PMR210

• RC unit, class X1, metallized paper with integrated resistor

• 0.022 – 0.1 μF, 100 Ω, 250 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.
 - TYPICAL APPLICATIONS

RC unit for use in DC and AC applications for:

- contact protection

- interference suppression of contacts
- transient suppression

• Excellent self-healing properties. Ensures long life even when subjected to frequent overvoltages.

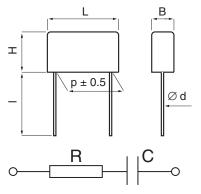
 The impregnated paper ensures excellent stability giving outstanding reliability properties, especially in applications having continuous operation.

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.

	TECHNICAL DATA					
Rated voltage	250 VAC, 50/60 Hz					
Capacitance range Capacitance tolerance	0.022–0.1 μF ± 20%					
Resistance range Resistance tolerance	100 Ω ± 30%					
Peak pulse voltage	1000 V					
Temperature range Climatic category	–40 to +85°C 40/085/56/B					
Approvals	ENEC, UL					
Series resistance	The series resistance is defined at 100 kHz					
Insulation resistance	\geq 1000 M Ω 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 \leq 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					

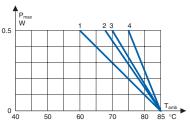
1	B = 7.3
1	B = 8.5
2	B = 9.0
3	B = 11.3
4	B = 10.6



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



Maximum allowable power dissipation vs ambient temperature and case sizes.





ARTICLE TABLE

							Quantity per package			
Capaci- Resis- tance tance	Max	Max dimensions in mm				R30 R06	reel taped	Weight	Article code	
μF	Ω	В	н	L	р	pcs	pcs	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

		MARKING				
Certification	Body	Specification		RIFA RIFA article code		
ENEC	I	EN/IEC 60384-14:2005		 RC unit Rated capacitance and resistance 		
UL		UL 1414 (L Across-the-line	J _R = 250 VAC)	 Rated voltage IEC 60065 SH, for self-healing Climatic category according to IEC 60068-1, appendix A Passive flammability class Approval marks 		
	E	Manufacturing code (year, month)				
Vibration	IEC 60068-2-6 Test Fc	3 directions at 2 hour e 10 – 500 Hz at 0.75 mm or 98 m/s²				
Bump	IEC 60068-2-2 Test Eb	94000 bumps at 390 m/	s ² No visible damage No open or short circuit			
Solderability	IEC 60068-2-2 Test Ta	0Solder globule method	Wetting time for d \leq 0.8 $<$ 1 s for d $>$ 0.8 $<$ 1.5 s			
Active flammability	EN/IEC 60384- ⁻	14:2005				
Passive flammability	EN/IEC 60384-14:2005 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.