

# PMZ2074

**RoHS**  
Compliant

- Double capacitor; two capacitors in series
- EMI suppressor, class X2, metallized paper
- 275 VAC, +110 °C

- The highest possible safety regarding active and passive flammability.
- Self-extinguishing UL 94V-0 encapsulation material.
- Excellent self-healing properties. Ensures long life even when subjected to frequent overvoltages.
- Good resistance to ionisation due to impregnated dielectric.
- High dU/dt capability.
- Small dimensions.
- Safety approvals for worldwide use.
- 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

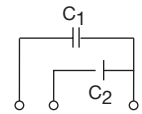
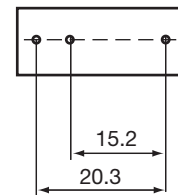
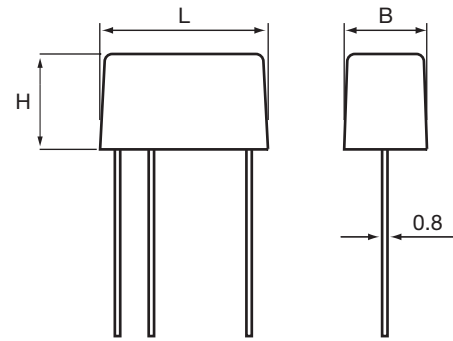
The capacitors are intended for use as interference suppressors in X2 (across-the-line) applications or in other demanding applications where two capacitors are utilized in series.

## CONSTRUCTION

Multilayer metallized paper, encapsulated and impregnated in self-extinguishing material meeting the requirements of UL 94V-0.

## TECHNICAL DATA

|                                       |  |
|---------------------------------------|--|
| <b>Rated voltage</b>                  | 275 VAC, 50/60 Hz  |
| <b>Capacitance range</b>              | 150 + 33, 150 + 47, 150 + 68, 220 + 82, 220 + 100 nF   |
| <b>Capacitance tolerance</b>          | ± 20%, ± 10%, -5/+15%  |
| <b>Temperature range</b>              | -40 to +110°C  |
| <b>Climatic category</b>              | 40/110/56/B  |
| <b>Approvals</b>                      | ENEC   |
| <b>Dissipation factor tan δ</b>       | < 1.3 % at 1 kHz   |
| <b>Insulation resistance</b>          | ≥ 12000 MΩ<br>Measured at 500 VDC after 60 s, +23°C  |
| <b>Test voltage between terminals</b> | The 100% screening factory test is carried out at 2150 VDC. The voltage level is selected to meet the requirements in applicable equipment standards. All electrical characteristics are checked after the test. |
| <b>In DC applications</b>             | Recommended voltage ≤ 630 VDC.   |



**ARTICLE TABLE**

| Capacitance          |                      | Max dimensions in mm |      |      |      | Quantity per package |            |                      | Weight<br>g | Max dU/dt<br>V/μs |                | Article code         |
|----------------------|----------------------|----------------------|------|------|------|----------------------|------------|----------------------|-------------|-------------------|----------------|----------------------|
| C <sub>1</sub><br>μF | C <sub>2</sub><br>μF | B                    | H    | L    | p    | R30<br>pcs           | R06<br>pcs | reel<br>taped<br>pcs |             | C <sub>1</sub>    | C <sub>2</sub> |                      |
| 0.15                 | 0.033                | 12.5                 | 16.0 | 24.0 | 20.3 | 150                  | 900        |                      | 7.0         | 600               | 1200           | PMZ2074MC615K533MR30 |
| 0.15                 | 0.047                | 12.5                 | 16.0 | 24.0 | 20.3 | 150                  | 900        |                      | 7.0         | 600               | 1200           | PMZ2074MC615K547MR30 |
| 0.15                 | 0.068                | 12.5                 | 16.0 | 24.0 | 20.3 | 150                  | 900        |                      | 7.0         | 600               | 1200           | PMZ2074MC615K568MR30 |
| 0.22                 | 0.082                | 14.0                 | 18.0 | 24.0 | 20.3 | 100                  | 900        |                      | 8.4         | 600               | 1200           | PMZ2074MC622K582MR30 |
| 0.22                 | 0.10                 | 14.0                 | 18.0 | 24.0 | 20.3 | 100                  | 900        |                      | 8.4         | 600               | 1200           | PMZ2074MC622K610MR30 |

**APPROVALS**

| Certification Body | Specification        |
|--------------------|----------------------|
| ENEC               | EN/IEC 60384-14:2005 |

**MARKING**

- RIFA
- RIFA article code
- Rated capacitance
- Rated voltage
- Capacitor class and sub-class
- Climatic category according to IEC 60068-1, appendix A
- Passive flammability class
- Approval marks
- Manufacturing code (year, month)

**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<br>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 < 1.5 s           |
| <b>Active flammability</b>  | EN/IEC 60384-14:2005      |   |   |
| <b>Passive flammability</b> | UL 1414                   | Enclosure material of UL 94V-0 flammability class                               |   |
| <b>Humidity</b>             | IEC 60068-2-3<br>Test Ca  | +40°C and 90 – 95% R.H.   | 56 days                                       |

**ORDERING INFORMATION**

The article code for the standard part is given in the article table.  
For other options, see page 11.