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.
- · 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.

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-54151736 胜特力电子(深圳) 86-755-83298787 Http://www. 100y. com. tw

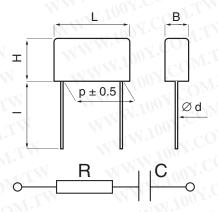
TYPICAL APPLICATIONS

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

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

TECHNICAL DATA

Rated voltage 250 VAC, 50/60 Hz 0.022-0.1 µF Capacitance range Capacitance tolerance ± 20%

 100Ω Resistance range Resistance tolerance ± 30%

1000 V Peak pulse voltage

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

Approvals S, N, D, FI, VDE, SEV, UL

Series resistance The series resistance is defined at 100 kHz

Insulation resistance \geq 1000 M Ω

Measured at 500 VDC after 2 min, +23°C

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

transients.

Test voltage between

terminals

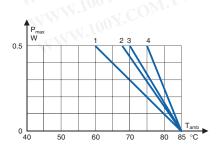
The 100% screening factory test is carried out at 3000 VDC. The voltage level is selected to meet the requirements in applicable equipment standards. All electrical characteristics are checked after the test.

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.



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							Quan	tity per p	ackage		
	Capaci-	Resis-	- Max	dimens	ions in m	nm			reel	Weight	Article code
	tance	tance					R30	R06	taped		
	μE	Ω	В	Н	L	р	pcs	pcs	pcs	g	
	0.022	100	7.3	13.0	19.0	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

for d > 0.8 < 1.5 s

		W
Certification Body	Specification	Approval reference
s www.	EN 132400	9528106
FI	EN 132400	184191-01
N	EN 132400	293103075
D	EN 132400	303424
VDE	EN 132400	91806
SEV	EN 132400	00-1928
UL	UL 1414 Across-the-line (U _R = 25	50 VAC) E 73869

APPROVALS/REFERENCE DOCUMENTS

ENVIRONMENTAL TEST DATA

VibrationIEC 60068-2-63 directions at 2 hour each
10 – 500 Hz at 0.75 mm
or 98 m/s²No visible damage
No open or short circuitBumpIEC 60068-2-294000 bumps at 390 m/s²
Test EbNo visible damage
No open or short circuitSolderabilityIEC 60068-2-20 Solder globule method
Test TaWetting time
for d ≤ 0.8 < 1 s</th>

Active EN 132400

flammability

Passive IEC 60384-14 (1993)

flammability EN 132400

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

MARKING

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

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ORDERING INFORMATION

The article code for the standard part is given in the article table. For other options, see page 12.

