

# PMZ2035

- RC unit, class X1, metallized paper with integrated resistor
- 0.1  $\mu\text{F}$  150  $\Omega$ , 440 VAC, +85 °C

- RC unit for safety applications.
- Small dimensions
- High dU/dt capability.
- Self-extinguishing encapsulation. The material is recognized acc. to UL 94 V-0
- Good resistance to ionisation due to impregnated dielectric.

- Excellent self-healing properties. Ensures long life even when subjected to frequent overvoltages.
- The impregnated paper ensures excellent stability giving outstanding reliability properties, especially in applications having continuous operation.

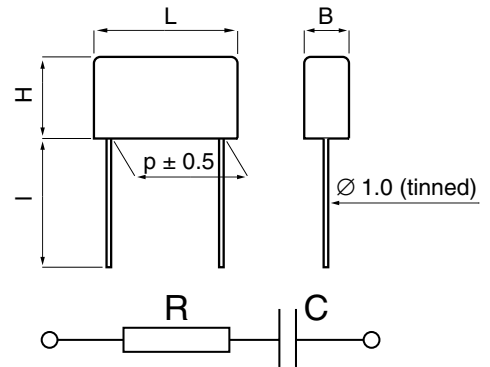
## TYPICAL APPLICATIONS

RC unit for use in DC and AC applications for:

- contact protection
- interference suppression of contacts
- transient suppression

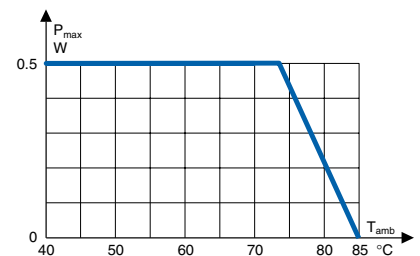
## CONSTRUCTION

Multilayer metallized paper, encapsulated and impregnated in self-extinguishing material meeting the requirements of UL 94V-0. The resistance in the metal layer is utilized as series resistance, integrated resistor.



## TECHNICAL DATA

<b>Rated voltage</b>	440 VAC, 50/60 Hz
<b>Capacitance range</b>	0.1 $\mu\text{F}$
<b>Capacitance tolerance</b>	$\pm 20\%$
<b>Resistance range</b>	150 $\Omega$
<b>Resistance tolerance</b>	$\pm 30\%$
<b>Peak pulse voltage</b>	1000 V
<b>Temperature range</b>	-40 to +85°C
<b>Climatic category</b>	40/085/56/B
<b>Approvals</b>	ENEC
<b>Series resistance</b>	The series resistance is defined at 100 kHz
<b>Insulation resistance</b>	$\geq 6000 \text{ M}\Omega$ Measured at 500 VDC after 2 min, +23°C
<b>Pulse current</b>	Max 12 A repetitive. Max 20 A peak for occasional transients.
<b>Test voltage between terminals</b>	The 100% screening factory test is carried out at 1800 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 $\leq 1000 \text{ VDC}$ .
<b>Power ratings</b>	The average losses may reach 0.5 W provided the surface temperature does not exceed +85°C. For maximum permitted power dissipation vs temperature, see derating curve.



Maximum allowable power dissipation vs ambient temperature

**ARTICLE TABLE**

Capacitance μF	Resistance Ω	Max dimensions in mm				Quantity per package			Weight g	Approvals ENEC	Article code
		B	H	L	p	R30 pcs	R06 pcs	reel taped pcs			
0.10	150	12.1	19.0	30.5	25.4	100	800	10	√	PMZ2035RE6100K150R30	

**APPROVALS/REFERENCE DOCUMENTS**

Certification Body	Specification	Approval reference
ENEC	EN 132400	SE/0140-3

**MARKING**

- RIFA
- RIFA article code
- RC unit
- Rated capacitance and resistance
- Rated voltage
- Capacitor class and sub-class
- SH, for self-healing
- 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 Test Fc	3 directions at 2 hour each 10 – 500 Hz at 0.75 mm or 98 m/s <sup>2</sup>	No visible damage No open or short circuit
<b>Bump</b>	IEC 60068-2-29 Test Eb	4000 bumps at 390 m/s <sup>2</sup>	No visible damage No open or short circuit
<b>Solderability</b>	IEC 60068-2-20 Test Ta	Solder globule method	Wetting time for d > 0.8 < 1.5 s
<b>Active flammability</b>	EN 132400		
<b>Passive flammability</b>	IEC 60384-14 (1993) EN 132400 UL 1414	Enclosure material of UL 94V-0 flammability class	
<b>Humidity</b>	IEC 60068-2-3 Test Ca	+40°C and 90 – 95% R.H.	56 days

**PACKING**

RC units 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.

RC units with L ≥ 24 mm and lead length 5 or 6 mm are packed on trays piled in a box with dimensions 300 x 260 x 195 mm. Quantity/package as per article table.

**ORDERING INFORMATION**

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