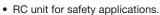
PMR210

- RC unit, class X1, metallized paper with integrated resistor
- 0.022 0.1 μ F, 100 Ω , 250 VAC, +85 °C



- 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.

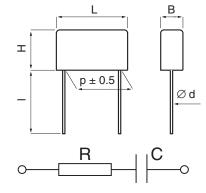
TYPICAL APPLICATIONS

RC unit for use in DC and AC applications for:

- contact protection
- interference suppression of contacts
- transient suppression

CONSTRUCTION

Single layer 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.



d = 0.8 for p = 15.2 and 20.3 1.0 for p = 25.4

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

TECHNICAL DATA

Rated voltage 250 VAC, 50/60 HzCapacitance range $0.022-0.1 \text{ }\mu\text{F}$ Capacitance tolerance $\pm 20\%$ Resistance range $100 \text{ }\Omega$ Resistance tolerance $\pm 30\%$

Peak pulse voltage 1000 V

Temperature range -40 to +85°C Climatic category 40/085/56/B

Approvals ENEC, UL

Series resistance The series resistance is defined at 100 kHz

Insulation resistance $\geq 1000 \text{ M}\Omega$

Measured at 500 VDC after 60 s, +23°C

Pulse current Max 12 A repetitive. Max 20 A peak for occasional

transients.

Test voltage between

terminals

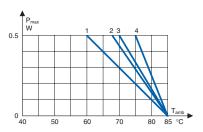
The 100% screening factory test is carried out at 3000 VDC. The voltage level is selected to meet the requirements in applicable equipment standards. All electrical characteristics are checked after the test.

In DC applications Recommended voltage ≤ 1000 VDC.

Power ratings

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 curves.

Curve	Dimensions				
1	B = 7.3				
1	B = 8.5				
2	B = 9.0				
3	B = 11.3				
4	B = 10.6				



Maximum allowable power dissipation vs ambient temperature and case sizes.

ARTICLE TABLE										
Capaci-	Resis		Max dimensions in mm				tity per p	reel	Weight	Article code
tance μF	tance Ω	В	н	L	р	R30 pcs	R06 pcs	taped pcs	g	
0.022	100	7.3	13.0	18.5	15.2	400	800	400	3.0	PMR210MB5220M100R30
0.033	100	8.5	14.3	18.5	15.2	300	500	350	3.8	PMR210MB5330M100R30
0.047	100	9.0	15.0	24.0	20.3	200	1200	250	5.0	PMR210MC5470M100R30
0.068	100	11.3	16.5	24.0	20.3	150	1000	180	7.0	PMR210MC5680M100R30
0.10	100	10.6	16.1	30.5	25.4	150	1000		8.0	PMR210ME6100M100R30

APPROVALS

Certification Body Specification

ENEC EN/IEC 60384-14:2005

UL UL 1414 $(U_R = 250 \text{ VAC})$

Across-the-line

ENVIRONMENTAL TEST DATA

Vibration IEC 60068-2-6 3 directions at 2 hour each No visible damage

> Test Fc 10 – 500 Hz at 0.75 mm No open or short circuit

or 98 m/s²

IEC 60068-2-294000 bumps at 390 m/s² **Bump** No visible damage

Solderability IEC 60068-2-20 Solder globule method

No open or short circuit

Wetting time

Test Ta for $d \le 0.8 < 1 \text{ s}$ for d > 0.8 < 1.5 s

EN/IEC 60384-14:2005 Active

flammability

Passive EN/IEC 60384-14:2005

flammability UL 1414 Enclosure material of UL 94V-0 flammability class

Humidity IEC 60068-2-3 +40°C and 90 - 95% R.H. 56 days

Test Ca

ORDERING INFORMATION

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

MARKING

- RIFA
- RIFA article code
- RC unit
- Rated capacitance and resistance
- Rated voltage • IEC 60065
- SH, for self-healing
- Climatic category according to IEC 60068-1, appendix A
- Passive flammability class
- Approval marks
- Manufacturing code (year, month)