

# PME264

- EMI suppressor, class X2, metallized paper
- 0.001 – 0.1  $\mu$ F, 660 VAC, +85 °C

- Self-extinguishing encapsulation.
- 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.
- 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

High AC and DC voltage applications, such as

- commutator capacitor in converters
- high voltage DC-capacitor in TV sets
- ignition circuits.

## CONSTRUCTION

Multi-layer metallized paper. Encapsulated and impregnated in self-extinguishing material meeting the requirements of UL 94V-0.

## TECHNICAL DATA

### Rated voltage

660 VAC 50/60 Hz  
1500 VDC  
(1600 VDC, + 50°C)

### Capacitance range

0.001 – 0.1  $\mu$ F

### Capacitance tolerance

± 20%

### Temperature range

–40 to +85°C

### Climatic category IEC

40/085/56/B

### Approvals

S, UL

### Dissipation factor $\tan\delta$

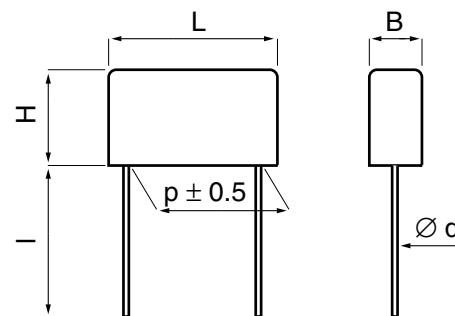
≤ 1.3 % at 1 kHz

### Insulation resistance

≥ 12000 M $\Omega$   
Measured at 500 VDC after 60 s, +23°C

### Test voltage between terminals

The 100% screening factory test is carried out at 3000 VDC. The voltage level is selected to meet the requirements in applicable equipment standards.



d = 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<br>Test Fc         | 3 directions at 2 hour each,<br>10 – 500 Hz at 0.75 mm or 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>                                            | No visible damage<br>No open or short circuit            |
| <b>Solderability</b>        | IEC 60068-2-20<br>Test Ta        | Solder globule method                                                         | Wetting time<br>for d ≤ 0.8 < 1 s<br>for d > 0.8 < 1.5 s |
| <b>Active flammability</b>  | EN 132400                        |                                                                               |                                                          |
| <b>Passive flammability</b> | IEC 60384-14 (1993)<br>EN 132400 |                                                                               |                                                          |
| <b>Humidity</b>             | IEC 60068-2-3<br>Test Ca         | +40°C and 90 – 95% R.H.                                                       | 56 days                                                  |

## ARTICLE TABLE

| Capacitance<br>$\mu\text{F}$ | Max dimensions<br>in mm |      |      |      | Quantity per package |            |                      | Weight<br>g | Max<br>dU/dt<br>V/ $\mu\text{s}$ | Approvals<br>  | Article code     |
|------------------------------|-------------------------|------|------|------|----------------------|------------|----------------------|-------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
|                              | B                       | H    | L    | p    | R30<br>pcs           | R06<br>pcs | reel<br>taped<br>pcs |             |                                  |                                                                                                                                                                                      |                  |
| 0.0010                       | 5.2                     | 10.5 | 18.5 | 15.2 | 500                  | 1000       | 600                  | 1.7         | 2000                             | ✓ ✓                                                                                                                                                                                  | PME264NB4100MR30 |
| 0.0015                       | 5.2                     | 10.5 | 18.5 | 15.2 | 500                  | 1000       | 600                  | 1.7         | 2000                             | ✓ ✓                                                                                                                                                                                  | PME264NB4150MR30 |
| 0.0022                       | 5.2                     | 10.5 | 18.5 | 15.2 | 500                  | 1000       | 600                  | 1.7         | 2000                             | ✓ ✓                                                                                                                                                                                  | PME264NB4220MR30 |
| 0.0033                       | 5.2                     | 10.5 | 18.5 | 15.2 | 500                  | 1000       | 600                  | 1.7         | 2000                             | ✓ ✓                                                                                                                                                                                  | PME264NB4330MR30 |
| 0.0047                       | 5.2                     | 10.5 | 18.5 | 15.2 | 500                  | 1000       | 600                  | 1.7         | 2000                             | ✓ ✓                                                                                                                                                                                  | PME264NB4470MR30 |
| 0.0068                       | 7.3                     | 13.0 | 19.0 | 15.2 | 400                  | 800        | 400                  | 3.0         | 1400                             | ✓ ✓                                                                                                                                                                                  | PME264NB4680MR30 |
| 0.010                        | 7.3                     | 13.0 | 19.0 | 15.2 | 400                  | 800        | 400                  | 3.0         | 1400                             | ✓ ✓                                                                                                                                                                                  | PME264NB5100MR30 |
| 0.015                        | 7.6                     | 14.0 | 24.0 | 20.3 | 250                  | 1500       | 250                  | 4.0         | 1400                             | ✓ ✓                                                                                                                                                                                  | PME264NC5150MR30 |
| 0.022                        | 9.0                     | 15.0 | 24.0 | 20.3 | 200                  | 1200       | 250                  | 5.0         | 1400                             | ✓ ✓                                                                                                                                                                                  | PME264NC5220MR30 |
| 0.033                        | 11.3                    | 16.5 | 24.0 | 20.3 | 150                  | 1000       | 180                  | 7.0         | 1000                             | ✓ ✓                                                                                                                                                                                  | PME264NC5330MR30 |
| 0.047                        | 10.5                    | 17.0 | 30.5 | 25.4 | 100                  | 1000       |                      | 8.5         | 1000                             | ✓ ✓                                                                                                                                                                                  | PME264NE5470MR30 |
| 0.068                        | 12.1                    | 19.0 | 30.5 | 25.4 | 100                  | 800        |                      | 10.0        | 1000                             | ✓ ✓                                                                                                                                                                                  | PME264NE5680MR30 |
| 0.10                         | 15.3                    | 22.0 | 30.5 | 25.4 | 75                   | 600        |                      | 15.0        | 600                              | ✓ ✓                                                                                                                                                                                  | PME264NE6100MR30 |

## APPROVALS/REFERENCE DOCUMENTS

| Certification Body | Specification                       | Approval reference |
|--------------------|-------------------------------------|--------------------|
| S                  | EN 132400                           | 9649199/01         |
| UL                 | UL 1283 ( $U_R = 600 \text{ VAC}$ ) | E100117            |

## MARKING

- RIFA
- RIFA article code
- Rated capacitance
- Rated voltage
- X2
- SH, for self healing
- Climatic category according to IEC 60068-1, appendix A
- Passive flammability class
- Approval marks
- Manufacturing code (year, month)

## ORDERING INFORMATION

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

## PACKING

Capacitors in standard design (lead length 30 mm) and with  $L < 24 \text{ mm}$  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  $L \geq 24 \text{ mm}$  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.