

# 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

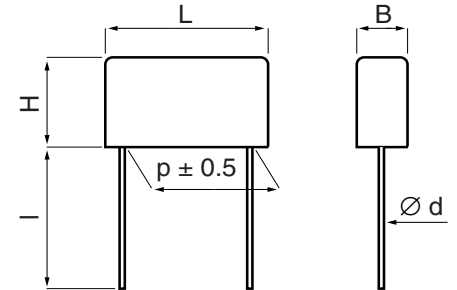
For general use in DC and low frequency pulse applications.

## CONSTRUCTION

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 F</math></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

| Capaci-<br>tance           | Max dimensions in mm |      |      |      | Quantity per package |      |               | Weight | Max<br>dU/dt | Article code     |
|----------------------------|----------------------|------|------|------|----------------------|------|---------------|--------|--------------|------------------|
|                            |                      |      |      |      | R30                  | R06  | reel<br>taped |        |              |                  |
| μF                         | B                    | H    | L    | p    | pcs                  | pcs  | pcs           | g      | V/μs         |                  |
| 220 VAC / 400 VDC PME261 K |                      |      |      |      |                      |      |               |        |              |                  |
| LEAD SPACING 10.2 MM       |                      |      |      |      |                      |      |               |        |              |                  |
| 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 |
| LEAD SPACING 15.2 MM       |                      |      |      |      |                      |      |               |        |              |                  |
| 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 |
| LEAD SPACING 20.3 MM       |                      |      |      |      |                      |      |               |        |              |                  |
| 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 |
| LEAD SPACING 25.4 MM       |                      |      |      |      |                      |      |               |        |              |                  |
| 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 |
| 300 VAC / 630 VDC PME261 E |                      |      |      |      |                      |      |               |        |              |                  |
| LEAD SPACING 10.2 MM       |                      |      |      |      |                      |      |               |        |              |                  |
| 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 |
| LEAD SPACING 15.2 MM       |                      |      |      |      |                      |      |               |        |              |                  |
| 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 |
| LEAD SPACING 20.3 MM       |                      |      |      |      |                      |      |               |        |              |                  |
| 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

| Capaci-<br>tance            | Max dimensions in mm |      |      |      | Quantity per package |      |               | Weight | Max<br>dU/dt | Article code     |
|-----------------------------|----------------------|------|------|------|----------------------|------|---------------|--------|--------------|------------------|
|                             | B                    | H    | L    | p    | R30                  | R06  | reel<br>taped |        |              |                  |
| μF                          | B                    | H    | L    | p    | pcs                  | pcs  | pcs           | g      | V/μs         |                  |
| 500 VAC/ 1000 VDC  PME261 J |                      |      |      |      |                      |      |               |        |              |                  |
| LEAD SPACING 10.2 MM        |                      |      |      |      |                      |      |               |        |              |                  |
| 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 |
| LEAD SPACING 15.2 MM        |                      |      |      |      |                      |      |               |        |              |                  |
| 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 |
| LEAD SPACING 20.3 MM        |                      |      |      |      |                      |      |               |        |              |                  |
| 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 ≥ 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.