

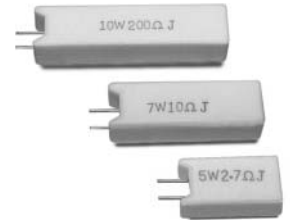


Cement Power Resistors

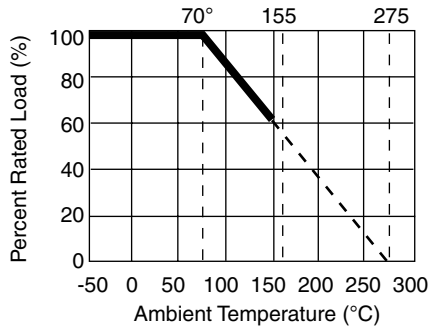
PRM Series

FEATURES

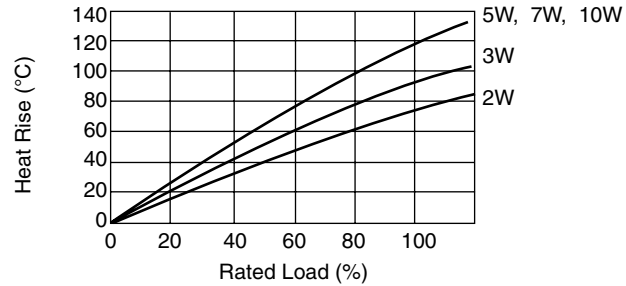
- 5% tolerance
- Exceptionally small, sturdy, and reliable
- Sealed with a special cement
- Excellent moisture resistance
- High temperature stability
- Ceramic flame retardant package
- Recommended wash method is alcohol



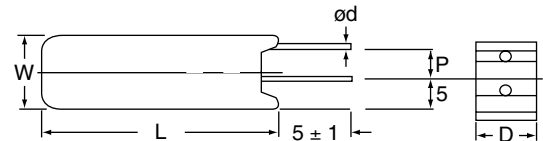
DERATING CHART



HEAT RISE CHART



PART NUMBERING SYSTEM



SERIES, WATTAGE, VALUE RANGE, AND DIMENSIONS

Series	Watts (W)	Range of Values (Ω)		Dimensions (mm)				
		Wirewound	Power Film	W ±1	D ±1	L ±1	ød ±0.05	P ±1
* PRM	5	0.1 ~ 47	48 ~ 100K	12.5	9	25	0.75	5
PRM	7	0.1 ~ 680	681 ~ 200K	12.5	9	38	0.75	5
PRM	10	0.1 ~ 910	911 ~ 200K	12.5	9	50	0.75	5

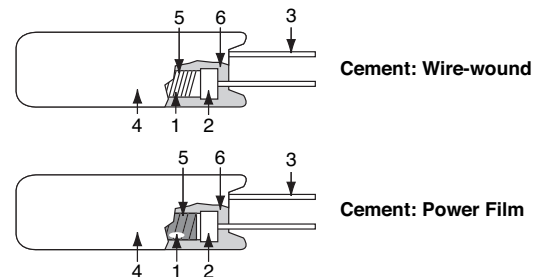
* Leads are centered

STANDARD STOCKED VALUES (Ω) All standard E-24 values not listed are available special order.

0.1	0.3	0.51	1.0	3.0	6.8	15	33	56	68	75	100	150	200	300	330	470	680	1K	2K	4.7K	10K
0.22	0.47	0.68	2.2	4.7	10	20	47														

CONSTRUCTION

No.	Subpart Name	Material	Material Generic Name
1	Body	Rod Type Ceramics	Al ₂ O ₃ , SiO ₂
2	End Cap	Tin plated iron surface	Tin : 5%, Iron : 95%
3	Lead	Annealed copper wire (Electrosolder plated surface) Pb Free	Tin-Coated Copper wire
4	Ceramic Case	Ceramic	Al ₂ O ₃ , SiO ₂
5	Resistance wire Resistance Film	Ni-Cr Alloy Metal Oxide Film	Ni-Cr Alloy Metal Oxide Film
6	Filling Materials	Quartz mixed sand	SiO ₂





Cement Power Resistors

PRM Series

■ CHARACTERISTICS

Characteristics	Limits		Test Methods (JIS C 5201-1)		
Temperature coefficient	± 350 PPM / °C Max. <20Ω ± 400 PPM / °C		5.2 Natural resistance change per temp. degree centigrade. $\frac{R_2-R_1}{R_1(t_2-t_1)} \times 10^6 \quad (\text{PPM} / ^\circ\text{C})$ R1: Resistance value at room temperature (t1) R2: Resistance value at room temp. plus 100 °C (t2)		
Dielectric withstanding voltage	No evidence of flashover, mechanical damage, arcing or insulation break down		5.7 Resistors shall be clamped in the trough of a 90° metallic V-block and shall be tested at AC potential respectively for 60 +10/- 0 secs.		
Temperature cycling	Resistance change rate is ± (2% + 0.05Ω) Max. with no evidence of mechanical damage		7.4 Resistance change after continuous 5 cycles for duty shown below:		
			Step	Temperature	Time
			1	-55 °C ± 3 °C	30 mins
			2	Room temp.	10 ~ 15 mins
			3	+155 °C ± 2 °C	30 mins
4	Room temp.	10 ~ 15 mins			
Short time overload	Resistance change rate is ± (5% + 0.05Ω) Max. with no evidence of mechanical damage		5.5 Permanent resistance change after the application of a potential of 2.5 times RCWV for 5 seconds		
Load life in humidity	Resistance value	Δ R/R	7.9 Resistance change after 1,000 hours operating at RCWV with duty cycle of (1.5 hours "on", 0.5 hour "off") in a humidity test chamber controlled at 40 °C ± 2 °C and 90 to 95 % relative humidity		
	Wire-wound	± 5%			
	Power film: <100KΩ >100KΩ	± 5% ± 10%			
Load life	Resistance value	Δ R/R	7.10 Permanent resistance change after 1,000 hours operating at RCWV with duty cycle of (1.5 hours "on", 0.5 hour "off") at 70 °C ±2 °C		
	Wire-wound	± 5%			
	Power film: <100KΩ >100KΩ	± 5% ± 10%			
Terminal strength	No evidence of mechanical damage		6.1 Direct load : Resistance to a 2.5 kgs direct load for 10 secs. in the direction of the longitudinal axis of the terminal leads Twist test : Terminal leads shall be bent through 90 ° at a point of about 6mm from the body of the resistor and shall be rotated through 360° about the original axis of the bent terminal in alternating direction for a total of 3 rotations		
Resistance to soldering heat	Resistance change rate is ± (1% + 0.05Ω) Max. with no evidence of mechanical damage		6.4 Permanent resistance change when leads immersed to 3.2 to 4.8 mm from the body in 350 °C ± 10 °C solder for 3 ± 0.5 secs.		
Solderability	95 % coverage Min.		6.5 The area covered with a new , smooth clean , shiny and continuous surface free from concentrated pinholes. Test temp. of solder : 245 °C ± 3 °C Dwell time in solder : 2 ~ 3 seconds		



Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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