Fiberglass Cement Resistors

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INTRODUCTION

The PSP Series Resistors are wound on Fiberglass core. 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.

Power Wirewound & Axial Lead Type

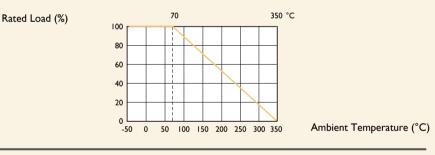
Normal & Miniature Style [PSP Series]

FEATURES

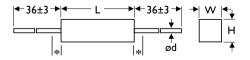
Power Rating	4W, 5W, 7W, 9W, 11W, 17W
Resistance Tolerance	±5%, ±10%
T.C.R	±10ppm/°C, ±40ppm/°C, 400±50ppm/°C

DERATING CURVE

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



DIMENSIONS



* 6mm, reduced solderability in this area

STYLE		DIMENS	ON		
Normal	Miniature	L	w	н	ød
PSP400	-	20±1.0	6.4±0.3	6.4±0.3	0.8±0.02
PSP500	-	25±1.0	6.4±0.3	6.4±0.3	0.8±0.02
-	PSP7WS	25±1.0	9.0±0.3	9.0±0.3	0.8±0.02
PSP700	-	38±1.0	6.4±0.3	6.4±0.3	0.8±0.02
PSP900	-	38±1.0	9.0±0.3	9.0±0.3	0.8±0.02
PSPIIA	-	50±1.5	9.0±0.3	9.0±0.3	0.8±0.02
PSP17A	-		9.0±0.3	9.0±0.3	0.8±0.02

Unit: mm

Note:		

ELECTRICAL CHARACTERISTICS

STYLE	PSP400	PSP500	PSP7WS	PSP700	PSP900	PSPIIA	PSP17A
Power Rating at 70°C	4W	5W	7W		9W	нw	17W
Maximum working voltage	√P×R						
Voltage Proof on Insulation	2000V						
Resistance Range	0.Ι Ω - 9.ΙΚ Ω	0.15 Ω - 15K	Ω	0.33 Ω - 33K	Ω	0.5ΙΩ-47ΚΩ	0.91 Ω - 82K Ω
Operating Temp. Range							
Temperature Coefficient	±10ppm/°C, ±	40ppm/°C, 400±	50ppm/°C				

Note: Special value is available on request

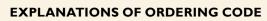
ENVIRONMENTAL CHARACTERISTICS

PERFORMANCE TEST	TEST METHOD		APPRAISE
Short Time Overload	IEC 60115-1 4.13	10 times rated power for 5 Sec.	±2.0%+0.05Ω
Voltage Proof on Insulation	IEC 60115-14.7	in V-block for 60 Sec., test voltage by type	By type
Temperature Coefficient	IEC 60115-14.8	-55°C to +155°C	By type
Insulation Resistance	IEC 60115-14.6	in V-block for 60 Sec.	>10,000ΜΩ
Solderability	IEC 60115-1 4.17	235±5°C for 3±0.5 Sec.	95% Min. coverage
Solvent Resistance of Marking	IEC 60115-14.30	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	≥50N
Periodic-pulse Overload	IEC 60115-1 4.39	4 times RCWV 10,000 cycles (1 Sec. on, 25 Sec. off)	±2.0%+0.05Ω
Damp Heat Steady State	IEC 60115-1 4.24	40±2°C, 90-95% RH for 56 days, loaded with 0.1 times RCWV	±2.0%+0.05Ω
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)	±3.0%+0.05Ω
Temperature Cycling	IEC 60115-1 4.19	-55°C ⇔ Room Temp. ⇔ +155°C ⇔ Room Temp. (5 cycles)	±2.0%+0.05Ω
Resistance to Soldering Heat	IEC 60115-14.18	$260\pm3^{\circ}$ C for 10 ± 1 Sec., immersed to a point 3 ± 0.5 mm from the body	±0.2%+0.05Ω

Note: RCWV(Rated Continuous Working Voltage) = $\sqrt{Power Rating \times Resistance Value}$ or Max. working voltage listed above, whichever less.

Revision: 201304

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MFR	-12	F		F	52-	IOOR
ode I - 3 eries Name	Code 4 - 6 Power Rating	Code 7 Tolerance	Code 8 Packing Style	Code 9 Temperature Coef-	Code 10 - 12 Forming Type	Code 13 - 17 Resistance Valu
ee Index	-05 = ød0.5mm	$P = \pm 0.02 \%$	T = Tape/Box	ficient of Resistance	26- = 26mm	ORI = 0.1
	-06 = ød0.6mm	$A = \pm 0.05 \%$	R = Tape/Reel	- = Base on Spec.	52- = 52,4mm	100R = 100
	-00 = ød0.0mm -07 = ød0.7mm	$B = \pm 0.1 \%$	B = Bulk	$A = \pm 5 \text{ ppm/°C}$	73- = 73mm	100K = 10,000
	-08 = ød0.8mm	$C = \pm 0.25\%$	Buik	$B = \pm 10 \text{ ppm/°C}$	81- = 81mm	10M = 10,000,00
	-10 = ød.0mm	$D = \pm 0.5 \%$		$C = \pm 15 \text{ ppm/°C}$	91- = 91 mm	
	-14 = ød1.4mm	$F = \pm 1\%$		$S = \pm 20 \text{ppm/°C}$	F = FType	
	-12 = 1/6W	$G = \pm 2\%$		D = ±25 ppm/°C	FK = FK Type	
	-25 = 1/4W	$J = \pm 5 \%$		$E = \pm 50 \text{ ppm/°C}$	FKK = FKK Type	
	25S = 1/4WS	$K = \pm 10\%$		F = ±100 ppm/°C	FFK = F-form Kink	
	-50 = 1/2W	- = Base on Spec.		G = ±200 ppm/°C	M = M-Type Forming	
	50S = 1/2WS	base on spee.		H = ±250 ppm/°C	MB = M-form W/flat	
	100 = 1W			I = ±300 ppm/°C	MT = MT Type Forming	
	WS = WS			$J = \pm 350 \text{ ppm/°C}$	MR = MRType	
	200 = 2W			,, F.F	AV = AVIsert	
	2WS = 2WS				PN = PANAsert	
	204 = 0.4W					
	207 = 0.6W					
	300 = 3W					
	3WS = 3WS					
	3WM = 3WM					
	400 = 4W					
	500 = 5VV					
	5WS = 5WS					
	555 = 5WSS					
	700 = 7W					
	7WS = 7WS					
	10A = 10W					
	20A = 20W					
	30A = 30W					
	40A = 40W					
	50A = 50W					
	10S = 10WS					
	15A = 15W					
	25A = 25W					
	10B = 100W					

EXCEPTION:

• Cement series:

<Code 8>: Special packing style code

B: Bulk with wirewound or metal oxide sub-assembly for resistance value W: Bulk with ceramic based wirewound sub-assembly for resistance value $% \mathcal{W}$

M: Bulk with metal oxide sub-assembly for resistance value

F: Bulk with Fiberglass based wirewound sub-assembly for resistance value

<Code 10-12>: Without forming code

Example: SQP500JB-10R

• JPW series:

<Code 13-17>: without resistance value code

Example: JPW-06-T-52-

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