Cement Resistors

Power Wirewound & Vertical Lead Type

Normal & Miniature Style [PSM Series]

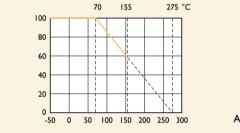
FEATURES

Rated Load (%)

Power Rating	4W, 5W, 7W, 9W
Resistance Tolerance	±5%, ±10%
T.C.R	±400ppm/°C

DERATING CURVE

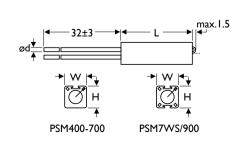
For resistors operated in ambient temperatures above 70°C, power rating must be derated in accordance with the curve below.



Ambient Temperature (°C)

Unit: mm

DIMENSIONS



STYLE		DIMENSION				
Normal	Miniature	L	w	н	ød	
PSM400	-	20±1.0	7.0±0.5	8.0±0.4	0.8±0.02	
PSM500	-	25±1.0	7.0±0.5	8.0±0.4	0.8±0.02	
-	PSM7WS	25±1.0	9.0±0.4	10.0±0.4	0.8±0.02	
PSM700	-	38±1.0	7.0±0.5	8.0±0.4	0.8±0.02	
PSM900	-	38±1.0	10.0±0.4	10.0±0.4	0.8±0.02	

1 WZ M6

INTRODUCTION

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The materials used and the construction techniques ensure excellent flame resistance, arc resistance and moisture resistance as well as self-extinguishing capabilities. They will withstand the most rigorous loading test.

As resistors in radio and television receivers, hazardous conditions such as smoking and redheat can be completely prevented by the proper choice of power resistors.

Note:		

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ELECTRICAL CHARACTERISTICS

STYLE	PSM400	PSM500	PSM7WS	PSM700	PSM900
Power Rating at 70°C	4W	5W	7W		9W
Resistance Range	0.1 Ω - 2.2Κ Ω		0.Ι Ω - 2.5Κ Ω	0.5 Ω - 3.9Κ Ω	
Operating Temp. Range	-55°C to +155°C				
Temperature Coefficient	±400ppm/°C				

Note: Special value is available on request

ENVIRONMENTAL CHARACTERISTICS

PERFORMANCE TEST	TEST METHOD	APPRAISE		
Short Time Overload	IEC 60115-1 4.13	2.5 times RCWV for 5 Sec.	±2.0%+0.05 Ω	
Voltage Proof	IEC 60115-1 4.7	in V-block for 60 Sec., test voltage by type	By type	
Temperature Coefficient	IEC 60115-1 4.8	-55°C to +155°C	By type	
Insulation Resistance	IEC 60115-14.6	in V-block for 60 Sec.	>1,000ΜΩ	
Solderability	IEC 60115-1 4.17	235±5°C for 3±0.5 Sec.	95% Min. coverage	
Solvent Resistance of Marking	IEC 60115-1 4.30	IPA for 5±0.5 Min. with ultrasonic	No deterioration of coatings and markings	
Robustness of Terminations	IEC 60115-1 4.16	Direct load for 10 Sec. in the direction of the terminal leads	≥2.5kg (24.5N)	
Periodic-pulse Overload	IEC 60115-1 4.39	4 times RCWV 10,000 cycles (1 Sec. on, 25 Sec. off)	±2.0%+0.05 Ω	
Damp Heat Steady State	IEC 60115-1 4.24	40±2°C, 90-95% RH for 56 days, loaded with 0.1 times RCVVV	±5.0%+0.05 Ω	
Endurance at 70°C	IEC 60115-1 4.25	70±2°C at RCWV for 1,000 Hr. (1.5 Hr. on, 0.5 Hr. off)	±5.0%+0.05 Ω	
Temperature Cycling	IEC 60115-1 4.19	-55°C ⇔ Room Temp. ⇔ +155°C ⇔ Room Temp. (5 cycles)	±2.0%+0.05 Ω	
Resistance to Soldering Heat	IEC 60115-1 4.18	260±3℃ for 10±1 Sec., immersed to a point 3±0.5mm from the body	±1.0%+0.05 Ω	

Note: Rated Continuous Working Voltage (RCWV) = $\sqrt{Power Rating \times Resistance Value}$