>PCMP 384 52563   | PCMP 384 5A363<br>PCMP 384 5A393<br>PCMP 384 5A433<br>PCMP 384 5A473<br>PCMP 384 5A513<br>PCMP 384 5A563   |
| 0.062<br>0.068<br>0.075<br>0.082  | 6.0 x 12.0 x 18.0 | 1.4                | PCMP 384 52623<br>PCMP 384 52683<br>PCMP 384 52753<br>PCMP 384 52823   | PCMP 384 5A623<br>PCMP 384 5A683<br>PCMP 384 5A753<br>PCMP 384 5A823   |
| 0.091<br>0.10<br>0.11   | 7.0 x 13.5 x 18.0 | 1.9                | PCMP 384 52913<br>PCMP 384 52104<br>PCMP 384 52114   | PCMP 384 5A913<br>PCMP 384 5A104<br>PCMP 384 5A114   |

# AC and Pulse Double Side Metallized Polypropylene film Capacitors

PCMP 384

| $V_{Rdc} = 630 V$  |                   | $V_{Rac} = 250 V$       |  | Mini Type  |  |
|--|-------------------|-------------------------|--|--|--|
| Cap<br>( $\mu F$ )   | b x h x l<br>(mm) | Mess<br>(g)             | CATALOGUE NUMBER   |  |  |
|  |                   |                         | PCMP 384 .....   |  |  |
|  |                   |                         | loose in box   | ammo packing   |  |
|  |                   |                         | lt = 5.0 $\pm$ 1.0 mm  | H = 16.0 mm<br>Reduced pitch(7.5mm)  |  |
|  |                   | C - tol. $\pm$ 5 %      |  | C - tol. $\pm$ 5 %   |  |
| Pitch = 10.0 $\pm$ 0.4 mm  |                   | dt = 0.6 +0.06/-0.05 mm |  |  |  |
| 0.0047<br>0.0051<br>0.0056<br>0.0062<br>0.0068<br>0.0075<br>0.0082<br>0.0091<br>0.010<br>0.011<br>0.012<br>0.013           | 4.0 x 10.0 x 12.5 | 0.8                     | PCMP 384 C2472<br>PCMP 384 C2512<br>PCMP 384 C2562<br>PCMP 384 C2622<br>PCMP 384 C2682<br>PCMP 384 C2752<br>PCMP 384 C2822<br>PCMP 384 C2912<br>PCMP 384 C2103<br>PCMP 384 C2113<br>PCMP 384 C2123<br>PCMP 384 C2133                                     | PCMP 384 CA472<br>PCMP 384 CA512<br>PCMP 384 CA562<br>PCMP 384 CA622<br>PCMP 384 CA682<br>PCMP 384 CA752<br>PCMP 384 CA822<br>PCMP 384 CA912<br>PCMP 384 CA103<br>PCMP 384 CA113<br>PCMP 384 CA123<br>PCMP 384 CA133                                     |  |
| 0.015<br>0.016<br>0.018<br>0.020<br>0.022  | 5.0 x 11.0 x 12.5 | 0.9                     | PCMP 384 C2153<br>PCMP 384 C2163<br>PCMP 384 C2183<br>PCMP 384 C2203<br>PCMP 384 C2223   | PCMP 384 CA153<br>PCMP 384 CA163<br>PCMP 384 CA183<br>PCMP 384 CA203<br>PCMP 384 CA223   |  |
| 0.024<br>0.027<br>0.030  | 6.0 x 12.0 x 12.5 | 1.0                     | PCMP 384 C2243<br>PCMP 384 C2273<br>PCMP 384DC2303   | PCMP 384 CA243<br>PCMP 384 CA273<br>PCMP 384DCA303   |  |
| Pitch = 15.0 $\pm$ 0.4 mm  |                   | dt = 0.8 +0.08/-0.05 mm |  |  |  |
| 0.010<br>0.011<br>0.012<br>0.013<br>0.015<br>0.016<br>0.018<br>0.020<br>0.022<br>0.024<br>0.027<br>0.030<br>0.033<br>0.036 | 5.0 x 11.0 x 18.0 | 1.2                     | PCMP 384 62103<br>PCMP 384 62113<br>PCMP 384 62123<br>PCMP 384 62133<br>PCMP 384 62153<br>PCMP 384 62163<br>PCMP 384 62183<br>PCMP 384 62203<br>PCMP 384 62223<br>PCMP 384 62243<br>PCMP 384 62273<br>PCMP 384 C2303<br>PCMP 384 C2333<br>PCMP 384 C2363 | PCMP 384 6A103<br>PCMP 384 6A113<br>PCMP 384 6A123<br>PCMP 384 6A133<br>PCMP 384 6A153<br>PCMP 384 6A163<br>PCMP 384 6A183<br>PCMP 384 6A203<br>PCMP 384 6A223<br>PCMP 384 6A243<br>PCMP 384 6A273<br>PCMP 384 CA303<br>PCMP 384 CA333<br>PCMP 384 CA363 |  |
| 0.039<br>0.043<br>0.047<br>0.051<br>0.056  | 6.0 x 12.0 x 18.0 | 1.4                     | PCMP 384 C2393<br>PCMP 384 C2433<br>PCMP 384 C2473<br>PCMP 384 C2513<br>PCMP 384 C2563   | PCMP 384 CA393<br>PCMP 384 CA433<br>PCMP 384 CA473<br>PCMP 384 CA513<br>PCMP 384 CA563   |  |
| 0.062<br>0.068<br>0.075  | 7.0 x 13.5 x 18.0 | 1.9                     | PCMP 384 C2623<br>PCMP 384 C2683<br>PCMP 384 C2753   | PCMP 384 CA623<br>PCMP 384 CA683<br>PCMP 384 CA753   |  |
| 0.082<br>0.091<br>0.10<br>0.11   | 8.5 x 15.0 x 18.0 | 2.6                     | PCMP 384 C2823<br>PCMP 384 C2913<br>PCMP 384 C2104<br>PCMP 384 C2114   | PCMP 384 CA823<br>PCMP 384 CA913<br>PCMP 384 CA104<br>PCMP 384 CA114   |  |

; Larger type

# AC and Pulse Double Side Metallized Polypropylene film Capacitors

PCMP 384

 $V_{Rdc} = 630\text{ V}$  $V_{Rac} = 400\text{ V}$ 

| Cap<br>( $\mu\text{F}$ )  | b x h x l<br>(mm)  | Mess<br>(g)        | CATALOGUE NUMBER        |                                     |  |
|---------------------------|--------------------|--------------------|-------------------------|-------------------------------------|--|
|                           |                    |                    | PCMP 384 .....          |                                     |  |
|                           |                    |                    | loose in box            | ammo packing                        |  |
|                           |                    |                    | lt = 5.0 $\pm$ 1.0 mm   | H = 16.0 mm<br>Reduced pitch(7.5mm) |  |
|                           |                    | C - tol. $\pm$ 5 % |                         | C - tol. $\pm$ 5 %                  |  |
| Pitch = 10.0 $\pm$ 0.4 mm |                    |                    | dt = 0.6 +0.06/-0.05 mm |                                     |  |
| 0.0010                    | 4.0 x 10.0 x 12.5  | 0.8                | PCMP 384 12102          | PCMP 384 1A102                      |  |
| 0.0011                    |                    |                    | PCMP 384 12112          | PCMP 384 1A112                      |  |
| 0.0012                    |                    |                    | PCMP 384 12122          | PCMP 384 1A122                      |  |
| 0.0013                    |                    |                    | PCMP 384 12132          | PCMP 384 1A132                      |  |
| 0.0015                    |                    |                    | PCMP 384 12152          | PCMP 384 1A152                      |  |
| 0.0016                    |                    |                    | PCMP 384 12162          | PCMP 384 1A162                      |  |
| 0.0018                    |                    |                    | PCMP 384 12182          | PCMP 384 1A182                      |  |
| 0.0020                    |                    |                    | PCMP 384 12202          | PCMP 384 1A202                      |  |
| 0.0022                    |                    |                    | PCMP 384 12222          | PCMP 384 1A222                      |  |
| 0.0024                    |                    |                    | PCMP 384 12242          | PCMP 384 1A242                      |  |
| 0.0027                    |                    |                    | PCMP 384 12272          | PCMP 384 1A272                      |  |
| 0.0030                    |                    |                    | PCMP 384 12302          | PCMP 384 1A302                      |  |
| 0.0033                    |                    |                    | PCMP 384 12332          | PCMP 384 1A332                      |  |
| 0.0036                    |                    |                    | PCMP 384 12362          | PCMP 384 1A362                      |  |
| 0.0039                    |                    |                    | PCMP 384 12392          | PCMP 384 1A392                      |  |
| 0.0043                    |                    |                    | PCMP 384 12432          | PCMP 384 1A432                      |  |
| 0.0047                    |                    |                    | PCMP 384 12472          | PCMP 384 1A472                      |  |
| 0.0051                    |                    |                    | PCMP 384 12512          | PCMP 384 1A512                      |  |
| 0.0056                    |                    |                    | PCMP 384 12562          | PCMP 384 1A562                      |  |
| 0.0062                    |                    |                    | PCMP 384 12622          | PCMP 384 1A622                      |  |
| 0.0068                    | PCMP 384 12682     | PCMP 384 1A682     |                         |                                     |  |
| 0.0075                    | PCMP 384 12752     | PCMP 384 1A752     |                         |                                     |  |
| 0.0082                    | PCMP 384 12822     | PCMP 384 1A822     |                         |                                     |  |
| 0.0091                    | 5.0 x 11.0 x 12.5  | 0.9                | PCMP 384 12912          | PCMP 384 1A912                      |  |
| 0.010                     |                    |                    | PCMP 384 12103          | PCMP 384 1A103                      |  |
| 0.011                     |                    |                    | PCMP 384 12113          | PCMP 384 1A113                      |  |
| 0.012                     |                    |                    | PCMP 384 12123          | PCMP 384 1A123                      |  |
| 0.013                     | 6.0 x 12.0 x 12.5  | 1.0                | PCMP 384 12133          | PCMP 384 1A133                      |  |
| 0.015                     |                    |                    | PCMP 384 12153          | PCMP 384 1A153                      |  |
| 0.016                     |                    |                    | PCMP 384 12163          | PCMP 384 1A163                      |  |
| 0.018                     |                    |                    | PCMP 384 12183          | PCMP 384 1A183                      |  |
| Pitch = 15.0 $\pm$ 0.4 mm |                    |                    | dt = 0.8 +0.08/-0.05 mm |                                     |  |
| 0.020                     | 5.0 x 11.0 x 18.0  | 1.2                | PCMP 384 12203          | PCMP 384 1A203                      |  |
| 0.022                     |                    |                    | PCMP 384 12223          | PCMP 384 1A223                      |  |
| 0.024                     |                    |                    | PCMP 384 12243          | PCMP 384 1A243                      |  |
| 0.027                     |                    |                    | PCMP 384 12273          | PCMP 384 1A273                      |  |
| 0.030                     | 6.0 x 12.0 x 18.0  | 1.4                | PCMP 384 12303          | PCMP 384 1A303                      |  |
| 0.033                     |                    |                    | PCMP 384 12333          | PCMP 384 1A333                      |  |
| 0.036                     |                    |                    | PCMP 384 12363          | PCMP 384 1A363                      |  |
| 0.039                     |                    |                    | PCMP 384 12393          | PCMP 384 1A393                      |  |
| 0.043                     | 7.0 x 13.5 x 18.0  | 1.9                | PCMP 384 12433          | PCMP 384 1A433                      |  |
| 0.047                     |                    |                    | PCMP 384 12473          | PCMP 384 1A473                      |  |
| 0.051                     | 8.5 x 15.0 x 18.0  | 2.6                | PCMP 384 12513          | PCMP 384 1A513                      |  |
| 0.056                     |                    |                    | PCMP 384 12563          | PCMP 384 1A563                      |  |
| 0.062                     |                    |                    | PCMP 384 12623          | PCMP 384 1A623                      |  |
| 0.068                     |                    |                    | PCMP 384 12683          | PCMP 384 1A683                      |  |
| 0.075                     | 10.0 x 16.5 x 18.0 | 3.1                | PCMP 384 12753          | PCMP 384 1A753                      |  |
| 0.082                     |                    |                    | PCMP 384 12823          | PCMP 384 1A823                      |  |
| 0.091                     |                    |                    | PCMP 384 12913          | PCMP 384 1A913                      |  |
| 0.10                      |                    |                    | PCMP 384 12104          | PCMP 384 1A104                      |  |

# AC and Pulse Double Side Metallized Polypropylene film Capacitors

PCMP 384

 $V_{Rdc} = 630 \text{ V}$  $V_{Rac} = 400 \text{ V}$ 

| Cap<br>( $\mu\text{F}$ )     | b x h x l<br>(mm)  | Mess<br>(g) | CATALOGUE NUMBER   |                                     |
|------------------------------|--------------------|-------------|--|-------------------------------------|
|                              |                    |             | PCMP 384 .....   |                                     |
|                              |                    |             | loose in box   | ammo packing                        |
|                              |                    |             | It = 5.0 $\pm$ 1.0 mm  | H = 16.0 mm<br>Reduced pitch(7.5mm) |
|                              |                    |             | C - tol. $\pm$ 5 %   | C - tol. $\pm$ 5 %                  |
| Pitch = 22.5 $\pm$ 0.4 mm    |                    |             | dt = 0.8 +0.08/-0.05 mm  |                                     |
| 0.10<br>0.11<br>0.12         | 7.0 x 16.5 x 26.0  | 3.2         | PCMP 384J12104<br>PCMP 384 12114<br>PCMP 384 12124                   | -<br>-<br>-                         |
| 0.13<br>0.15<br>0.16<br>0.18 | 8.5 x 18.0 x 26.0  | 4.4         | PCMP 384 12134<br>PCMP 384 12154<br>PCMP 384 12164<br>PCMP 384 12184 | -<br>-<br>-<br>-                    |
| 0.20<br>0.22                 | 10.0 x 19.5 x 26.0 | 5.5         | PCMP 384 12204<br>PCMP 384 12224                                     | -<br>-                              |
| 0.24<br>0.27<br>0.28         | 11.5 x 21.0 x 26.0 | 6.7         | PCMP 384 12244<br>PCMP 384 12274<br>PCMP 384 12284                   | -<br>-<br>-                         |
| 0.30<br>0.33                 | 13.0 x 23.0 x 26.0 | 8.0         | PCMP 384 12304<br>PCMP 384 12334                                     | -<br>-                              |
| Pitch = 27.5 $\pm$ 0.4 mm    |                    |             | dt = 0.8 +0.08/-0.05 mm  |                                     |
| 0.24<br>0.27<br>0.30         | 11.0 x 21.0 x 31.0 | 7.8         | PCMP 384L12244<br>PCMP 384L12274<br>PCMP 384L12304                   | -<br>-<br>-                         |
| 0.33<br>0.36<br>0.39<br>0.43 | 13.0 x 23.0 x 31.0 | 10.4        | PCMP 384L12334<br>PCMP 384 12364<br>PCMP 384 12394<br>PCMP 384 12434 | -<br>-<br>-<br>-                    |
| 0.47<br>0.51<br>0.56         | 15.0 x 25.0 x 31.0 | 12.8        | PCMP 384 12474<br>PCMP 384 12514<br>PCMP 384 12564                   | -<br>-<br>-                         |
| 0.62<br>0.68<br>0.75<br>0.82 | 18.0 x 28.0 x 31.0 | 17.2        | PCMP 384 12624<br>PCMP 384 12684<br>PCMP 384 12754<br>PCMP 384 12824 | -<br>-<br>-<br>-                    |



# AC and Pulse Double Side Metallized Polypropylene film Capacitors

PCMP 384

 $V_{Rdc} = 800\text{ V}$  $V_{Rac} = 450\text{ V}$ 

| Cap<br>( $\mu\text{F}$ )                                    | b x h x l<br>(mm)  | Mess<br>(g) | CATALOGUE NUMBER   |  |
|---|--------------------|-------------|--|--|
|   |                    |             | PCMP 384 .....   |  |
|   |                    |             | loose in box   | ammo packing   |
|   |                    |             | It = 5.0 $\pm$ 1.0 mm  | H = 16.0 mm<br>Reduced pitch(7.5mm)  |
|   |                    |             | C - tol. $\pm$ 5 %   | C - tol. $\pm$ 5 %   |
| Pitch = 15.0 $\pm$ 0.4 mm                                   |                    |             | dt = 0.8 +0.08/-0.05 mm  |  |
| 0.010<br>0.011<br>0.012<br>0.013<br>0.015<br>0.016<br>0.018 | 5.0 x 11.0 x 18.0  | 1.2         | PCMP 384 M2103<br>PCMP 384 M2113<br>PCMP 384 M2123<br>PCMP 384 M2133<br>PCMP 384 M2153<br>PCMP 384 M2163<br>PCMP 384 M2183 | PCMP 384 MA103<br>PCMP 384 MA113<br>PCMP 384 MA123<br>PCMP 384 MA133<br>PCMP 384 MA153<br>PCMP 384 MA163<br>PCMP 384 MA183 |
| 0.020<br>0.022  | 6.0 x 12.0 x 18.0  | 1.4         | PCMP 384 M2203<br>PCMP 384 M2223   | PCMP 384 MA203<br>PCMP 384 MA223   |
| 0.027<br>0.033  | 7.0 x 13.5 x 18.0  | 1.9         | PCMP 384 M2273<br>PCMP 384 M2333   | PCMP 384 MA273<br>PCMP 384 MA333   |
| 0.039<br>0.047  | 8.5 x 15.0 x 18.0  | 2.6         | PCMP 384 M2393<br>PCMP 384 M2473   | PCMP 384 MA393<br>PCMP 384 MA473   |
| 0.056<br>0.068  | 10.0 x 16.5 x 18.0 | 3.1         | PCMP 384 M2563<br>PCMP 384 M2683   | PCMP 384 MA563<br>PCMP 384 MA683   |

# AC and Pulse Double Side Metallized Polypropylene film Capacitors

PCMP 384

| $V_{Rdc} = 1000 V$   |                    | $V_{Rac} = 500 V$  |  | Mini Type  |  |
|--|--------------------|--------------------|--|--|--|
| Cap<br>( $\mu F$ )   | b x h x l<br>(mm)  | Mess<br>(g)        | CATALOGUE NUMBER   |  |  |
|  |                    |                    | PCMP 384 .....   |  |  |
|  |                    |                    | loose in box   | ammo packing   |  |
|  |                    |                    | lt = 5.0 $\pm$ 1.0 mm  | H = 16.0 mm<br>Reduced pitch(7.5mm)  |  |
|  |                    | C - tol. $\pm$ 5 % | C - tol. $\pm$ 5 %   |  |  |
| Pitch = 10.0 $\pm$ 0.4 mm dt = 0.6 +0.06/-0.05 mm  |                    |                    |  |  |  |
| 0.0010<br>0.0011<br>0.0012<br>0.0013<br>0.0015<br>0.0016<br>0.0018<br>0.0020<br>0.0022<br>0.0024<br>0.0027<br>0.0030<br>0.0033                           | 4.0 x 10.0 x 12.5  | 0.8                | PCMP 384 D2102<br>PCMP 384 D2112<br>PCMP 384 D2122<br>PCMP 384 D2132<br>PCMP 384 D2152<br>PCMP 384 D2162<br>PCMP 384 D2182<br>PCMP 384 D2202<br>PCMP 384 D2222<br>PCMP 384 D2242<br>PCMP 384 D2272<br>PCMP 384 D2302<br>PCMP 384 D2332   | PCMP 384 DA102<br>PCMP 384 DA112<br>PCMP 384 DA122<br>PCMP 384 DA132<br>PCMP 384 DA152<br>PCMP 384 DA162<br>PCMP 384 DA182<br>PCMP 384 DA202<br>PCMP 384 DA222<br>PCMP 384 DA242<br>PCMP 384 DA272<br>PCMP 384 DA302<br>PCMP 384 DA332   |  |
| 0.0036<br>0.0039<br>0.0043<br>0.0047   | 5.0 x 11.0 x 12.5  | 0.9                | PCMP 384 D2362<br>PCMP 384 D2392<br>PCMP 384 D2432<br>PCMP 384 D2472   | PCMP 384 DA362<br>PCMP 384 DA392<br>PCMP 384 DA432<br>PCMP 384 DA472   |  |
| 0.0051<br>0.0056<br>0.0062<br>0.0068   | 6.0 x 12.0 x 12.5  | 1.0                | PCMP 384 D2512<br>PCMP 384 D2562<br>PCMP 384 D2622<br>PCMP 384 D2682   | PCMP 384 DA512<br>PCMP 384 DA562<br>PCMP 384 DA622<br>PCMP 384 DA682   |  |
| Pitch = 15.0 $\pm$ 0.4 mm dt = 0.8 +0.08/-0.05 mm  |                    |                    |  |  |  |
| 0.00047<br>0.00056<br>0.00068<br>0.00082   | 5.0 x 11.0 x 18.0  | 1.2                | PCMP 384 DH471(*)<br>PCMP 384 DH561(*)<br>PCMP 384 DH681(*)<br>PCMP 384 DH821(*)   | - (*)<br>- (*)<br>- (*)<br>- (*)   |  |
| 0.0033<br>0.0036<br>0.0039<br>0.0043<br>0.0047<br>0.0051<br>0.0056<br>0.0062<br>0.0068<br>0.0075<br>0.0082<br>0.0091<br>0.010<br>0.011<br>0.012<br>0.013 | 5.0 x 11.0 x 18.0  | 1.2                | PCMP 384 72332<br>PCMP 384 72362<br>PCMP 384 72392<br>PCMP 384 72432<br>PCMP 384 72472<br>PCMP 384 72512<br>PCMP 384 72562<br>PCMP 384 72622<br>PCMP 384 72682<br>PCMP 384 D2752<br>PCMP 384 D2822<br>PCMP 384 D2912<br>PCMP 384 D2103<br>PCMP 384 D2113<br>PCMP 384 D2123<br>PCMP 384FD2133 | PCMP 384 7A332<br>PCMP 384 7A362<br>PCMP 384 7A392<br>PCMP 384 7A432<br>PCMP 384 7A472<br>PCMP 384 7A512<br>PCMP 384 7A562<br>PCMP 384 7A622<br>PCMP 384 7A682<br>PCMP 384 DA752<br>PCMP 384 DA822<br>PCMP 384 DA912<br>PCMP 384 DA103<br>PCMP 384 DA113<br>PCMP 384 DA123<br>PCMP 384FDA133 |  |
| 0.013<br>0.015<br>0.016<br>0.018<br>0.020  | 6.0 x 12.0 x 18.0  | 1.4                | PCMP 384 D2133<br>PCMP 384 D2153<br>PCMP 384FD2163<br>PCMP 384FD2183<br>PCMP 384FD2203   | PCMP 384 DA133<br>PCMP 384 DA153<br>PCMP 384FDA163<br>PCMP 384FDA183<br>PCMP 384FDA203   |  |
| 0.016<br>0.018<br>0.020<br>0.022<br>0.024<br>0.027   | 7.0 x 13.5 x 18.0  | 1.9                | PCMP 384 D2163<br>PCMP 384 D2183<br>PCMP 384 D2203<br>PCMP 384 D2223<br>PCMP 384FD2243<br>PCMP 384FD2273   | PCMP 384 DA163<br>PCMP 384 DA183<br>PCMP 384 DA203<br>PCMP 384 DA223<br>PCMP 384FDA243<br>PCMP 384FDA273   |  |
| 0.024<br>0.027<br>0.030<br>0.033<br>0.036<br>0.039   | 8.5 x 15.0 x 18.0  | 2.6                | PCMP 384 D2243<br>PCMP 384 D2273<br>PCMP 384 D2303<br>PCMP 384 D2333<br>PCMP 384FD2363<br>PCMP 384FD2393   | PCMP 384 DA243<br>PCMP 384 DA273<br>PCMP 384 DA303<br>PCMP 384 DA333<br>PCMP 384FDA363<br>PCMP 384FDA393   |  |
| 0.036<br>0.039   | 10.0 x 16.5 x 18.0 | 3.1                | PCMP 384 D2363<br>PCMP 384 D2393   | PCMP 384 DA363<br>PCMP 384 DA393   |  |

\* Capacitance tolerance  $\pm$  10%

# AC and Pulse Double Side Metallized Polypropylene film Capacitors

PCMP 384

| $V_{Rdc} = 1000 V$                                     |                    | $V_{Rac} = 500 V$  |  | Mini Type                           |  |
|--|--------------------|--------------------|--|-------------------------------------|--|
| Cap<br>( $\mu F$ )                                     | b x h x l<br>(mm)  | Mess<br>(g)        | CATALOGUE NUMBER   |                                     |  |
|  |                    |                    | PCMP 384 .....   |                                     |  |
|  |                    |                    | loose in box   | ammo packing                        |  |
|  |                    |                    | It = 5.0 $\pm$ 1.0 mm  | H = 16.0 mm<br>Reduced pitch(7.5mm) |  |
| C - tol. $\pm$ 5 %                                     |                    | C - tol. $\pm$ 5 % |  |                                     |  |
| Pitch = 22.5 $\pm$ 0.4 mm      dt = 0.8 +0.08/-0.05 mm |                    |                    |  |                                     |  |
| 0.043<br>0.047<br>0.051                                | 7.0 x 16.5 x 26.0  | 3.2                | PCMP 384 D2433<br>PCMP 384 D2473<br>PCMP 384 D2513                   | -<br>-<br>-                         |  |
| 0.056<br>0.062<br>0.068                                | 8.5 x 18.0 x 26.0  | 4.4                | PCMP 384 D2563<br>PCMP 384 D2623<br>PCMP 384 D2683                   | -<br>-<br>-                         |  |
| 0.075<br>0.082<br>0.091<br>0.10                        | 10.0 x 19.5 x 26.0 | 5.5                | PCMP 384 D2753<br>PCMP 384 D2823<br>PCMP 384 D2913<br>PCMP 384 D2104 | -<br>-<br>-<br>-                    |  |
| Pitch = 27.5 $\pm$ 0.4 mm      dt = 0.8 +0.08/-0.05 mm |                    |                    |  |                                     |  |
| 0.11<br>0.12<br>0.13                                   | 11.0 x 21.0 x 31.0 | 7.8                | PCMP 384 D2114<br>PCMP 384 D2124<br>PCMP 384 D2134                   | -<br>-<br>-                         |  |
| 0.14<br>0.15<br>0.16<br>0.18                           | 13.0 x 23.0 x 31.0 | 10.4               | PCMP 384 D2144<br>PCMP 384 D2154<br>PCMP 384 D2164<br>PCMP 384 D2184 | -<br>-<br>-<br>-                    |  |
| 0.20<br>0.22<br>0.24                                   | 15.0 x 25.0 x 31.0 | 12.8               | PCMP 384 D2204<br>PCMP 384 D2224<br>PCMP 384 D2244                   | -<br>-<br>-                         |  |
| 0.27<br>0.30<br>0.33<br>0.36                           | 18.0 x 28.0 x 31.0 | 17.2               | PCMP 384 D2274<br>PCMP 384 D2304<br>PCMP 384 D2334<br>PCMP 384 D2364 | -<br>-<br>-<br>-                    |  |

# AC and Pulse Double Side Metallized Polypropylene film Capacitors

PCMP 384

 $V_{Rdc} = 1250 V$  $V_{Rac} = 550 V$ 

| Cap<br>( $\mu F$ )                                 | b x h x l<br>(mm)  | Mess<br>(g) | CATALOGUE NUMBER   |  |
|--|--------------------|-------------|--|--|
|  |                    |             | PCMP 384 .....   |  |
|  |                    |             | loose in box   | ammo packing   |
|  |                    |             | lt = 5.0 $\pm$ 1.0 mm  | H = 16.0 mm<br>Reduced pitch(7.5mm)  |
|  |                    |             | C - tol. $\pm$ 5 %   | C - tol. $\pm$ 5 %   |
| Pitch = 15.0 $\pm$ 0.4 mm                          |                    |             | dt = 0.8 +0.08/-0.05 mm  |  |
| 0.010  | 5.0 x 11.0 x 18.0  | 1.2         | PCMP 384FN2103   | PCMP 384FNA103   |
| 0.010<br>0.011<br>0.012<br>0.013<br>0.015<br>0.016 | 6.0 x 12.0 x 18.0  | 1.4         | PCMP 384 N2103<br>PCMP 384 N2113<br>PCMP 384 N2123<br>PCMP 384 N2133<br>PCMP 384FN2153<br>PCMP 384FN2163 | PCMP 384 NA103<br>PCMP 384 NA113<br>PCMP 384 NA123<br>PCMP 384 NA133<br>PCMP 384FNA153<br>PCMP 384FNA163 |
| 0.015<br>0.016<br>0.018<br>0.020                   | 7.0 x 13.5 x 18.0  | 1.9         | PCMP 384 N2153<br>PCMP 384 N2163<br>PCMP 384FN2183<br>PCMP 384FN2203                                     | PCMP 384 NA153<br>PCMP 384 NA163<br>PCMP 384FNA183<br>PCMP 384FNA203                                     |
| 0.018<br>0.020<br>0.022<br>0.024<br>0.027<br>0.030 | 8.5 x 15.0 x 18.0  | 2.6         | PCMP 384 N2183<br>PCMP 384 N2203<br>PCMP 384 N2223<br>PCMP 384 N2243<br>PCMP 384FN2273<br>PCMP 384FN2303 | PCMP 384 NA183<br>PCMP 384 NA203<br>PCMP 384 NA223<br>PCMP 384 NA243<br>PCMP 384FNA273<br>PCMP 384FNA303 |
| 0.027<br>0.030<br>0.033<br>0.036<br>0.039          | 10.0 x 16.5 x 18.0 | 3.1         | PCMP 384 N2273<br>PCMP 384 N2303<br>PCMP 384 N2333<br>PCMP 384FN2363<br>PCMP 384FN2393                   | PCMP 384 NA273<br>PCMP 384 NA303<br>PCMP 384 NA333<br>PCMP 384FNA363<br>PCMP 384FNA393                   |
| 0.036<br>0.039<br>0.043<br>0.047                   | 11.0 x 18.5 x 18.0 | 4.1         | PCMP 384 N2363<br>PCMP 384 N2393<br>PCMP 384 N2433<br>PCMP 384 N2473                                     | PCMP 384 NA363<br>PCMP 384 NA393<br>PCMP 384 NA433<br>PCMP 384 NA473                                     |
| Pitch = 22.5 $\pm$ 0.4 mm                          |                    |             | dt = 0.8 +0.08/-0.05 mm  |  |
| 0.051  | 8.5 x 18.0 x 26.0  | 4.4         | PCMP 384 N2513   | -  |
| 0.056<br>0.062<br>0.068<br>0.075                   | 10.0 x 19.5 x 26.0 | 5.5         | PCMP 384 N2563<br>PCMP 384 N2623<br>PCMP 384 N2683<br>PCMP 384 N2753                                     | -<br>-<br>-<br>-   |
| 0.082<br>0.091<br>0.10                             | 11.5 x 21.0 x 26.0 | 6.7         | PCMP 384 N2823<br>PCMP 384 N2913<br>PCMP 384 N2104   | -<br>-<br>-  |
| 0.11<br>0.12                                       | 13.0 x 23.0 x 26.0 | 8.0         | PCMP 384 N2114<br>PCMP 384 N2124   | -<br>-   |

# AC and Pulse Double Side Metallized Polypropylene film Capacitors

PCMP 384

 $V_{Rdc} = 1600 V$  $V_{Rac} = 630 V$ 

| Cap<br>( $\mu F$ )   | b x h x l<br>(mm)  | Mess<br>(g)        | CATALOGUE NUMBER   |  |
|--|--------------------|--------------------|--|--|
|  |                    |                    | PCMP 384 .....   |  |
|  |                    |                    | loose in box   | ammo packing   |
|  |                    |                    | lt = 5.0 $\pm$ 1.0 mm  | H = 16.0 mm<br>Reduced pitch(7.5mm)  |
| C - tol. $\pm$ 5 %   |                    | C - tol. $\pm$ 5 % |  |  |
| Pitch = 15.0 $\pm$ 0.4 mm dt = 0.8 +0.08/-0.05 mm  |                    |                    |  |  |
| 0.00047<br>0.00056<br>0.00068<br>0.00082   | 5.0 x 11.0 x 18.0  | 1.2                | PCMP 384 8H471(*)<br>PCMP 384 8H561(*)<br>PCMP 384 8H681(*)<br>PCMP 384 8H821(*)   | - (*)<br>- (*)<br>- (*)<br>- (*)   |
| 0.0010<br>0.0011<br>0.0012<br>0.0013<br>0.0015<br>0.0016<br>0.0018<br>0.0020<br>0.0022<br>0.0024<br>0.0027<br>0.0030<br>0.0033<br>0.0036<br>0.0039<br>0.0043<br>0.0047<br>0.0051<br>0.0056<br>0.0062<br>0.0068 | 5.0 x 11.0 x 18.0  | 1.2                | PCMP 384 82102<br>PCMP 384 82112<br>PCMP 384 82122<br>PCMP 384 82132<br>PCMP 384 82152<br>PCMP 384 82162<br>PCMP 384 82182<br>PCMP 384 82202<br>PCMP 384 82222<br>PCMP 384 82242<br>PCMP 384 82272<br>PCMP 384 82302<br>PCMP 384 82332<br>PCMP 384 82362<br>PCMP 384 82392<br>PCMP 384 82432<br>PCMP 384 82472<br>PCMP 384F82512<br>PCMP 384F82562<br>PCMP 384F82622<br>PCMP 384F82682 | PCMP 384 8A102<br>PCMP 384 8A112<br>PCMP 384 8A122<br>PCMP 384 8A132<br>PCMP 384 8A152<br>PCMP 384 8A162<br>PCMP 384 8A182<br>PCMP 384 8A202<br>PCMP 384 8A222<br>PCMP 384 8A242<br>PCMP 384 8A272<br>PCMP 384 8A302<br>PCMP 384 8A332<br>PCMP 384 8A362<br>PCMP 384 8A392<br>PCMP 384 8A432<br>PCMP 384 8A472<br>PCMP 384F8A512<br>PCMP 384F8A562<br>PCMP 384F8A622<br>PCMP 384F8A682 |
| 0.0075<br>0.0051<br>0.0056<br>0.0062<br>0.0068<br>0.0082<br>0.0091<br>0.010  | 6.0 x 12.0 x 18.0  | 1.4                | PCMP 384F82752<br>PCMP 384 82512<br>PCMP 384 82562<br>PCMP 384 82622<br>PCMP 384 82682<br>PCMP 384F82822<br>PCMP 384F82912<br>PCMP 384F82103   | PCMP 384F8A752<br>PCMP 384 8A512<br>PCMP 384 8A562<br>PCMP 384 8A622<br>PCMP 384 8A682<br>PCMP 384F8A822<br>PCMP 384F8A912<br>PCMP 384F8A103   |
| 0.0075<br>0.0082   | 7.0 x 13.5 x 18.0  | 1.9                | PCMP 384 82752<br>PCMP 384 82822   | PCMP 384 8A752<br>PCMP 384 8A822   |
| 0.0091<br>0.010<br>0.011<br>0.012  | 8.5 x 15.0 x 18.0  | 2.6                | PCMP 384 82912<br>PCMP 384 82103<br>PCMP 384 82113<br>PCMP 384 82123   | PCMP 384 8A912<br>PCMP 384 8A103<br>PCMP 384 8A113<br>PCMP 384 8A123   |
| 0.013<br>0.015<br>0.016<br>0.018   | 10.0 x 16.5 x 18.0 | 3.1                | PCMP 384 82133<br>PCMP 384 82153<br>PCMP 384 82163<br>PCMP 384 82183   | PCMP 384 8A133<br>PCMP 384 8A153<br>PCMP 384 8A163<br>PCMP 384 8A183   |

\* Capacitance tolerance  $\pm$  10%

# AC and Pulse Double Side Metallized Polypropylene film Capacitors

PCMP 384

 $V_{Rdc} = 1600 V$  $V_{Rac} = 630 V$ 

| Cap<br>( $\mu F$ )        | b x h x l<br>(mm)  | Mess<br>(g)        | CATALOGUE NUMBER        |                                     |   |
|---------------------------|--------------------|--------------------|-------------------------|-------------------------------------|---|
|                           |                    |                    | PCMP 384 .....          |                                     |   |
|                           |                    |                    | loose in box            | ammo packing                        |   |
|                           |                    |                    | It = 5.0 $\pm$ 1.0 mm   | H = 16.0 mm<br>Reduced pitch(7.5mm) |   |
|                           |                    | C - tol. $\pm$ 5 % |                         | C - tol. $\pm$ 5 %                  |   |
| Pitch = 22.5 $\pm$ 0.4 mm |                    |                    | dt = 0.8 +0.08/-0.05 mm |                                     |   |
| 0.0056                    | 6.0 x 15.5 x 26.0  | 2.9                | PCMP 384J82562          | -                                   | - |
| 0.0062                    |                    |                    | PCMP 384J82622          | -                                   | - |
| 0.0068                    |                    |                    | PCMP 384J82682          | -                                   | - |
| 0.0075                    |                    |                    | PCMP 384J82752          | -                                   | - |
| 0.0082                    |                    |                    | PCMP 384J82822          | -                                   | - |
| 0.0091                    |                    |                    | PCMP 384J82912          | -                                   | - |
| 0.010                     |                    |                    | PCMP 384J82103          | -                                   | - |
| 0.011                     | 7.0 x 16.5 x 26.0  | 3.2                | PCMP 384J82113          | -                                   | - |
| 0.012                     |                    |                    | PCMP 384J82123          | -                                   | - |
| 0.013                     |                    |                    | PCMP 384J82133          | -                                   | - |
| 0.015                     |                    |                    | PCMP 384J82153          | -                                   | - |
| 0.016                     | 8.5 x 18.0 x 26.0  | 4.4                | PCMP 384J82163          | -                                   | - |
| 0.018                     |                    |                    | PCMP 384J82183          | -                                   | - |
| 0.020                     |                    |                    | PCMP 384 82203          | -                                   | - |
| 0.022                     |                    |                    | PCMP 384 82223          | -                                   | - |
| 0.024                     | 10.0 x 19.5 x 26.0 | 5.5                | PCMP 384 82243          | -                                   | - |
| 0.027                     |                    |                    | PCMP 384 82273          | -                                   | - |
| 0.030                     | 11.5 x 21.0 x 26.0 | 6.7                | PCMP 384 82303          | -                                   | - |
| 0.033                     |                    |                    | PCMP 384 82333          | -                                   | - |
| 0.036                     |                    |                    | PCMP 384 82363          | -                                   | - |
| 0.039                     | 13.0 x 23.0 x 26.0 | 8.0                | PCMP 384 82393          | -                                   | - |
| 0.043                     |                    |                    | PCMP 384 82433          | -                                   | - |
| 0.047                     |                    |                    | PCMP 384 82473          | -                                   | - |
|                           |                    |                    |                         |                                     |   |
| Pitch = 27.5 $\pm$ 0.4 mm |                    |                    | dt = 0.8 +0.08/-0.05 mm |                                     |   |
| 0.039                     | 11.0 x 21.0 x 31.0 | 7.8                | PCMP 384L82393          | -                                   | - |
| 0.043                     |                    |                    | PCMP 384L82433          | -                                   | - |
| 0.047                     |                    |                    | PCMP 384L82473          | -                                   | - |
| 0.051                     | 13.0 x 23.0 x 31.0 | 10.4               | PCMP 384 82513          | -                                   | - |
| 0.056                     |                    |                    | PCMP 384 82563          | -                                   | - |
| 0.062                     |                    |                    | PCMP 384 82623          | -                                   | - |
| 0.068                     | 15.0 x 25.0 x 31.0 | 12.8               | PCMP 384 82683          | -                                   | - |
| 0.075                     |                    |                    | PCMP 384 82753          | -                                   | - |
| 0.082                     |                    |                    | PCMP 384 82823          | -                                   | - |
| 0.10                      | 18.0 x 28.0 x 31.0 | 17.2               | PCMP 384 82104          | -                                   | - |
| 0.11                      |                    |                    | PCMP 384 82114          | -                                   | - |
| 0.12                      |                    |                    | PCMP 384 82124          | -                                   | - |

# AC and Pulse Double Side Metallized Polypropylene film Capacitors

PCMP 384

 $V_{Rdc} = 2000 V$  $V_{Rac} = 680 V$ 

| Cap<br>( $\mu F$ )   | b x h x l<br>(mm)  | Mess<br>(g) | CATALOGUE NUMBER   |  |
|--|--------------------|-------------|--|--|
|  |                    |             | PCMP 384 .....   |  |
|  |                    |             | loose in box   | ammo packing   |
|  |                    |             | lt = 5.0 $\pm$ 1.0 mm<br>C - tol. $\pm$ 5 %  | H = 16.0 mm<br>Reduced pitch(7.5mm)<br>C - tol. $\pm$ 5 %  |
| Pitch = 15.0 $\pm$ 0.4 mm  |                    |             | dt = 0.8 +0.08/-0.05 mm  |  |
| 0.0010<br>0.0011<br>0.0012<br>0.0013<br>0.0015<br>0.0016<br>0.0018<br>0.0020<br>0.0022<br>0.0024<br>0.0027<br>0.0030<br>0.0033<br>0.0036<br>0.0039<br>0.0043<br>0.0047 | 5.0 x 11.0 x 18.0  | 1.2         | PCMP 384 92102<br>PCMP 384 92112<br>PCMP 384 92122<br>PCMP 384 92132<br>PCMP 384 92152<br>PCMP 384 92162<br>PCMP 384 92182<br>PCMP 384 92202<br>PCMP 384 92222<br>PCMP 384 92242<br>PCMP 384 92272<br>PCMP 384F92302<br>PCMP 384F92332<br>PCMP 384F92362<br>PCMP 384F92392<br>PCMP 384F92432<br>PCMP 384F92472 | PCMP 384 9A102<br>PCMP 384 9A112<br>PCMP 384 9A122<br>PCMP 384 9A132<br>PCMP 384 9A152<br>PCMP 384 9A162<br>PCMP 384 9A182<br>PCMP 384 9A202<br>PCMP 384 9A222<br>PCMP 384 9A242<br>PCMP 384 9A272<br>PCMP 384F9A302<br>PCMP 384F9A332<br>PCMP 384F9A362<br>PCMP 384F9A392<br>PCMP 384F9A432<br>PCMP 384F9A472 |
| 0.0051<br>0.0030<br>0.0033<br>0.0036<br>0.0039<br>0.0056<br>0.0062<br>0.0068   | 6.0 x 12.0 x 18.0  | 1.4         | PCMP 384F92512<br>PCMP 384 92302<br>PCMP 384 92332<br>PCMP 384 92362<br>PCMP 384 92392<br>PCMP 384F92562<br>PCMP 384F92622<br>PCMP 384F92682   | PCMP 384F9A512<br>PCMP 384 9A302<br>PCMP 384 9A332<br>PCMP 384 9A362<br>PCMP 384 9A392<br>PCMP 384F9A562<br>PCMP 384F9A622<br>PCMP 384F9A682   |
| 0.0075<br>0.0043<br>0.0047<br>0.0051<br>0.0056<br>0.0082<br>0.0091   | 7.0 x 13.5 x 18.0  | 1.9         | PCMP 384F92752<br>PCMP 384 92432<br>PCMP 384 92472<br>PCMP 384 92512<br>PCMP 384 92562<br>PCMP 384F92822<br>PCMP 384F92912   | PCMP 384F9A752<br>PCMP 384 9A432<br>PCMP 384 9A472<br>PCMP 384 9A512<br>PCMP 384 9A562<br>PCMP 384F9A822<br>PCMP 384F9A912   |
| 0.010<br>0.0062<br>0.0068<br>0.0075<br>0.0082  | 8.5 x 15.0 x 18.0  | 2.6         | PCMP 384F92103<br>PCMP 384 92622<br>PCMP 384 92682<br>PCMP 384 92752<br>PCMP 384 92822   | PCMP 384F9A103<br>PCMP 384 9A622<br>PCMP 384 9A682<br>PCMP 384 9A752<br>PCMP 384 9A822   |
| 0.0091<br>0.010<br>0.011<br>0.012  | 10.0 x 16.5 x 18.0 | 3.1         | PCMP 384 92912<br>PCMP 384 92103<br>PCMP 384 92113<br>PCMP 384 92123   | PCMP 384 9A912<br>PCMP 384 9A103<br>PCMP 384 9A113<br>PCMP 384 9A123   |
| 0.013<br>0.015   | 11.0 x 18.5 x 18.0 | 4.1         | PCMP 384F92133<br>PCMP 384F92153   | PCMP 384F9A133<br>PCMP 384F9A153   |

# AC and Pulse Double Side Metallized Polypropylene film Capacitors

PCMP 384

 $V_{Rdc} = 2000\text{ V}$  $V_{Rac} = 680\text{ V}$ 

| Cap<br>( $\mu\text{F}$ )                               | b x h x l<br>(mm)  | Mess<br>(g)        | CATALOGUE NUMBER   |                                     |  |
|--|--------------------|--------------------|--|-------------------------------------|--|
|  |                    |                    | PCMP 384 .....   |                                     |  |
|  |                    |                    | loose in box   | ammo packing                        |  |
|  |                    |                    | lt = 5.0 $\pm$ 1.0 mm  | H = 16.0 mm<br>Reduced pitch(7.5mm) |  |
|  |                    | C - tol. $\pm$ 5 % |  | C - tol. $\pm$ 5 %                  |  |
| Pitch = 22.5 $\pm$ 0.4 mm      dt = 0.8 +0.08/-0.05 mm |                    |                    |  |                                     |  |
| 0.0056<br>0.0062<br>0.0068                             | 6.0 x 15.5 x 26.0  | 2.9                | PCMP 384J92562<br>PCMP 384J92622<br>PCMP 384J92682                   | -<br>-<br>-                         |  |
| 0.0075<br>0.0082<br>0.0091<br>0.010                    | 7.0 x 16.5 x 26.0  | 3.2                | PCMP 384J92752<br>PCMP 384J92822<br>PCMP 384J92912<br>PCMP 384J92103 | -<br>-<br>-<br>-                    |  |
| 0.011<br>0.012<br>0.013<br>0.015                       | 8.5 x 18.0 x 26.0  | 4.4                | PCMP 384J92113<br>PCMP 384J92123<br>PCMP 384 92133<br>PCMP 384 92153 | -<br>-<br>-<br>-                    |  |
| 0.016<br>0.018   | 10.0 x 19.5 x 26.0 | 5.5                | PCMP 384 92163<br>PCMP 384 92183                                     | -<br>-                              |  |
| 0.020<br>0.022<br>0.024                                | 11.5 x 21.0 x 26.0 | 6.7                | PCMP 384 92203<br>PCMP 384 92223<br>PCMP 384 92243                   | -<br>-<br>-                         |  |



# AC and Pulse Double Side Metallized Polypropylene film Capacitors

PCMP 384

 $V_{Rdc} = 2000 V$  $V_{Rac} = 700 V$ 

| Cap<br>( $\mu F$ )   | b x h x l<br>(mm)  | Mess<br>(g)        | CATALOGUE NUMBER   |  |
|--|--------------------|--------------------|--|--|
|  |                    |                    | PCMP 384 .....   |  |
|  |                    |                    | loose in box   | ammo packing   |
|  |                    |                    | lt = 5.0 $\pm$ 1.0 mm  | H = 16.0 mm<br>Reduced pitch(7.5mm)  |
| C - tol. $\pm$ 5 %   |                    | C - tol. $\pm$ 5 % |  |  |
| Pitch = 15.0 $\pm$ 0.4 mm      dt = 0.8 +0.08/-0.05 mm   |                    |                    |  |  |
| 0.00047<br>0.00056<br>0.00068<br>0.00082   | 5.0 x 11.0 x 18.0  | 1.2                | PCMP 384 2H471(*)<br>PCMP 384 2H561(*)<br>PCMP 384 2H681(*)<br>PCMP 384 2H821(*)   | - (*)<br>- (*)<br>- (*)<br>- (*)   |
| 0.0010<br>0.0011<br>0.0012<br>0.0013<br>0.0015<br>0.0016<br>0.0018<br>0.0020<br>0.0022<br>0.0024 | 5.0 x 11.0 x 18.0  | 1.2                | PCMP 384 22102<br>PCMP 384 22112<br>PCMP 384 22122<br>PCMP 384 22132<br>PCMP 384 22152<br>PCMP 384 22162<br>PCMP 384 22182<br>PCMP 384 22202<br>PCMP 384 22222<br>PCMP 384 22242 | PCMP 384 2A102<br>PCMP 384 2A112<br>PCMP 384 2A122<br>PCMP 384 2A132<br>PCMP 384 2A152<br>PCMP 384 2A162<br>PCMP 384 2A182<br>PCMP 384 2A202<br>PCMP 384 2A222<br>PCMP 384 2A242 |
| 0.0027<br>0.0030<br>0.0033<br>0.0036   | 6.0 x 12.0 x 18.0  | 1.4                | PCMP 384 22272<br>PCMP 384 22302<br>PCMP 384 22332<br>PCMP 384 22362   | PCMP 384 2A272<br>PCMP 384 2A302<br>PCMP 384 2A332<br>PCMP 384 2A362   |
| 0.0039<br>0.0043<br>0.0047   | 7.0 x 13.5 x 18.0  | 1.9                | PCMP 384 22392<br>PCMP 384 22432<br>PCMP 384 22472   | PCMP 384 2A392<br>PCMP 384 2A432<br>PCMP 384 2A472   |
| 0.0051<br>0.0056<br>0.0062<br>0.0068   | 8.5 x 15.0 x 18.0  | 2.6                | PCMP 384 22512<br>PCMP 384 22562<br>PCMP 384 22622<br>PCMP 384 22682   | PCMP 384 2A512<br>PCMP 384 2A562<br>PCMP 384 2A622<br>PCMP 384 2A682   |
| 0.0075<br>0.0082<br>0.0091<br>0.010  | 10.0 x 16.5 x 18.0 | 3.1                | PCMP 384 22752<br>PCMP 384 22822<br>PCMP 384 22912<br>PCMP 384 22103   | PCMP 384 2A752<br>PCMP 384 2A822<br>PCMP 384 2A912<br>PCMP 384 2A103   |

\* Capacitance tolerance  $\pm$  10%

# AC and Pulse Double Side Metallized Polypropylene film Capacitors

PCMP 384

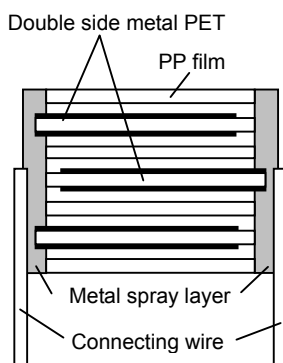
 $V_{Rdc} = 2500 V$  $V_{Rac} = 900 V$ 

| Cap<br>( $\mu F$ )        | b x h x l<br>(mm)  | Mess<br>(g)        | CATALOGUE NUMBER        |                                     |  |
|---------------------------|--------------------|--------------------|-------------------------|-------------------------------------|--|
|                           |                    |                    | PCMP 384 .....          |                                     |  |
|                           |                    |                    | loose in box            | ammo packing                        |  |
|                           |                    |                    | lt = 5.0 $\pm$ 1.0 mm   | H = 16.0 mm<br>Reduced pitch(7.5mm) |  |
|                           |                    | C - tol. $\pm$ 5 % |                         | C - tol. $\pm$ 5 %                  |  |
| Pitch = 22.5 $\pm$ 0.4 mm |                    |                    | dt = 0.8 +0.08/-0.05 mm |                                     |  |
| 0.0010                    | 6.0 x 15.5 x 26.0  | 2.9                | PCMP 384 02102          | -                                   |  |
| 0.0011                    |                    |                    | PCMP 384 02112          | -                                   |  |
| 0.0012                    |                    |                    | PCMP 384 02122          | -                                   |  |
| 0.0013                    |                    |                    | PCMP 384 02132          | -                                   |  |
| 0.0015                    |                    |                    | PCMP 384 02152          | -                                   |  |
| 0.0016                    |                    |                    | PCMP 384 02162          | -                                   |  |
| 0.0018                    |                    |                    | PCMP 384 02182          | -                                   |  |
| 0.0020                    |                    |                    | PCMP 384 02202          | -                                   |  |
| 0.0022                    |                    |                    | PCMP 384 02222          | -                                   |  |
| 0.0024                    |                    |                    | PCMP 384 02242          | -                                   |  |
| 0.0027                    |                    |                    | PCMP 384 02272          | -                                   |  |
| 0.0030                    |                    |                    | PCMP 384 02302          | -                                   |  |
| 0.0033                    |                    |                    | PCMP 384 02332          | -                                   |  |
| 0.0036                    |                    |                    | PCMP 384 02362          | -                                   |  |
| 0.0039                    |                    |                    | PCMP 384 02392          | -                                   |  |
| 0.0043                    |                    |                    | PCMP 384 02432          | -                                   |  |
| 0.0047                    | PCMP 384 02472     | -                  |                         |                                     |  |
| 0.0051                    | PCMP 384 02512     | -                  |                         |                                     |  |
| 0.0056                    | 7.0 x 16.5 x 26.0  | 3.2                | PCMP 384 02562          | -                                   |  |
| 0.0062                    |                    |                    | PCMP 384 02622          | -                                   |  |
| 0.0068                    |                    |                    | PCMP 384 02682          | -                                   |  |
| 0.0075                    |                    |                    | PCMP 384 02752          | -                                   |  |
| 0.0082                    | 8.5 x 18.0 x 26.0  | 4.4                | PCMP 384 02822          | -                                   |  |
| 0.0091                    |                    |                    | PCMP 384 02912          | -                                   |  |
| 0.010                     |                    |                    | PCMP 384 02103          | -                                   |  |
| 0.011                     |                    |                    | PCMP 384 02113          | -                                   |  |
| 0.012                     | 10.0 x 19.5 x 26.0 | 5.5                | PCMP 384 02123          | -                                   |  |
| 0.013                     |                    |                    | PCMP 384 02133          | -                                   |  |
| 0.015                     |                    |                    | PCMP 384 02153          | -                                   |  |

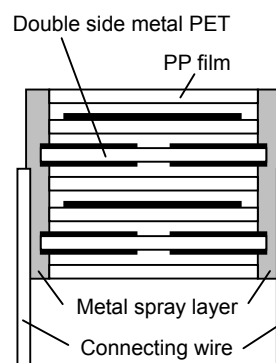
# AC and Pulse Double Side Metallized Polypropylene film Capacitors

## CONSTRUCTION

250V<sub>dc</sub> ~ 630V<sub>dc</sub> (< 400 V<sub>ac</sub>)



630V<sub>dc</sub> ~ 2000V<sub>dc</sub> ( 400 V<sub>ac</sub>)



## Description ;

- . Low - inductive wound cell of metallized polyester carrier film and polypropylene (PP) film.
- . Potted with blue epoxy resin in a blue flame-retardant polypropylene case.
- . Radial leads, tin-coated.
- . Small stand-off pips allow removal of solder flux etc. during cleaning of the printed circuit board.

## MOUNTING

### NORMAL USE

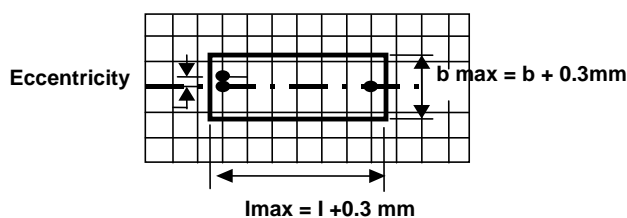
The capacitors are designed for mounting on printed-circuit boards. The capacitors packed in bandoliers are designed for mounting on printed-circuit boards by means of automatic insertion machines.

### SPECIFIC METHOD OF MOUNTING TO WITHSTAND VIBRATION AND SHOCK

- . For pitches of 15 mm the capacitors shall be mechanically fixed by the leads
- . For larger pitches the capacitors shall be mounted in the same way and the body clamped.

## SPACE REQUIREMENTS ON PRINTED-CIRCUIT BOARD

The maximum length and width of film capacitors are shown in the following drawing ;



- Eccentricity as in drawing.

The maximum eccentricity is smaller than or equal to the lead diameter of the product concerned.

- Product height with seating plane as given by IEC 60717 as reference :  $h_{max} = h + 0.3mm$

## STORAGE TEMPERATURE

- . Storage temperature :  $T_{stg} = -25$  to  $+40$  °C with RH maximum 80% without condensation.

## AC and Pulse Double Side Metallized Polypropylene film Capacitors

### RATINGS AND CHARACTERISTICS

Unless otherwise specified all electrical values apply at an ambient temperature of  $23 \pm 1^\circ\text{C}$ , an atmospheric pressure of 86 to 106 kPa and a relative humidity of  $50 \pm 2\%$ .

For reference testing a conditioning period shall be applied of  $96 \pm 4$  hours by heating the products in a circulating air oven at the rated temperature and a relative humidity not exceeding 20%.

### CHARACTERISTICS

#### • Test Voltage

- . Test Voltage ( between terminations ) :  $1.6 \times V_{Rdc}$ , 1min
- . Test Voltage ( between leads and Case ) :  $2840 V_{dc}$ , 1min

#### • Dissipation Factor

| Rated voltage                           | Capacitance  | Tangent of loss angle ( $\times 10^{-4}$ ) |         |
|---|--|--|---------|
|   |  | 10 KHz                                     | 100 KHz |
| 250 V ( $V_{Rac} = 125V\sim$ )          | C 0.082 $\mu\text{F}$ (P =10.0mm)                      | 5  | 15      |
|   | 0.068 $\mu\text{F}$ C 0.33 $\mu\text{F}$ (P =15.0mm)   | 5  | 25      |
|   | 0.33 $\mu\text{F}$ < C 1.0 $\mu\text{F}$               | 5  | 45      |
| 400 V ( $V_{Rac} = 220V\sim$ )          | C 0.047 $\mu\text{F}$ (P =10.0mm)                      | 5  | 15      |
|   | 0.033 $\mu\text{F}$ < C 0.22 $\mu\text{F}$ (P =15.0mm) | 5  | 20      |
|   | 0.22 $\mu\text{F}$ C 0.47 $\mu\text{F}$ (P =22.5mm)    | 10   | 40      |
| 630 V<br>( $V_{Rac} = 250V\sim$ , mini) | C 0.030 $\mu\text{F}$ (P =10.0mm)                      | 5  | 15      |
|   | 0.01 $\mu\text{F}$ C 0.15 $\mu\text{F}$ (P =15.0mm)    | 5  | 15      |
|   | 0.15 $\mu\text{F}$ < C 0.27 $\mu\text{F}$              | 8  | 20      |
| 630 V ( $V_{Rac} = 400V\sim$ )          | C 0.018 $\mu\text{F}$                                  | 4  | 12      |
|   | 0.018 $\mu\text{F}$ < C 0.1 $\mu\text{F}$ (P =15.0mm)  | 5  | 15      |
|   | 0.1 $\mu\text{F}$ C 0.33 $\mu\text{F}$ (P =22.5mm)     | 8  | 25      |
|   | 0.24 $\mu\text{F}$ C (P =27.5mm)                       | 10   | 40      |
| 630 V ( $V_{Rac} = 250V\sim$ , old)     | C 0.1 $\mu\text{F}$                                    | 5  | 15      |
|   | 0.1 $\mu\text{F}$ < C 0.22 $\mu\text{F}$               | 8  | 20      |
| 800V ( $V_{Rac} = 450V\sim$ )           | C 0.091 $\mu\text{F}$                                  | 5  | 15      |
| 1000 V ( $V_{Rac} = 450V\sim$ )         | C 0.027 $\mu\text{F}$ (P =15.0mm)                      | 4  | 15      |
|   | 0.012 $\mu\text{F}$ C 0.039 $\mu\text{F}$ (P =22.5mm)  | 6  | 20      |
| 1000 V ( $V_{Rac} = 500V\sim$ )         | C 0.0056 $\mu\text{F}$                                 | 4  | 15      |
|   | 0.0056 $\mu\text{F}$ < C 0.039 $\mu\text{F}$           | 6  | 20      |
|   | 0.039 $\mu\text{F}$ < C 0.1 $\mu\text{F}$              | 8  | 25      |
|   | 0.11 $\mu\text{F}$ C                                   | 10   | 30      |
| 1250V ( $V_{Rac} = 550V\sim$ )          | C 0.047 $\mu\text{F}$                                  | 6  | 15      |
|   | 0.051 $\mu\text{F}$ C                                  | 8  | 25      |
| 1600 V ( $V_{Rac} = 630V\sim$ )         | C 0.018 $\mu\text{F}$ (P =15.0mm)                      | 5  | 15      |
|   | 0.0056 $\mu\text{F}$ C 0.047 $\mu\text{F}$ (P =22.5mm) | 5  | 20      |
|   | 0.039 $\mu\text{F}$ C (P =27.5mm)                      | 10   | 25      |
| 2000 V ( $V_{Rac} = 680V\sim$ )         | C 0.015 $\mu\text{F}$ (P =15.0mm)                      | 5  | 15      |
|   | 0.0051 $\mu\text{F}$ C 0.024 $\mu\text{F}$ (P =22.5mm) | 5  | 20      |
| 2000 V ( $V_{Rac} = 700V\sim$ )         | C 0.01 $\mu\text{F}$                                   | 5  | 15      |
| 2500 V ( $V_{Rac} = 900V\sim$ )         | C 0.015 $\mu\text{F}$                                  | 5  | 15      |

## AC and Pulse Double Side Metallized Polypropylene film Capacitors

### • Insulation Resistance

The insulation resistance is measured for 1 min  $\pm$ 5s, at 100V for  $V_{Rdc} < 630V$ , at 500V for  $V_{Rdc} \geq 630V$   
Between terminals :

$$C \leq 0.33\mu F : R > 100\,000\,M\Omega$$

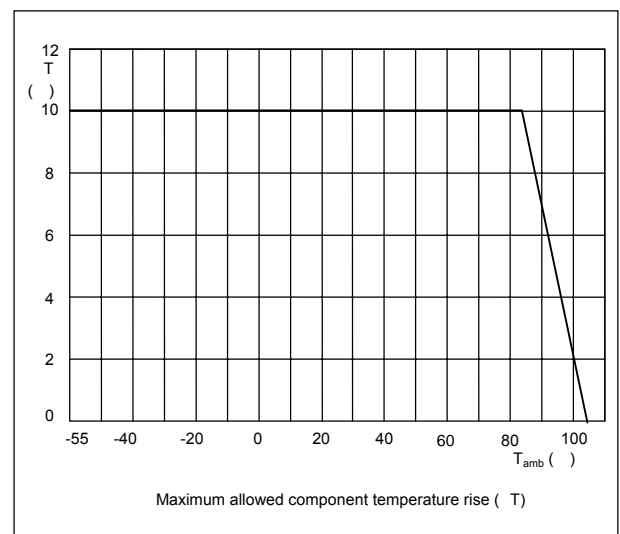
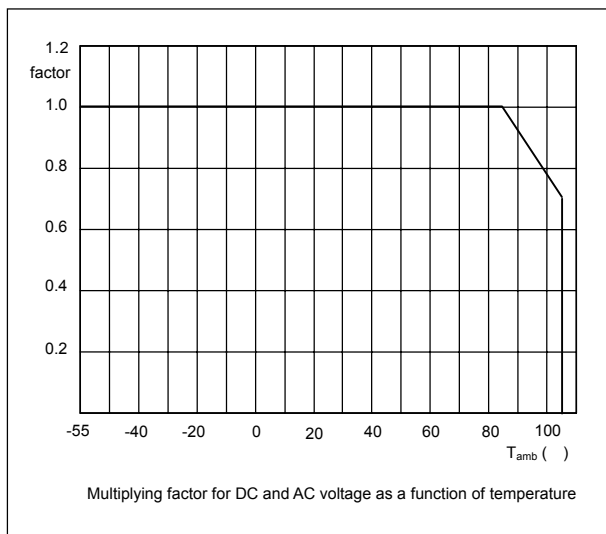
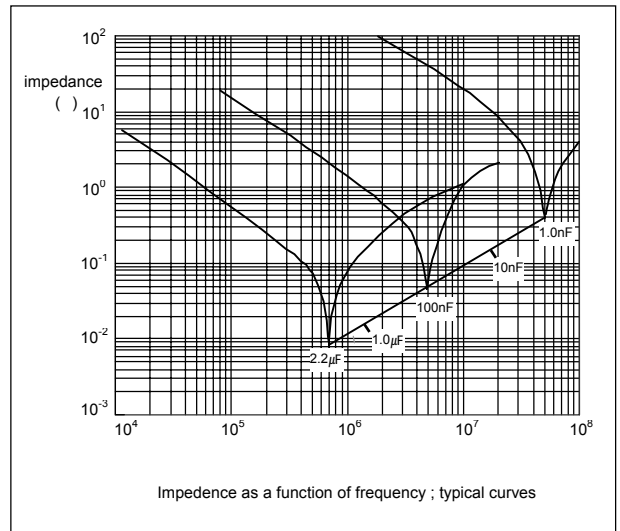
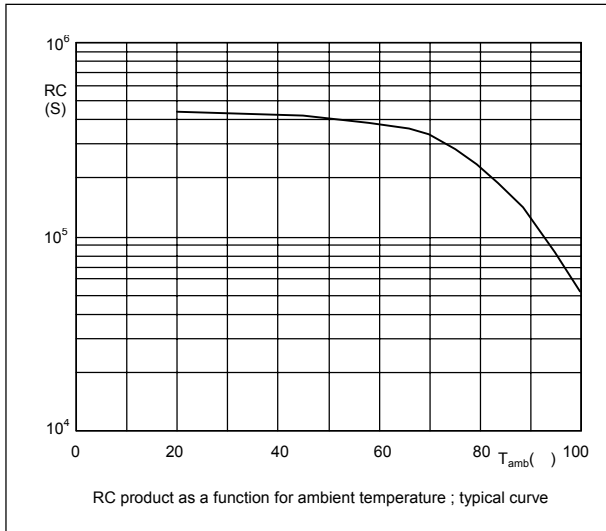
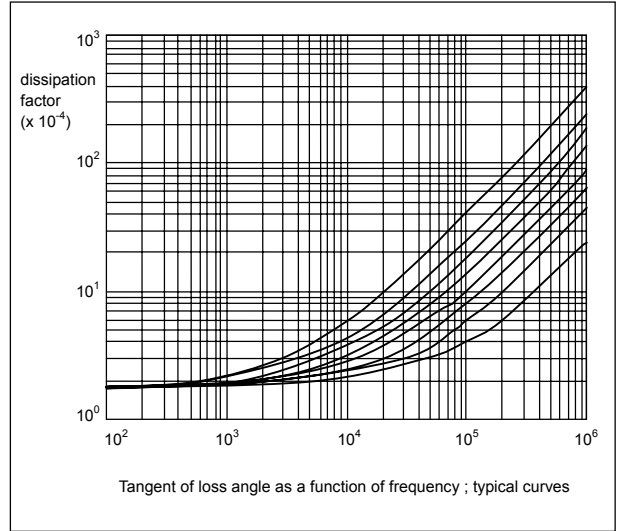
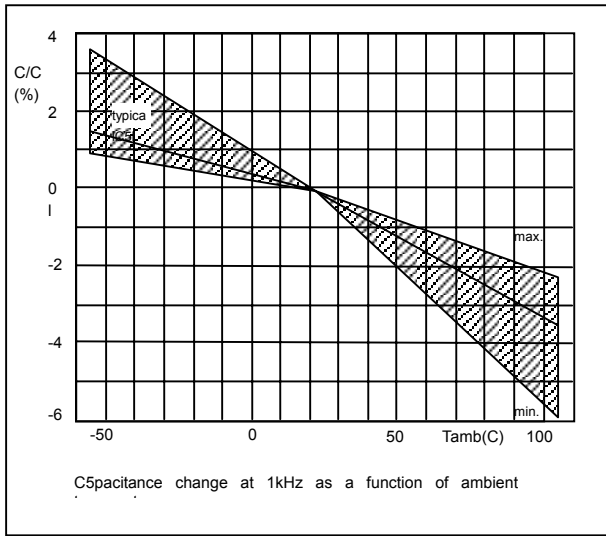
$$C > 0.33\mu F : RC \geq 30\,000\,s$$

### • Rated Voltage Pulse Load Slope (dV/dt)<sub>R</sub>

For values see specific reference data. If the pulse voltage is lower than the rated voltage, the values of the specific reference data must be multiplied by  $V_{Rdc}$  and divided by the applied voltage

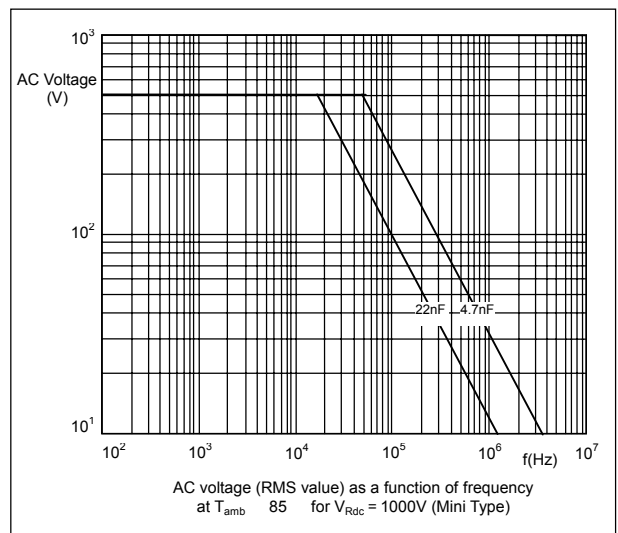
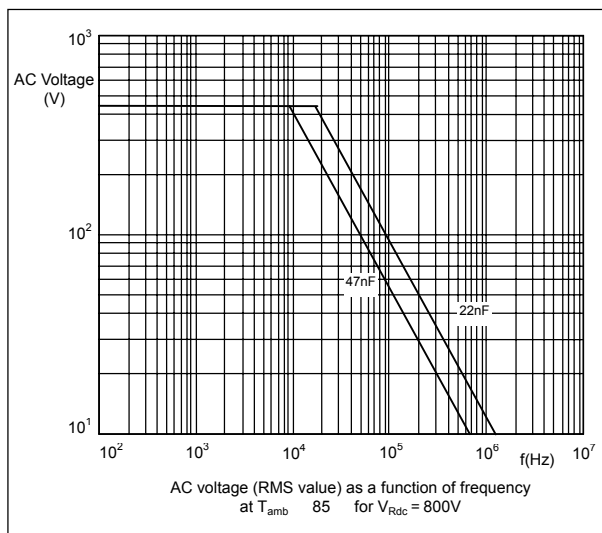
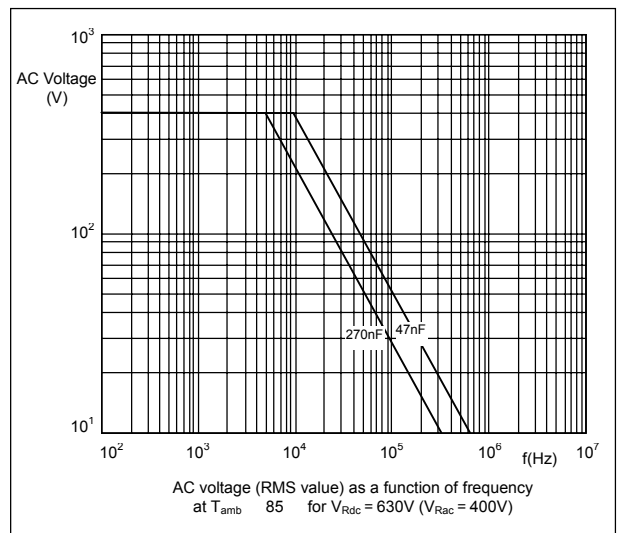
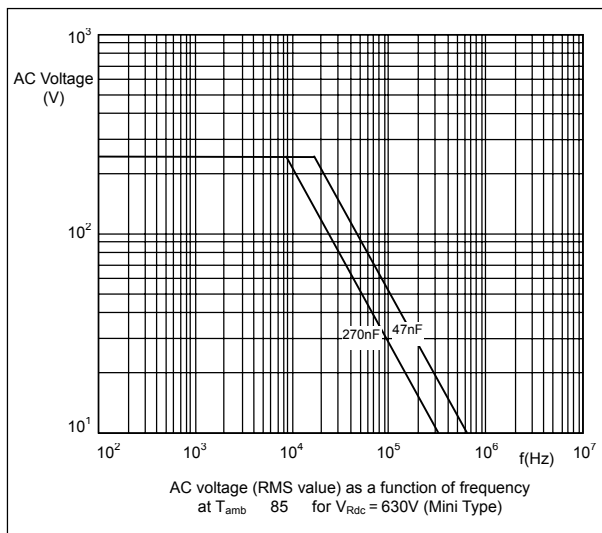
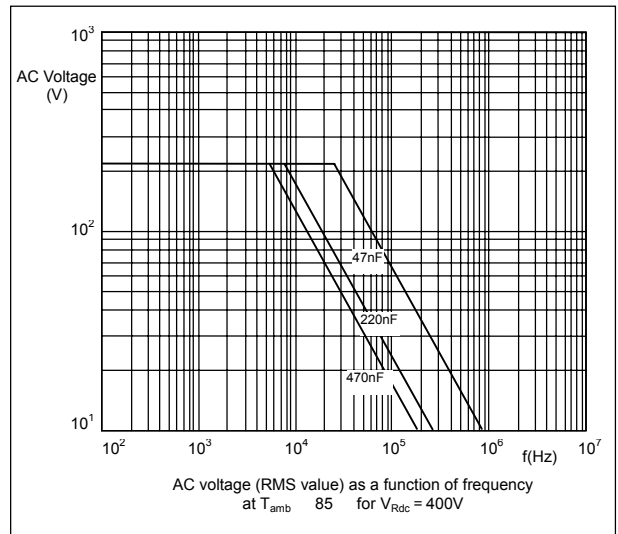
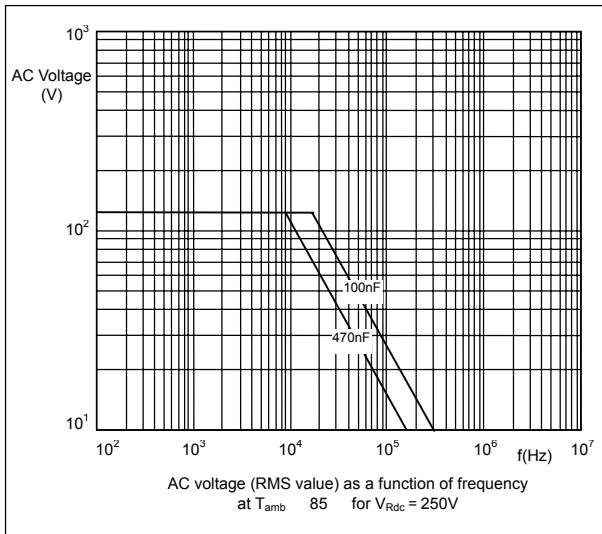
| Rated voltage                       | Rated voltage pulse slope (V/ $\mu$ s) |             |             |             |
|-------------------------------------|--|-------------|-------------|-------------|
|                                     | P = 10.0 mm                            | P = 15.0 mm | P = 22.5 mm | P = 27.5 mm |
| 250 V                               | 1000                                   | 550         | 250         | -           |
| 400 V                               | 1200                                   | 700         | 400         | -           |
| 630V                                | 1500                                   | 900         | 500         | 400         |
| 630 V ( $V_{Rac} = 400V\tilde{}$ )  | 3000                                   | 2500        | 1500        | 900         |
| 800 V                               | -                                      | 3000        | -           | -           |
| 1000 V                              | 4800                                   | 3300        | 2100        | 1200        |
| 1250 V                              | -                                      | 4500        | 2500        | 1400        |
| 1600 V                              | -                                      | 6000        | 3000        | 2000        |
| 2000 V ( $V_{Rac} = 680V\tilde{}$ ) | -                                      | 9500        | 3500        | 2300        |
| 2000 V ( $V_{Rac} = 700V\tilde{}$ ) | -                                      | 11000       | -           | -           |
| 2500 V                              | -                                      | -           | 11000       | -           |

THE GRAPHS OF CHARACTERISTICS



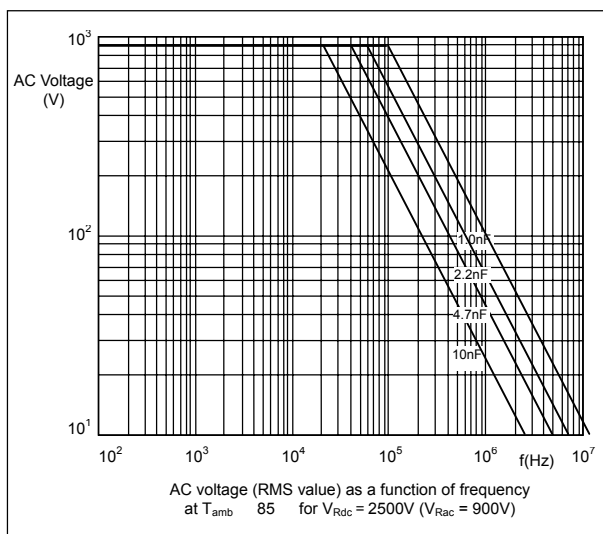
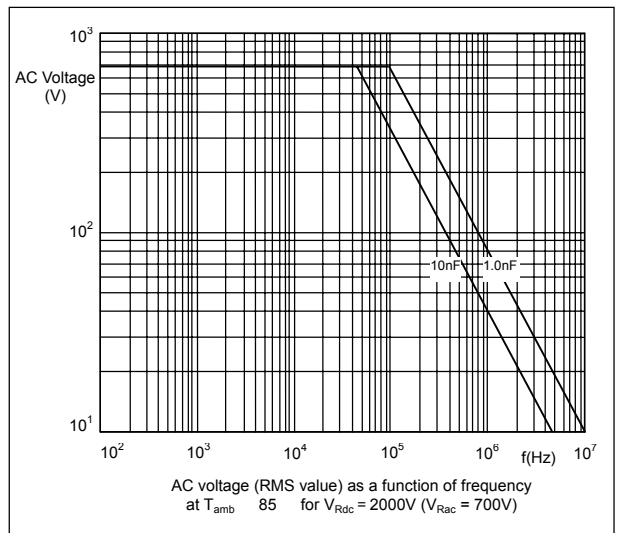
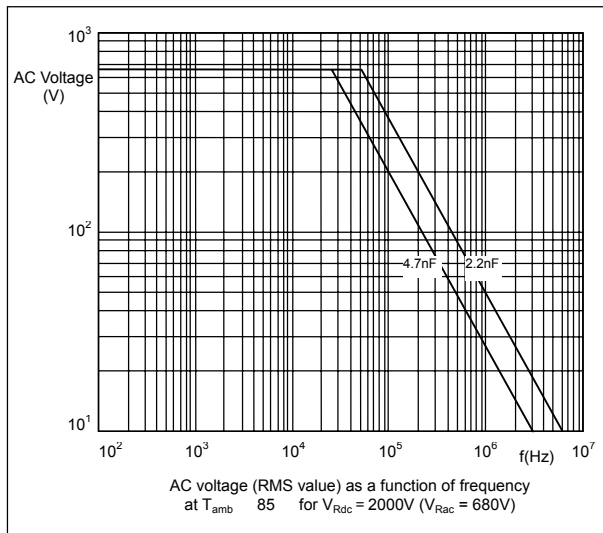
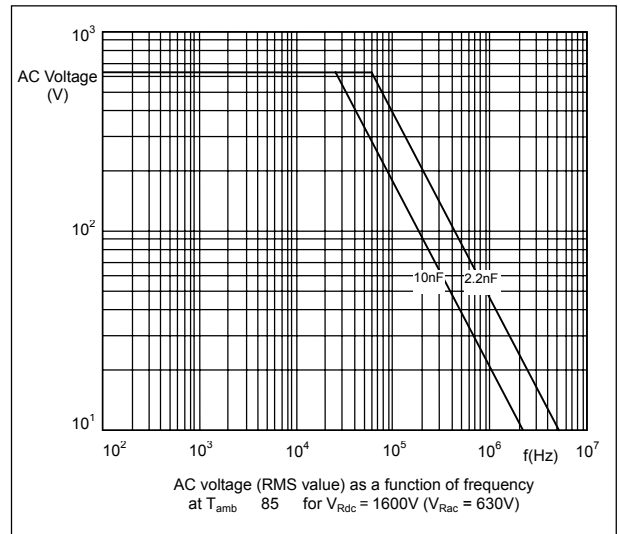
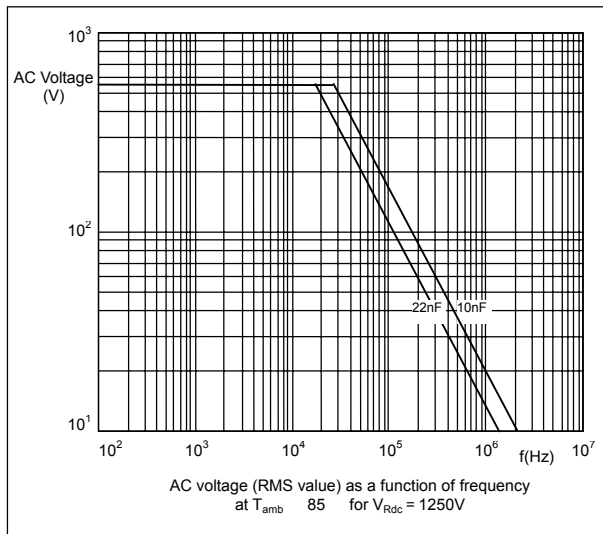
# AC and Pulse Double Side Metallized Polypropylene film Capacitors

## MAXIMUM RMS VOLTAGE (SINEWAVE) AS A FUNCTION OF FREQUENCY



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### APPLICATION NOTE AND LIMITING CONDITIONS

These capacitors are not suitable for mains application as across-the-line capacitors without additional protection.

To select the capacitor for a certain application, the following conditions must be checked :

1. The peak voltage ( $V_p$ ) shall not be greater than the rated DC voltage ( $V_{Rdc}$ ).
2. The peak-to-peak voltage ( $V_{p-p}$ ) shall not be greater than the maximum  $V_{p-p}$  to avoid the ionisation inception level.
3. The voltage pulse slope ( $dV/dt$ ) shall not exceed the rated voltage pulse slope in an RC-circuit at rated voltage and without ringing. If the pulse voltage is lower than the rated DC voltage, the rated voltage pulse slope may be multiplied by  $V_{Rdc}$  and divided by the applied voltage.  
For all other pulses following equation must be fulfilled :

$$2 \times \int_0^T \left( \frac{dU}{dt} \right)^2 \times dt < U_{Rdc} \times \left( \frac{dU}{dt} \right)_{rated}$$

T is the pulse duration.

4. The maximum component surface temperature rise must be lower than the limits.

#### Voltage conditions for aboves.

| ALLOWED VOLTAGES                                  | $T_{amb} \leq 85^\circ\text{C}$ | $85^\circ\text{C} < T_{amb} \leq 105^\circ\text{C}$ |
|---|---------------------------------|---|
| Maximum continuous RMS voltage                    | $V_{Rac}$                       | $0.75 \times V_{Rac}$                               |
| Maximum temporary RMS over voltage<br>(<24 hours) | $1.25 \times V_{Rac}$           | $1.0 \times V_{Rac}$                                |
| Maximum peak voltage ( $V_{o-p}$ ) (<2s)          | $1.6 \times V_{Rdc}$            | $1.1 \times V_{Rdc}$                                |

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## PRODUCT MARKING

The capacitors are marked with the following information :

- . Rated capacitance in code according to IEC 60062
- . Tolerance on rated capacitance J =  $\pm 5\%$  A =  $\pm 3.5\%$
- . Rated DC voltage or rated AC voltage (e.g. 1000 V or 700Vac)
- . Manufacturer's type designation (384)
- . Code for dielectric material (MMKP)
- . Manufacturer's name (PILKOR)
- . Year and week of manufacture (e.g. 1101)

### Example of marking

Pitch = 10.0 mm

|                                       |
|---------------------------------------|
| 4n7 J 630V<br>384 MMKP ....<br>PILKOR |
|---------------------------------------|

Marking on the side

Pitch = 15.0 mm

|                         |
|-------------------------|
| 33n J 1000V<br>384 MMKP |
|-------------------------|

Marking on the top

|                   |
|-------------------|
| PILKOR<br>WK..... |
|-------------------|

Marking on the side

at 400Vac

|                             |
|-----------------------------|
| 20n J 630V<br>384 MMKP 400~ |
|-----------------------------|

|                   |
|-------------------|
| PILKOR<br>WK..... |
|-------------------|

at 700Vac

|                              |
|------------------------------|
| 12n J 2000V<br>384 MMKP 700~ |
|------------------------------|

|                   |
|-------------------|
| PILKOR<br>WK..... |
|-------------------|

Pitch 22.5 mm

|                         |
|-------------------------|
| 47n J 1000V<br>384 MMKP |
|-------------------------|

Marking on the top

|                  |
|------------------|
| PILKOR<br>WK.... |
|------------------|

Marking on the side

at 400Vac

|                              |
|------------------------------|
| 110n J 630V<br>384 MMKP 400~ |
|------------------------------|

|                   |
|-------------------|
| PILKOR<br>WK..... |
|-------------------|

or

|                         |                  |
|-------------------------|------------------|
| 47n J 1000V<br>384 MMKP | PILKOR<br>WK.... |
|-------------------------|------------------|

Marking on the top