

# PME261

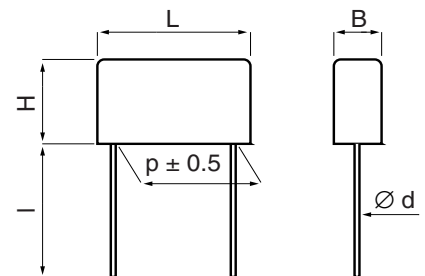
- General purpose AC/DC
- Metallized paper

- IEC Publ. 166 Type 1
- High dU/dt capability.
- Excellent self-healing properties. Ensures long life even when subjected to frequent overvoltages.
- Good resistance to ionisation due to impregnated dielectric.
- Approved according to SE-MIL-QPL.
- The capacitors meet the most stringent IEC humidity class, 56 days.
- The impregnated paper ensures excellent stability giving outstanding reliability properties, especially in applications having continuous operation.

| TYPICAL APPLICATIONS  | CONSTRUCTION  |
|---|---|
| For general use in DC and low frequency pulse applications. | Multi-layer metallized paper. Encapsulated and impregnated in self-extinguishing material meeting the requirements of UL 94V-0. |

## TECHNICAL DATA

|   | PME261 K   | PME261 E                          | PME261 J                          |
|---|--|-----------------------------------|-----------------------------------|
| <b>Rated voltage <math>U_R</math>, VAC</b>  | 220  | 300                               | 500                               |
| <b>Rated voltage <math>U_R</math>, VDC</b>  | 400  | 630                               | 1000                              |
| <b>Capacitance range, <math>\mu</math>F</b> | 0.0082 - 1.0   | 0.001 - 0.15                      | 0.001 - 0.1                       |
| <b>Capacitance tolerance</b>                | —<br>± 10% code K<br>± 5% code J   | ± 20% code M<br>± 10% code K<br>— | ± 20% code M<br>± 10% code K<br>— |
| <b>Temperature range</b>                    | AC application -40 to +70°C<br>DC application -40 to +100°C  |                                   |                                   |
| <b>Climatic category</b>                    | IEC 40/070/56  |                                   |                                   |
| <b>Dissipation factor</b>                   | ≤ 1.3 % at 1 kHz   |                                   |                                   |
| <b>Insulation resistance</b>                | C ≤ 0.33 $\mu$ F      12000 M $\Omega$<br>C > 0.33 $\mu$ F      4000 s<br>PME261 K measured at 100 VDC after 60 s, +23°C<br>PME261 E and J measured at 500 VDC after 60 s, +23°C |                                   |                                   |



d = 0.6 for p = 10.2  
0.8 for p = 15.2 and 20.3  
1.0 for p = 25.4

l = standard: 30 +5/-0 mm  
option: short leads, tolerance +0/-1 mm  
(standard 6 mm, code R06)  
Other lead lengths on request.

## ENVIRONMENTAL TEST DATA

|                             |   |   |
|-----------------------------|---|---|
| <b>Vibration</b>            | IEC 60068-2-6 3 directions at 2 hour each<br>Test Fc 10 – 500 Hz at 0.75 mm or<br>98 m/s <sup>2</sup> | No visible damage<br>No open or short circuit                                       |
| <b>Bump</b>                 | IEC 60068-2-29<br>Test Eb   | 4000 bumps at 390 m/s <sup>2</sup><br>No visible damage<br>No open or short circuit |
| <b>Solderability</b>        | IEC 60068-2-20<br>Test Ta   | Solder globule method<br>Wetting time<br>for d ≤ 0.8 < 1 s<br>for d > 0.8 < 1.5 s   |
| <b>Passive flammability</b> | IEC 60695-2-2   |   |
| <b>Humidity</b>             | IEC 60068-2-3 +40°C and 90 – 95% R.H.<br>Test Ca  | 56 days   |

## ARTICLE TABLE

| Capacitance<br>$\mu\text{F}$      | Max dimensions in mm |      |      |      | Quantity per package |            |                      | Weight<br>g | Max<br>dU/dt<br>V/ $\mu\text{s}$ | Article code     |
|-----------------------------------|----------------------|------|------|------|----------------------|------------|----------------------|-------------|----------------------------------|------------------|
|                                   | B                    | H    | L    | p    | R30<br>pcs           | R06<br>pcs | reel<br>taped<br>pcs |             |                                  |                  |
| <b>220 VAC / 400 VDC PME261 K</b> |                      |      |      |      |                      |            |                      |             |                                  |                  |
| <b>LEAD SPACING 10.2 MM</b>       |                      |      |      |      |                      |            |                      |             |                                  |                  |
| 0.0082                            | 3.9                  | 7.5  | 13.5 | 10.2 | 1000                 | 2000       | 700                  | 0.7         | 2000                             | PME261KA4820KR30 |
| 0.010                             | 3.9                  | 7.5  | 13.5 | 10.2 | 1000                 | 2000       | 700                  | 0.7         | 2000                             | PME261KA5100KR30 |
| 0.015                             | 5.1                  | 10.5 | 13.5 | 10.2 | 800                  | 1600       | 600                  | 1.2         | 2000                             | PME261KA5150KR30 |
| 0.022                             | 5.1                  | 10.5 | 13.5 | 10.2 | 800                  | 1600       | 600                  | 1.2         | 2000                             | PME261KA5220KR30 |
| <b>LEAD SPACING 15.2 MM</b>       |                      |      |      |      |                      |            |                      |             |                                  |                  |
| 0.033                             | 5.2                  | 10.5 | 18.5 | 15.2 | 500                  | 1000       | 600                  | 1.7         | 1600                             | PME261KB5330KR30 |
| 0.047                             | 5.2                  | 10.5 | 18.5 | 15.2 | 500                  | 1000       | 600                  | 1.7         | 1300                             | PME261KB5470KR30 |
| 0.068                             | 7.3                  | 13.0 | 19.0 | 15.2 | 400                  | 800        | 400                  | 3.0         | 1100                             | PME261KB5680KR30 |
| 0.10                              | 7.3                  | 13.0 | 19.0 | 15.2 | 400                  | 800        | 400                  | 3.0         | 850                              | PME261KB6100KR30 |
| <b>LEAD SPACING 20.3 MM</b>       |                      |      |      |      |                      |            |                      |             |                                  |                  |
| 0.15                              | 7.6                  | 14.0 | 24.0 | 20.3 | 250                  | 1500       | 250                  | 4.0         | 700                              | PME261KC6150KR30 |
| 0.22                              | 8.4                  | 14.0 | 24.0 | 20.3 | 200                  | 1500       | 250                  | 4.5         | 560                              | PME261KC6220KR30 |
| 0.33                              | 11.3                 | 16.5 | 24.0 | 20.3 | 150                  | 1000       | 180                  | 7.0         | 430                              | PME261KC6330KR30 |
| <b>LEAD SPACING 25.4 MM</b>       |                      |      |      |      |                      |            |                      |             |                                  |                  |
| 0.47                              | 10.6                 | 17.3 | 30.5 | 25.4 | 150                  | 1000       |                      | 8.0         | 370                              | PME261KE6470KR30 |
| 0.68                              | 15.3                 | 22.0 | 30.5 | 25.4 | 75                   | 600        |                      | 15.0        | 300                              | PME261KE6680KR30 |
| 1.0                               | 15.3                 | 22.0 | 30.5 | 25.4 | 75                   | 600        |                      | 15.0        | 220                              | PME261KE7100KR30 |
| <b>300 VAC / 630 VDC PME261 E</b> |                      |      |      |      |                      |            |                      |             |                                  |                  |
| <b>LEAD SPACING 10.2 MM</b>       |                      |      |      |      |                      |            |                      |             |                                  |                  |
| 0.0010                            | 3.9                  | 7.5  | 13.5 | 10.2 | 1000                 | 2000       | 700                  | 0.7         | 2000                             | PME261EA4100MR30 |
| 0.0015                            | 3.9                  | 7.5  | 13.5 | 10.2 | 1000                 | 2000       | 700                  | 0.7         | 2000                             | PME261EA4150MR30 |
| 0.0022                            | 3.9                  | 7.5  | 13.5 | 10.2 | 1000                 | 2000       | 700                  | 0.7         | 2000                             | PME261EA4220MR30 |
| 0.0033                            | 3.9                  | 7.5  | 13.5 | 10.2 | 1000                 | 2000       | 700                  | 0.7         | 2000                             | PME261EA4330MR30 |
| 0.0047                            | 3.9                  | 7.5  | 13.5 | 10.2 | 1000                 | 2000       | 700                  | 0.7         | 2000                             | PME261EA4470MR30 |
| 0.0068                            | 3.9                  | 7.5  | 13.5 | 10.2 | 1000                 | 2000       | 700                  | 0.7         | 2000                             | PME261EA4680MR30 |
| 0.010                             | 5.1                  | 10.5 | 13.5 | 10.2 | 800                  | 1600       | 600                  | 1.2         | 2000                             | PME261EA5100KR30 |
| 0.015                             | 5.1                  | 10.5 | 13.5 | 10.2 | 800                  | 1600       | 600                  | 1.2         | 2000                             | PME261EA5150KR30 |
| <b>LEAD SPACING 15.2 MM</b>       |                      |      |      |      |                      |            |                      |             |                                  |                  |
| 0.022                             | 5.2                  | 10.5 | 18.5 | 15.2 | 500                  | 1000       | 600                  | 1.7         | 2000                             | PME261EB5220KR30 |
| 0.033                             | 5.2                  | 10.5 | 18.5 | 15.2 | 500                  | 1000       | 600                  | 1.7         | 2000                             | PME261EB5330KR30 |
| 0.047                             | 7.3                  | 13.0 | 19.0 | 15.2 | 400                  | 800        | 400                  | 3.0         | 1600                             | PME261EB5470KR30 |
| 0.068                             | 7.3                  | 13.0 | 19.0 | 15.2 | 400                  | 800        | 400                  | 3.0         | 1200                             | PME261EB5680KR30 |
| <b>LEAD SPACING 20.3 MM</b>       |                      |      |      |      |                      |            |                      |             |                                  |                  |
| 0.10                              | 7.6                  | 14.0 | 24.0 | 20.3 | 250                  | 1500       | 250                  | 4.0         | 900                              | PME261EC6100KR30 |
| 0.15                              | 9.0                  | 15.0 | 24.0 | 20.3 | 200                  | 1200       | 250                  | 5.0         | 650                              | PME261EC6150KR30 |

## ARTICLE TABLE

| Capacitance<br>$\mu\text{F}$      | Max dimensions in mm |      |      |      | Quantity per package |            |                      | Weight<br>g | Max<br>dU/dt<br>V/ $\mu\text{s}$ | Article code     |
|-----------------------------------|----------------------|------|------|------|----------------------|------------|----------------------|-------------|----------------------------------|------------------|
|                                   | B                    | H    | L    | p    | R30<br>pcs           | R06<br>pcs | reel<br>taped<br>pcs |             |                                  |                  |
| <b>500 VAC/ 1000 VDC PME261 J</b> |                      |      |      |      |                      |            |                      |             |                                  |                  |
| <b>LEAD SPACING 10.2 MM</b>       |                      |      |      |      |                      |            |                      |             |                                  |                  |
| 0.0010                            | 3.9                  | 7.5  | 13.5 | 10.2 | 1000                 | 2000       | 700                  | 0.7         | 2000                             | PME261JA4100MR30 |
| 0.0015                            | 3.9                  | 7.5  | 13.5 | 10.2 | 1000                 | 2000       | 700                  | 0.7         | 2000                             | PME261JA4150MR30 |
| 0.0022                            | 3.9                  | 7.5  | 13.5 | 10.2 | 1000                 | 2000       | 700                  | 0.7         | 2000                             | PME261JA4220MR30 |
| 0.0033                            | 3.9                  | 7.5  | 13.5 | 10.2 | 1000                 | 2000       | 700                  | 0.7         | 2000                             | PME261JA4330MR30 |
| 0.0047                            | 5.1                  | 10.5 | 13.5 | 10.2 | 800                  | 1600       | 600                  | 1.2         | 2000                             | PME261JA4470MR30 |
| 0.0068                            | 5.1                  | 10.5 | 13.5 | 10.2 | 800                  | 1600       | 600                  | 1.2         | 2000                             | PME261JA4680MR30 |
| <b>LEAD SPACING 15.2 MM</b>       |                      |      |      |      |                      |            |                      |             |                                  |                  |
| 0.010                             | 5.2                  | 10.5 | 18.5 | 15.2 | 500                  | 1000       | 600                  | 1.7         | 2000                             | PME261JB5100KR30 |
| 0.015                             | 5.2                  | 10.5 | 18.5 | 15.2 | 500                  | 1000       | 600                  | 1.7         | 2000                             | PME261JB5150KR30 |
| 0.022                             | 7.3                  | 13.0 | 19.0 | 15.2 | 400                  | 800        | 400                  | 3.0         | 2000                             | PME261JB5220KR30 |
| 0.033                             | 7.8                  | 13.5 | 18.5 | 15.2 | 400                  | 800        | 400                  | 3.3         | 2000                             | PME261JB5330KR30 |
| <b>LEAD SPACING 20.3 MM</b>       |                      |      |      |      |                      |            |                      |             |                                  |                  |
| 0.047                             | 7.6                  | 14.0 | 24.0 | 20.3 | 250                  | 1500       | 250                  | 4.0         | 2000                             | PME261JC5470KR30 |
| 0.068                             | 9.0                  | 15.0 | 24.0 | 20.3 | 200                  | 1200       | 250                  | 5.0         | 1400                             | PME261JC5680KR30 |
| 0.10                              | 11.3                 | 16.5 | 24.0 | 20.3 | 150                  | 1000       | 180                  | 7.0         | 950                              | PME261JC6100KR30 |

## ORDERING INFORMATION

The article code for the standard part is given in the article table.  
For other options, see page 21.

## MARKING

- RIFA
- RIFA article code
- Rated capacitance
- Rated voltage AC/DC
- MP, for metallized paper
- Climatic category according to IEC 60068-, appendix A
- Manufacturing code (year, month)

## PACKING

Capacitors in standard design (lead length 30 mm) and with  $L < 24$  mm and lead length 5 or 6 mm are packed bulk in a box with dimensions 245 x 145 x 80 mm.  
Quantity/package as per article table.

Capacitors with  $L \geq 24$  mm and lead length 5 or 6 mm are packed on trays piled in a box with dimension 300 x 260 x 195 mm.  
Quantity/package as per article table.

Reels with taped capacitors are packed 10 in a box with dimension 370 x 370 x 560 mm.  
The standard quantity/reel is for 360 mm reel. If 500 mm reel is required, it must be specified when ordering and the quantity is 2 x the given quantity.