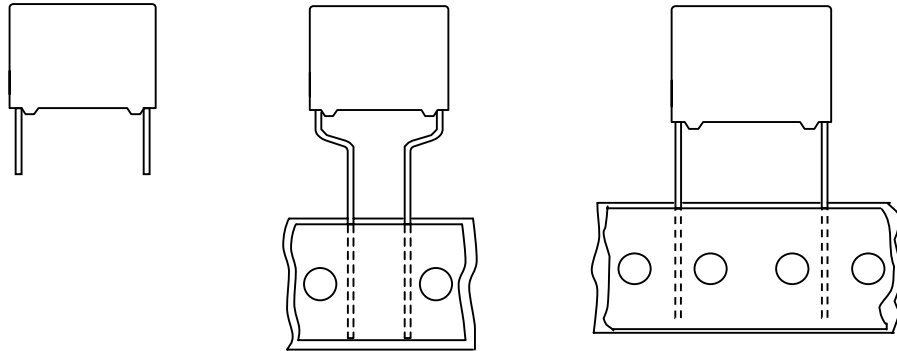


**Metallized Polyester  
film capacitors**

**PCMT 468**

**MKT RADIAL POTTED CAPACITORS**

**Pitch 10.0/15.0/22.5/27.5mm  
(reduced pitch ; 7.5mm)**



**QUICK REFERENCE DATA**

|                                  |                                      |
|----------------------------------|--------------------------------------|
| Capacitance range (E24 series)   | 0.01 to 12 $\mu$ F                   |
| Capacitance tolerance            | $\pm$ 5%, $\pm$ 10%,                 |
| Rated voltage (DC)               | 100V, 250V, 400V, 630V               |
| Climatic category                | 55/105/56                            |
| Temperature range                | -55 ~ +105                           |
| Reference specification          | IEC 60384-2                          |
| Potting & Encapsulation material | Qualified in accordance with UL94V-0 |

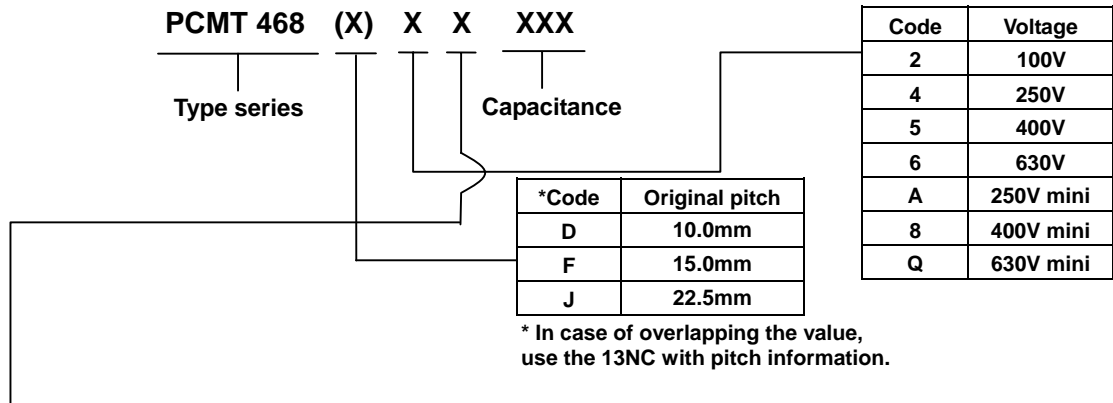
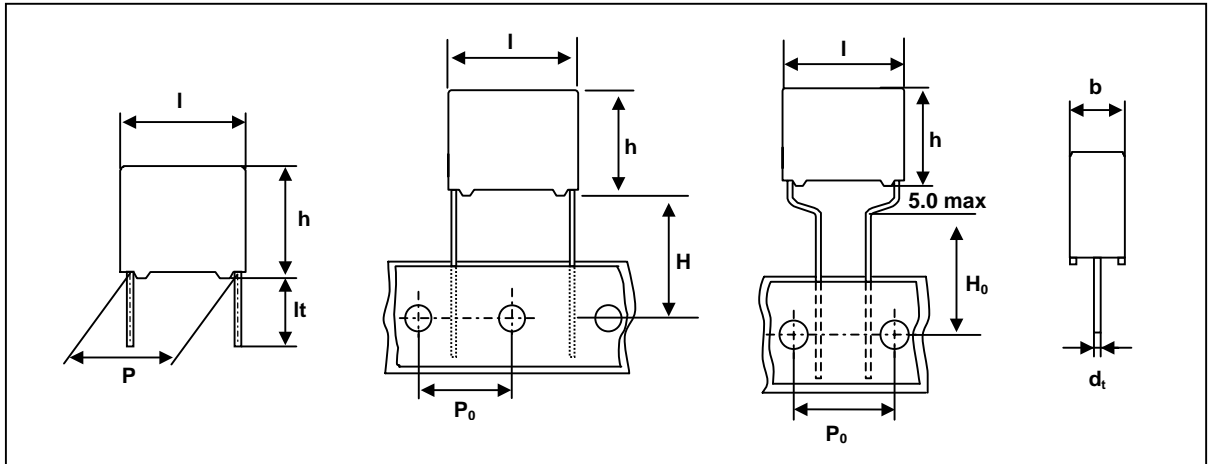
|  |   |
|--|---|
| <b>FEATURES</b>  | <b>APPLICATIONS</b>   |
| <ul style="list-style-type: none"> <li>. Low inductive wound cell of metallized (PETP) film</li> <li>. Supplied loose in box and ammopack</li> </ul> | <ul style="list-style-type: none"> <li>. General purpose</li> <li>. Blocking and coupling</li> <li>. Bypass and energy reservoir application</li> </ul> |

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

# Metallized Polyester film capacitors

PCMT 468

## Ordering Information



| Available versions |                |        |                         |                                | Product (I <sub>max</sub> ) |        |      |      |
|--------------------|----------------|--------|-------------------------|--------------------------------|-----------------------------|--------|------|------|
| Code               | Packing method | C-tol. | Lead length & Height    | Hole to hole (P <sub>0</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 |
| 3                  | Loose in box   | ± 10%  | lt = 5.0±1.0mm          | -                              | 10.0                        | 15.0   | 22.5 | 27.5 |
| 4                  | Loose in box   | ± 5%   | lt = 25.0±2.0mm         | -                              | 10.0                        | 15.0   | 22.5 | 27.5 |
| 5                  | Loose in box   | ± 10%  | lt = 25.0±2.0mm         | -                              | 10.0                        | 15.0   | 22.5 | 27.5 |
| 8                  | Ammo packing   | ± 5%   | H = 18.5mm              | 12.7mm                         | 10.0                        | 15.0   | 22.5 | 27.5 |
| 9                  | Ammo packing   | ± 10%  | 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(*) | -    | -    |
| B                  | Ammo packing   | ± 10%  | H <sub>0</sub> = 16.0mm | 15.0mm                         | 7.5(*)                      | 7.5(*) | -    | -    |

\* Reduced pitch ( reduced lead spacings )

**Metallized Polyester  
film capacitors**

PCMT 468

**Packaging Information**

| SMALLEST<br>PACKING QUANTITIES<br>( SPQ ) | Loose in box      |                    |
|---|-------------------|--------------------|
|   | lt = 5.0 ± 1.0 mm | lt = 25.0 ± 2.0 mm |
| DIMENSIONS                                | SPQ               | SPQ                |
| 4.0 x 10.0 x 12.5                         | 2000              | 1200               |
| 5.0 x 11.0 x 12.5                         | 1500              | 1000               |
| 6.0 x 12.0 x 12.5                         | 1000              | 1000               |
| 5.0 x 11.0 x 18.0                         | 1000              | 1000               |
| 6.0 x 12.0 x 18.0                         | 1000              | 1000               |
| 7.0 x 13.5 x 18.0                         | 1000              | 1000               |
| 8.5 x 15.0 x 18.0                         | 1000              | 1000               |
| 10.0 x 16.5 x 18.0                        | 1000              | 1000               |
| 11.0 x 18.5 x 18.0                        | 1000              | 1000               |
| 7.0 x 16.5 x 26.0                         | 1000              | 1000               |
| 8.5 x 18.0 x 26.0                         | 500               | 500                |
| 10.0 x 19.5 x 26.0                        | 500               | 500                |
| 13.0 x 23.0 x 26.0                        | 500               | 500                |
| 11.0 x 21.0 x 31.0                        | 500               | 250                |
| 13.0 x 23.0 x 31.0                        | 250               | 250                |
| 15.0 x 25.0 x 31.0                        | 250               | 250                |
| 18.0 x 28.0 x 31.0                        | 200               | 200                |

**Metallized Polyester  
film capacitors**
**PCMT 468**
 $V_{Rdc} = 100V$ 
 $V_{Rac} = 63V\sim$ 

| Cap.<br>( $\mu F$ )         | b x h x l<br>(mm)  | Mass<br>(g) | CATALOGUE NUMBER   |  |
|-----------------------------|--------------------|-------------|--|--|
|                             |                    |             | PCMT 468 .....   |  |
|                             |                    |             | loose in box   |  |
|                             |                    |             | lt = 5.0 $\pm$ 1.0 mm  |  |
|                             |                    |             | C-tol. $\pm$ 5 %   | C-tol. $\pm$ 10 %  |
| Pitch = 10.0 $\pm$ 0.4 mm   |                    |             | dt = 0.6 +0.06/-0.05 mm  |  |
| 0.22<br>0.27<br>0.33        | 4.0 x 10.0 x 12.5  | 0.8         | PCMT 468 22224<br>PCMT 468 22274<br>PCMT 468 22334                   | PCMT 468 23224<br>PCMT 468 23274<br>PCMT 468 23334                   |
| 0.39<br>0.47                | 5.0 x 11.0 x 12.5  | 0.9         | PCMT 468 22394<br>PCMT 468 22474                                     | PCMT 468 23394<br>PCMT 468 23474                                     |
| 0.56<br>0.68<br>0.82<br>1.0 | 6.0 x 12.0 x 12.5  | 1.0         | PCMT 468 22564<br>PCMT 468 22684<br>PCMT 468D22824<br>PCMT 468D22105 | PCMT 468 23564<br>PCMT 468 23684<br>PCMT 468D23824<br>PCMT 468D23105 |
| 1.2<br>1.5                  | 5.0 x 11.0 x 12.5  | 0.9         | PCMT 468D22125<br>PCMT 468D22155                                     | PCMT 468D23125<br>PCMT 468D23155                                     |
| 1.8<br>2.2                  | 6.0 x 12.0 x 12.5  | 1.0         | PCMT 468D22185<br>PCMT 468D22225                                     | PCMT 468D23185<br>PCMT 468D23225                                     |
| Pitch = 15.0 $\pm$ 0.4 mm   |                    |             | dt = 0.8 +0.08/-0.05 mm  |  |
| 0.82                        | 5.0 x 11.0 x 18.0  | 1.2         | PCMT 468 22824   | PCMT 468 23824   |
| 1.0<br>1.2                  | 6.0 x 12.0 x 18.0  | 1.4         | PCMT 468 22105<br>PCMT 468 22125                                     | PCMT 468 23105<br>PCMT 468 23125                                     |
| 1.5                         | 7.0 x 13.5 x 18.0  | 1.9         | PCMT 468 22155   | PCMT 468 23155   |
| 1.8<br>2.2                  | 8.5 x 15.0 x 18.0  | 2.6         | PCMT 468 22185<br>PCMT 468 22225                                     | PCMT 468 23185<br>PCMT 468 23225                                     |
| 2.7                         | 10.0 x 16.5 x 18.0 | 3.1         | PCMT 468F22275   | PCMT 468F23275   |
| 3.3                         | 11.0 x 18.5 x 18.0 | 4.1         | PCMT 468F22335   | PCMT 468F23335   |
| Pitch = 22.5 $\pm$ 0.4 mm   |                    |             | dt = 0.8 +0.08/-0.05 mm  |  |
| 2.7<br>3.3                  | 7.0 x 16.5 x 26.0  | 3.2         | PCMT 468 22275<br>PCMT 468 22335                                     | PCMT 468 23275<br>PCMT 468 23335                                     |
| 3.9<br>4.7                  | 8.5 x 18.0 x 26.0  | 4.4         | PCMT 468 22395<br>PCMT 468 22475                                     | PCMT 468 23395<br>PCMT 468 23475                                     |
| 5.6<br>6.8                  | 10.0 x 19.5 x 26.0 | 5.5         | PCMT 468 22565<br>PCMT 468 22685                                     | PCMT 468 23565<br>PCMT 468 23685                                     |

# Metallized Polyester film capacitors

# PCMT 468

| $V_{Rdc} = 250V$                     |                    | $V_{Rac} = 160V\sim$    |  |  |
|--------------------------------------|--------------------|-------------------------|--|--|
| Cap.<br>( $\mu F$ )                  | b x h x l<br>(mm)  | Mass<br>(g)             | CATALOGUE NUMBER   |  |
|                                      |                    |                         | PCMT 468 .....   |  |
|                                      |                    |                         | loose in box   |  |
|                                      |                    |                         | lt = 5.0 $\pm$ 1.0 mm  |  |
|                                      |                    | C-tol. $\pm$ 5 %        | C-tol. $\pm$ 10 %  |  |
| Pitch = 10.0 $\pm$ 0.4 mm            |                    | dt = 0.6 +0.06/-0.05 mm |  |  |
| 0.1<br>0.12<br>0.15<br>0.18<br>0.22  | 4.0 x 10.0 x 12.5  | 0.8                     | PCMT 468 42104<br>PCMT 468 42124<br>PCMT 468 A2154<br>PCMT 468 A2184<br>PCMT 468 A2224 | PCMT 468 43104<br>PCMT 468 43124<br>PCMT 468 A3154<br>PCMT 468 A3184<br>PCMT 468 A3224 |
| 0.15<br>0.18<br>0.22<br>0.27<br>0.33 | 5.0 x 11.0 x 12.5  | 0.9                     | PCMT 468 42154<br>PCMT 468 42184<br>PCMT 468D42224<br>PCMT 468D42274<br>PCMT 468D42334 | PCMT 468 43154<br>PCMT 468 43184<br>PCMT 468D43224<br>PCMT 468D43274<br>PCMT 468D43334 |
| 0.39<br>0.47                         | 6.0 x 12.0 x 12.5  | 1.0                     | PCMT 468D42394<br>PCMT 468D42474   | PCMT 468D43394<br>PCMT 468D43474   |
| Pitch = 15.0 $\pm$ 0.4 mm            |                    | dt = 0.8 +0.08/-0.05 mm |  |  |
| 0.22<br>0.27<br>0.33<br>0.39<br>0.47 | 5.0 x 11.0 x 18.0  | 1.2                     | PCMT 468 42224<br>PCMT 468 42274<br>PCMT 468 42334<br>PCMT 468 A2394<br>PCMT 468 A2474 | PCMT 468 43224<br>PCMT 468 43274<br>PCMT 468 43334<br>PCMT 468 A3394<br>PCMT 468 A3474 |
| 0.39<br>0.47<br>0.56<br>0.68         | 6.0 x 12.0 x 18.0  | 1.4                     | PCMT 468 42394<br>PCMT 468 42474<br>PCMT 468 A2564<br>PCMT 468 A2684                   | PCMT 468 43394<br>PCMT 468 43474<br>PCMT 468 A3564<br>PCMT 468 A3684                   |
| 0.56<br>0.68<br>0.82<br>1.0          | 7.0 x 13.5 x 18.0  | 1.9                     | PCMT 468 42564<br>PCMT 468 42684<br>PCMT 468 A2824<br>PCMT 468 A2105                   | PCMT 468 43564<br>PCMT 468 43684<br>PCMT 468 A3824<br>PCMT 468 A3105                   |
| 0.82<br>1.0<br>1.2<br>1.5            | 8.5 x 15.0 x 18.0  | 2.6                     | PCMT 468 42824<br>PCMT 468 42105<br>PCMT 468F42125<br>PCMT 468F42155                   | PCMT 468 43824<br>PCMT 468 43105<br>PCMT 468F43125<br>PCMT 468F43155                   |
| 1.8                                  | 10.0 x 16.5 x 18.0 | 3.1                     | PCMT 468FA2185   | PCMT 468FA3185   |
| 2.2                                  | 11.0 x 18.5 x 18.0 | 4.1                     | PCMT 468FA2225   | PCMT 468FA3225   |
| Pitch = 22.5 $\pm$ 0.4 mm            |                    | dt = 0.8 +0.08/-0.05 mm |  |  |
| 1.0<br>1.2<br>1.5<br>1.8             | 7.0 x 16.5 x 26.0  | 3.2                     | PCMT 468J42105<br>PCMT 468 42125<br>PCMT 468 A2155<br>PCMT 468 A2185                   | PCMT 468J43105<br>PCMT 468 43125<br>PCMT 468 A3155<br>PCMT 468 A3185                   |
| 1.5<br>1.8<br>2.2<br>2.7             | 8.5 x 18.0 x 26.0  | 4.4                     | PCMT 468 42155<br>PCMT 468 42185<br>PCMT 468 A2225<br>PCMT 468 A2275                   | PCMT 468 43155<br>PCMT 468 43185<br>PCMT 468 A3225<br>PCMT 468 A3275                   |
| 2.2<br>2.7<br>3.3<br>3.9             | 10.0 x 19.5 x 26.0 | 5.5                     | PCMT 468 42225<br>PCMT 468 42275<br>PCMT 468J42335<br>PCMT 468JA2395                   | PCMT 468 43225<br>PCMT 468 43275<br>PCMT 468J43335<br>PCMT 468JA3395                   |
| 3.9<br>4.7<br>5.6                    | 13.0 x 23.0 x 26.0 | 9.7                     | PCMT 468J42395<br>PCMT 468J42475<br>PCMT 468JA2565                                     | PCMT 468J43395<br>PCMT 468J43475<br>PCMT 468JA3565                                     |
| Pitch = 27.5 $\pm$ 0.4 mm            |                    | dt = 0.8 +0.08/-0.05 mm |  |  |
| 3.3<br>3.9<br>4.7<br>5.6             | 11.0 x 21.0 x 31.0 | 7.8                     | PCMT 468 42335<br>PCMT 468 A2395<br>PCMT 468 A2475<br>PCMT 468 A2565                   | PCMT 468 43335<br>PCMT 468 A3395<br>PCMT 468 A3475<br>PCMT 468 A3565                   |
| 3.9<br>4.7<br>5.6<br>6.8             | 13.0 x 23.0 x 31.0 | 10.4                    | PCMT 468 42395<br>PCMT 468 42475<br>PCMT 468 42565<br>PCMT 468 A2685                   | PCMT 468 43395<br>PCMT 468 43475<br>PCMT 468 43565<br>PCMT 468 A3685                   |
| 6.8<br>8.2<br>10                     | 15.0 x 25.0 x 31.0 | 12.8                    | PCMT 468 42685<br>PCMT 468 A2825<br>PCMT 468 A2106                                     | PCMT 468 43685<br>PCMT 468 A3825<br>PCMT 468 A3106                                     |
| 12                                   | 18.0 x 28.0 x 31.0 | 19.6                    | PCMT 468 A2126   | PCMT 468 A3126   |

# Metallized Polyester film capacitors

PCMT 468

 $V_{Rdc} = 400V$  $V_{Rac} = 220V^{~~}$ 

mini type

| Cap.<br>( $\mu F$ )  | b x h x l<br>(mm)  | Mass<br>(g) | CATALOGUE NUMBER   |  |
|--|--------------------|-------------|--|--|
|  |                    |             | PCMT 468 .....   |  |
|  |                    |             | loose in box   |  |
|  |                    |             | lt = 5.0 $\pm$ 1.0 mm  |  |
|  |                    |             | C-tol. $\pm$ 5 %   | C-tol. $\pm$ 10 %  |
| Pitch = 10.0 $\pm$ 0.4 mm  |                    |             | dt = 0.6 +0.06/-0.05 mm  |  |
| 0.01<br>0.012<br>0.015<br>0.018<br>0.022<br>0.027<br>0.033<br>0.039<br>0.047 | 4.0 x 10.0 x 12.5  | 0.8         | PCMT 468 82103<br>PCMT 468 82123<br>PCMT 468 82153<br>PCMT 468 82183<br>PCMT 468 82223<br>PCMT 468 82273<br>PCMT 468 82333<br>PCMT 468 82393<br>PCMT 468 82473 | PCMT 468 83103<br>PCMT 468 83123<br>PCMT 468 83153<br>PCMT 468 83183<br>PCMT 468 83223<br>PCMT 468 83273<br>PCMT 468 83333<br>PCMT 468 83393<br>PCMT 468 83473 |
| 0.056<br>0.068   | 5.0 x 11.0 x 12.5  | 0.9         | PCMT 468 82563<br>PCMT 468 82683   | PCMT 468 83563<br>PCMT 468 83683   |
| 0.082<br>0.1   | 6.0 x 12.0 x 12.5  | 1.0         | PCMT 468 82823<br>PCMT 468 82104   | PCMT 468 83823<br>PCMT 468 83104   |
| Pitch = 15.0 $\pm$ 0.4 mm  |                    |             | dt = 0.8 +0.08/-0.05 mm  |  |
| 0.12<br>0.15   | 5.0 x 11.0 x 18.0  | 1.2         | PCMT 468 82124<br>PCMT 468 82154   | PCMT 468 83124<br>PCMT 468 83154   |
| 0.15<br>0.18<br>0.20<br>0.22   | 6.0 x 12.0 x 18.0  | 1.4         | PCMT 468 52154<br>PCMT 468 82184<br>PCMT 468 82204<br>PCMT 468 82224   | PCMT 468 53154<br>PCMT 468 83184<br>PCMT 468 83204<br>PCMT 468 83224   |
| 0.22<br>0.27<br>0.33   | 7.0 x 13.5 x 18.0  | 1.9         | PCMT 468 52224<br>PCMT 468 82274<br>PCMT 468 82334   | PCMT 468 53224<br>PCMT 468 83274<br>PCMT 468 83334   |
| 0.33<br>0.39<br>0.47   | 8.5 x 15.0 x 18.0  | 2.6         | PCMT 468 52334<br>PCMT 468 82394<br>PCMT 468 82474   | PCMT 468 53334<br>PCMT 468 83394<br>PCMT 468 83474   |
| 0.56   | 10.0 x 16.5 x 18.0 |             | PCMT 468 82564   | PCMT 468 83564   |
| Pitch = 22.5 $\pm$ 0.4 mm  |                    |             | dt = 0.8 +0.08/-0.05 mm  |  |
| 0.47   | 7.0 x 16.5 x 26.0  | 3.2         | PCMT 468 52474   | PCMT 468 53474   |
| 0.68<br>0.82   | 8.5 x 18.0 x 26.0  | 4.4         | PCMT 468 82684<br>PCMT 468 82824   | PCMT 468 83684<br>PCMT 468 83824   |
| 1.0<br>1.2   | 10.0 x 19.5 x 26.0 | 5.5         | PCMT 468 82105<br>PCMT 468 82125   | PCMT 468 83105<br>PCMT 468 83125   |
| Pitch = 27.5 $\pm$ 0.4 mm  |                    |             | dt = 0.8 +0.08/-0.05 mm  |  |
| 1.2<br>1.5<br>1.8  | 11.0 x 21.0 x 31.0 | 7.8         | PCMT 468 52125<br>PCMT 468 82155<br>PCMT 468 82185   | PCMT 468 53125<br>PCMT 468 83155<br>PCMT 468 83185   |
| 2.2<br>2.7   | 13.0 x 23.0 x 31.0 | 12.8        | PCMT 468 82225<br>PCMT 468 82275   | PCMT 468 83225<br>PCMT 468 83275   |
| 3.3<br>3.9   | 15.0 x 25.0 x 31.0 | 17.2        | PCMT 468 82335<br>PCMT 468 82395   | PCMT 468 83335<br>PCMT 468 83395   |
| 4.7  | 18.0 x 28.0 x 31.0 | 19.6        | PCMT 468 82475   | PCMT 468 83475   |

; Larger type

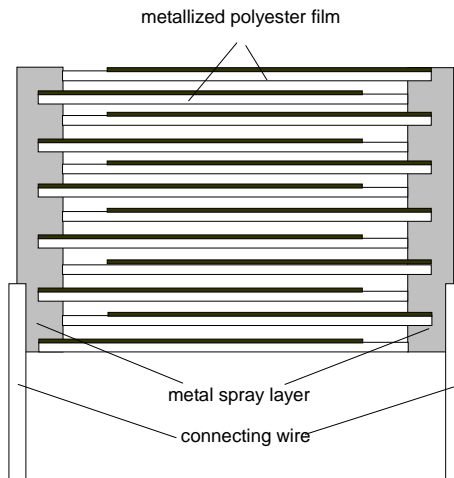
# Metallized Polyester film capacitors

PCMT 468

 $V_{Rdc} = 630V$  $V_{Rac} = 250V\sim$ 

| Cap.<br>( $\mu F$ )   | b x h x l<br>(mm)  | Mass<br>(g) | CATALOGUE NUMBER   |  |
|---|--------------------|-------------|--|--|
|   |                    |             | PCMT 468 .....   |  |
|   |                    |             | loose in box   |  |
|   |                    |             | lt = 5.0 $\pm$ 1.0 mm  |  |
|   |                    |             | C-tol. $\pm$ 5 %   | C-tol. $\pm$ 10 %  |
| Pitch = 10.0 $\pm$ 0.4 mm                                   |                    |             | dt = 0.6 +0.06/-0.05 mm  |  |
| 0.01<br>0.012   | 4.0 x 10.0 x 12.5  | 0.8         | PCMT 468 62103<br>PCMT 468 62123   | PCMT 468 63103<br>PCMT 468 63123   |
| 0.015<br>0.018<br>0.022<br>0.027<br>0.033<br>0.039<br>0.047 | 5.0 x 11.0 x 12.5  | 0.9         | PCMT 468 62153<br>PCMT 468 62183<br>PCMT 468 62223<br>PCMT 468 62273<br>PCMT 468 62333<br>PCMT 468 Q2393<br>PCMT 468DQ2473 | PCMT 468 63153<br>PCMT 468 63183<br>PCMT 468 63223<br>PCMT 468 63273<br>PCMT 468 63333<br>PCMT 468 Q3393<br>PCMT 468DQ3473 |
| 0.039<br>0.047<br>0.056<br>0.068                            | 6.0 x 12.0 x 12.5  | 1.0         | PCMT 468 62393<br>PCMT 468 62473<br>PCMT 468DQ2563<br>PCMT 468DQ2683   | PCMT 468 63393<br>PCMT 468 63473<br>PCMT 468DQ3563<br>PCMT 468DQ3683   |
| Pitch = 15.0 $\pm$ 0.4 mm                                   |                    |             | dt = 0.8 +0.08/-0.05 mm  |  |
| 0.047<br>0.056<br>0.068                                     | 5.0 x 11.0 x 18.0  | 1.2         | PCMT 468F62473<br>PCMT 468 62563<br>PCMT 468 Q2683   | PCMT 468F63473<br>PCMT 468 63563<br>PCMT 468 Q3683   |
| 0.068<br>0.082<br>0.1                                       | 6.0 x 12.0 x 18.0  | 1.4         | PCMT 468 62683<br>PCMT 468 62823<br>PCMT 468 Q2104   | PCMT 468 63683<br>PCMT 468 63823<br>PCMT 468 Q3104   |
| 0.1<br>0.12<br>0.15   | 7.0 x 13.5 x 18.0  | 1.9         | PCMT 468 62104<br>PCMT 468 62124<br>PCMT 468 Q2154   | PCMT 468 63104<br>PCMT 468 63124<br>PCMT 468 Q3154   |
| 0.15<br>0.18  | 8.5 x 15.0 x 18.0  | 2.6         | PCMT 468 62154<br>PCMT 468 62184   | PCMT 468 63154<br>PCMT 468 63184   |
| 0.22<br>0.27  | 10.0 x 16.5 x 18.0 | 3.1         | PCMT 468F62224<br>PCMT 468FQ2274   | PCMT 468F63224<br>PCMT 468FQ3274   |
| 0.33<br>0.39  | 11.0 x 18.5 x 18.0 | 4.1         | PCMT 468FQ2334<br>PCMT 468FQ2394   | PCMT 468FQ3334<br>PCMT 468FQ3394   |
| Pitch = 22.5 $\pm$ 0.4 mm                                   |                    |             | dt = 0.8 +0.08/-0.05 mm  |  |
| 0.22<br>0.27  | 7.0 x 16.5 x 26.0  | 3.2         | PCMT 468 62224<br>PCMT 468 62274   | PCMT 468 63224<br>PCMT 468 63274   |
| 0.33<br>0.39  | 8.5 x 18.0 x 26.0  | 4.4         | PCMT 468 62334<br>PCMT 468 62394   | PCMT 468 63334<br>PCMT 468 63394   |
| 0.47<br>0.56  | 10.0 x 19.5 x 26.0 | 5.5         | PCMT 468 62474<br>PCMT 468 62564   | PCMT 468 63474<br>PCMT 468 63564   |
| 0.68<br>0.82<br>1.0   | 13.0 x 23.0 x 26.0 | 9.7         | PCMT 468JQ2684<br>PCMT 468JQ2824<br>PCMT 468JQ2105   | PCMT 468JQ3684<br>PCMT 468JQ3824<br>PCMT 468JQ3105   |
| Pitch = 27.5 $\pm$ 0.4 mm                                   |                    |             | dt = 0.8 +0.08/-0.05 mm  |  |
| 0.68<br>0.82  | 11.0 x 21.0 x 31.0 | 7.8         | PCMT 468 62684<br>PCMT 468 Q2824   | PCMT 468 63684<br>PCMT 468 Q3824   |
| 0.82<br>1.0   | 13.0 x 23.0 x 31.0 | 10.4        | PCMT 468 62824<br>PCMT 468 Q2105   | PCMT 468 63824<br>PCMT 468 Q3105   |
| 1.0<br>1.2<br>1.5   | 15.0 x 25.0 x 31.0 | 12.8        | PCMT 468 62105<br>PCMT 468 Q2125<br>PCMT 468 Q2155   | PCMT 468 63105<br>PCMT 468 Q3125<br>PCMT 468 Q3155   |
| 1.2<br>1.8<br>2.2   | 18.0 x 28.0 x 31.0 | 17.2        | PCMT 468 62125<br>PCMT 468 Q2185<br>PCMT 468 Q2225   | PCMT 468 63125<br>PCMT 468 Q3185<br>PCMT 468 Q3225   |

**CONSTRUCTION**



**Description**

- . Low-inductive wound cell of metallized polyester film, potted in a epoxy resin in a 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.

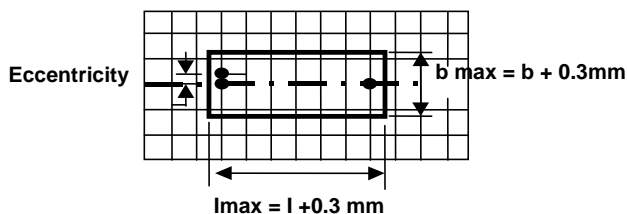
**SPECIFIC METHOD OF MOUNTING OF WITHSTAND VIBRATION AND SHOCK.**

In order to withstand vibration and shock tests, it must be ensured that the stand-off pips are in good contact with the printed-circuit boards.

- . For  $I_{max}$  18mm 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 :  $h_{max} \quad h+0.3mm$



## Metallized Polyester film capacitors

PCMT 468

### STORAGE TEMPERATURE

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

### RATINGS AND CHARACTERISTICS

Unless otherwise specified, all electrical values apply at an ambient free air temperature of  $23 \pm 1$  , 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 over  $96 \pm 4$  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 leads ) :  $1.6 \times V_{Rdc}$ , 1 min ( cut off current 10mA, rise time 100V/s )
- . Test Voltage ( between leads and case ) :  $2.0 \times V_{Rdc}$ , 1 min

#### ● Dissipation Factor

| Rated voltage | Capacitance        |     | Tangent of loss angle ( $\times 10^{-4}$ ) |        |     |
|---------------|--------------------|-----|--|--------|-----|
|               |                    |     | 1 KHz                                      | 10 KHz |     |
| 100V          | 0.27 $\mu\text{F}$ | < C | 1.0 $\mu\text{F}$                          | 75     | 130 |
|               | 1.0 $\mu\text{F}$  | < C | 6.8 $\mu\text{F}$                          | 75     | 150 |
| 250V          |                    | C   | 0.1 $\mu\text{F}$                          | 75     | 130 |
|               | 0.1 $\mu\text{F}$  | < C | 1.0 $\mu\text{F}$                          | 75     | 130 |
| 400V          | 1.0 $\mu\text{F}$  | < C | 12 $\mu\text{F}$                           | 75     | 150 |
|               |                    | C   | 0.1 $\mu\text{F}$                          | 75     | 130 |
| 630V          | 0.1 $\mu\text{F}$  | < C | 1.0 $\mu\text{F}$                          | 75     | 130 |
|               | 1.0 $\mu\text{F}$  | < C | 2.2 $\mu\text{F}$                          | 75     | 150 |

#### ● Insulation Resistance

The insulation resistance is measured after a voltage has been applied for 1 minute  $\pm 5$  seconds, the voltage being  $100 \pm 15\text{V}$  for the 100, 250 and 400V versions and  $500 \pm 50\text{V}$  for the 630V versions.

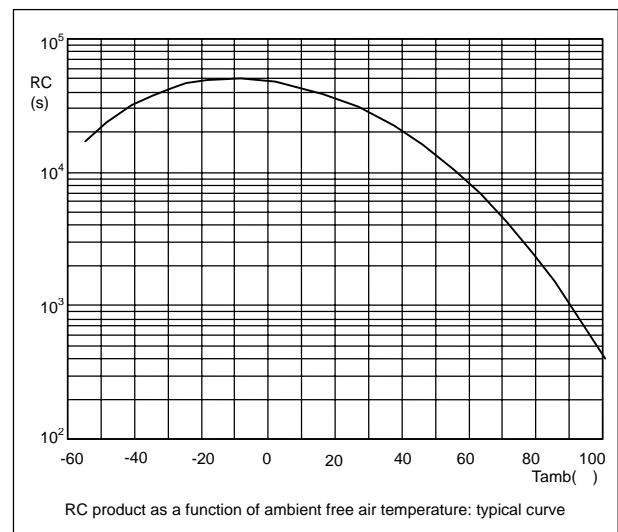
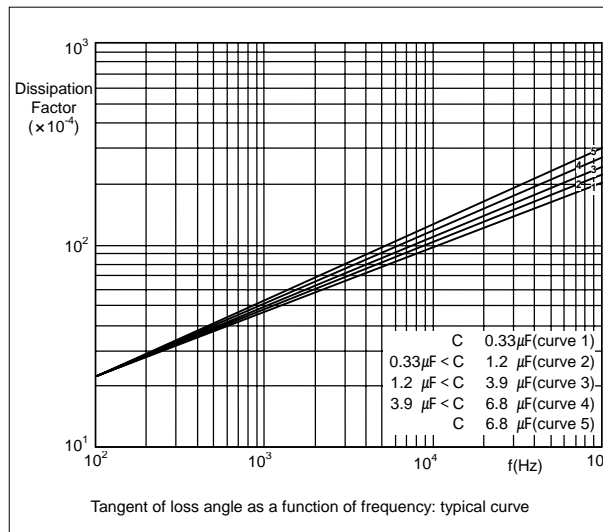
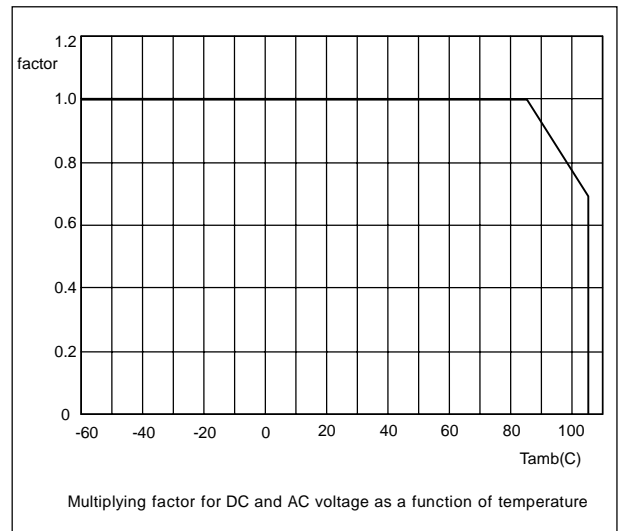
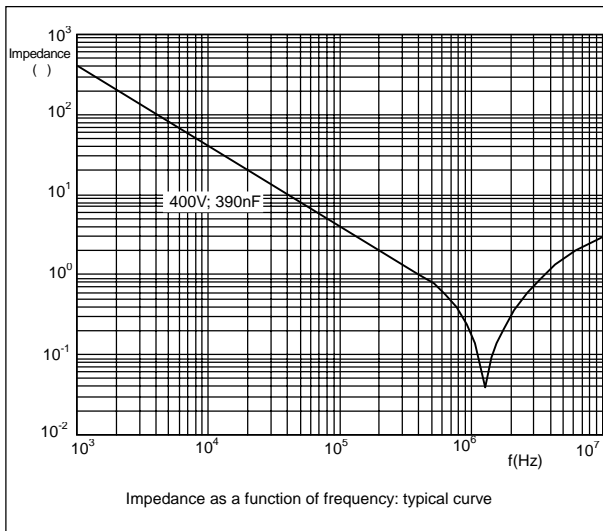
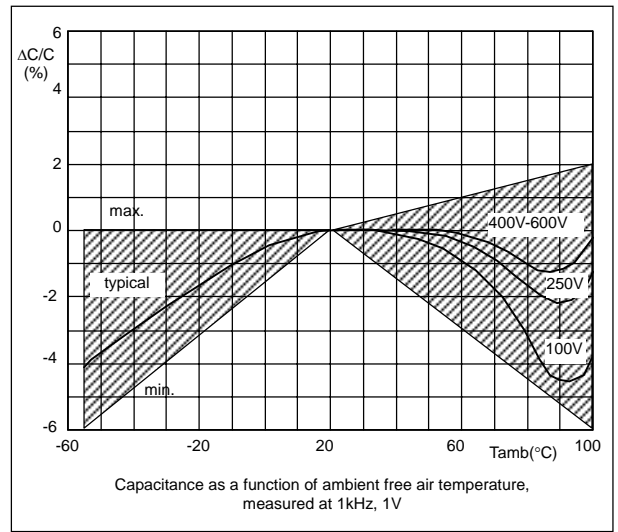
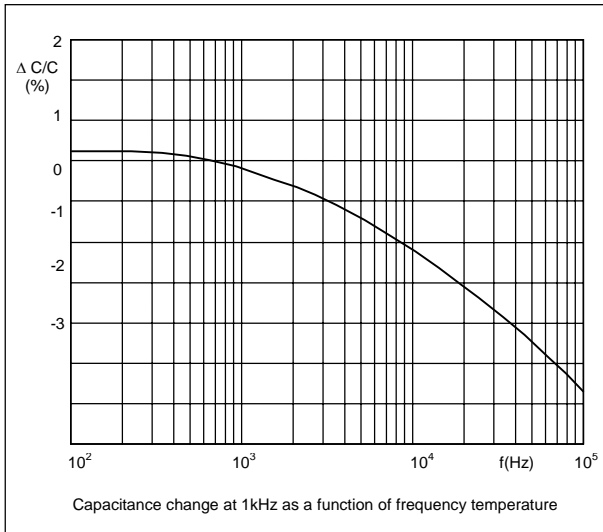
| Rated voltage      | Capacitance            | R between leads (M $\Omega$ ) | RC between leads (sec) |
|--------------------|------------------------|-------------------------------|------------------------|
| 100 V              | C > 0.33 $\mu\text{F}$ | -                             | > 5 000 s              |
| 250V / 400V / 630V | C 0.33 $\mu\text{F}$   | > 30 000                      | -                      |
|                    | C > 0.33 $\mu\text{F}$ | -                             | > 10 000 s             |

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

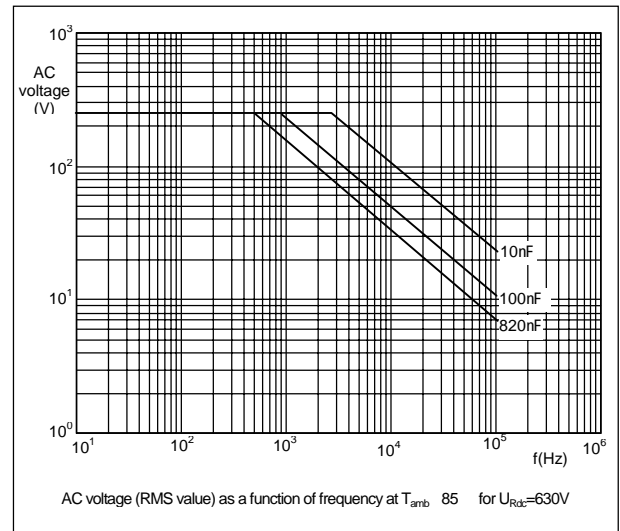
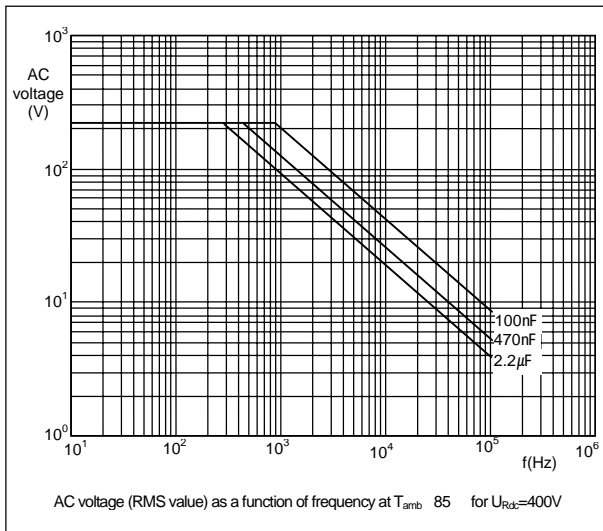
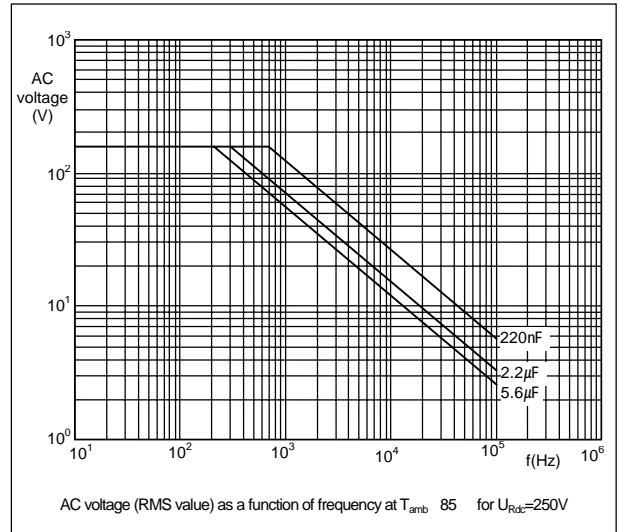
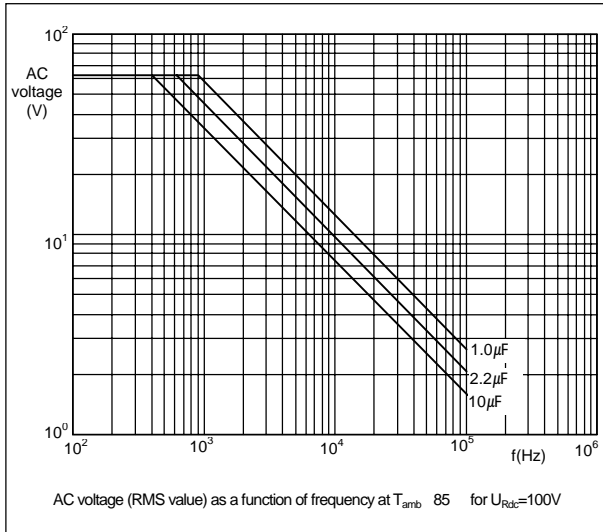
For values see specific reference data. If the pulse voltage is lower than the rated voltage, the values of the specific reference data must be multiplied by  $V_{Rdc}$  and divided by the applied voltage.

| Rated voltage | Rated pulse load(V/ $\mu\text{s}$ ) as a function of $I_{max}$ |                           |                           |                           |
|---------------|--|---------------------------|---------------------------|---------------------------|
|               | $I_{max} = 12.5\text{mm}$                                      | $I_{max} = 18.0\text{mm}$ | $I_{max} = 26.0\text{mm}$ | $I_{max} = 31.0\text{mm}$ |
| 100V          | 30   | 20                        | 20                        | -                         |
| 250V          | 120  | 45                        | 20                        | 15                        |
| 400V          | 170  | 65                        | 30                        | 25                        |
| 630V          | 120  | 90                        | 35                        | 30                        |

**THE GRAPHS OF CHARACTERISTICS**



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



## 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 ionization 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 :

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

T is the pulse duration.

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

Voltage conditions for above.

| ALLOWED VOLTAGES                             | $T_{\text{amb}} \leq 85$ | $85 < T_{\text{amb}} \leq 105$ |
|--|--------------------------|--------------------------------|
| Maximum continuous RMS voltage               | $V_{Rac}$                | $0.7 \times V_{Rac}$           |
| Maximum temporary RMS over voltage (<24 hrs) | $1.25 \times V_{Rac}$    | $0.875 \times V_{Rac}$         |

## PRODUCT MARKING

The capacitors are marked on the top and side or on the top with the following information ;

- . Rated capacitance in code according to IEC 60062
- . Tolerance on rated capacitance : J =  $\pm 5\%$  , K =  $\pm 10\%$
- . Rated DC voltage : (e.g. 400V)
- . Manufacturer's type designation : (468)
- . Code for dielectric material : (MKT(ME))

### Example of marking

pitch = 10mm

|                                       |
|---------------------------------------|
| 100n J 630V<br>468 MKT ....<br>PILKOR |
|---------------------------------------|

Marking on the side

pitch = 15mm

|                            |
|----------------------------|
| 100n J 630V<br>468 MKT(ME) |
|----------------------------|

Marking on the top

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

Marking on the side

pitch = 22.5mm / 27.5mm

|  |
|--|
| 470n J 400V PILKOR<br>468 MKT(ME) WK.... |
|--|

Marking on the top

|                            |
|----------------------------|
| 470n J 400V<br>468 MKT(ME) |
|----------------------------|

Marking on the top

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

Marking on the side