

PMZ2035

RoHS
Compliant

- RC unit, class X1, metallized paper with integrated resistor
- 0.1 μF 150 Ω , 440 VAC, +85 $^{\circ}\text{C}$

- 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:

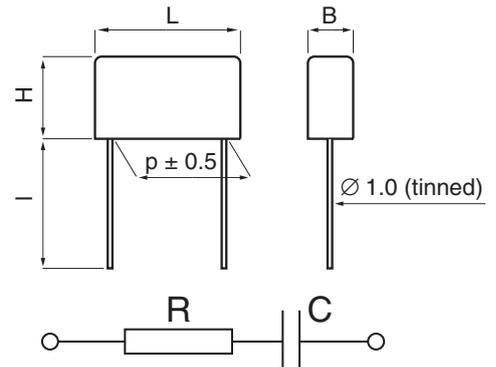
- contact protection
- interference suppression of contacts
- transient suppression

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

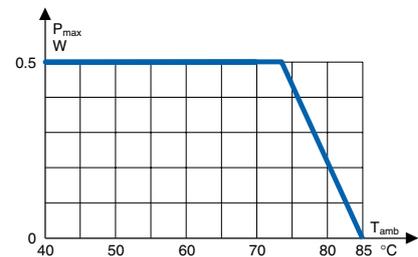
Rated voltage	440 VAC, 50/60 Hz
Capacitance range	0.1 μF
Capacitance tolerance	$\pm 20\%$
Resistance range	150 Ω
Resistance tolerance	$\pm 30\%$
Peak pulse voltage	1000 V
Temperature range	-40 to +85 $^{\circ}\text{C}$
Climatic category	40/085/56/B
Approvals	ENEC
Series resistance	The series resistance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



I: standard: 30 +5/-0 mm

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

option 2: 30 mm insulated solid leads,
ordering code: replace R30
with R300PS in std P/N



Maximum allowable power dissipation vs ambient temperature

ARTICLE TABLE

Capacitance μF	Resistance Ω	Max dimensions in mm				Quantity per package			Weight g	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

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

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

Vibration	IEC 60068-2-6 Test Fc	3 directions at 2 hour each 10 – 500 Hz at 0.75 mm or 98 m/s ²	No visible damage No open or short circuit
Bump	IEC 60068-2-29 Test Eb	4000 bumps at 390 m/s ²	No visible damage No open or short circuit
Solderability	IEC 60068-2-20 Test Ta	Solder globule method	Wetting time for d > 0.8 < 1.5 s
Active flammability	EN/IEC 60384-14:2005		
Passive flammability	UL 1414	Enclosure material of UL 94V-0 flammability class	
Humidity	IEC 60068-2-3 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.