

GENERAL PURPOSE 1W TO 25W CERAMIC-ENCASED RESISTORS

PW SERIES



Term.W is
RoHS
compliant
& 260°C
compatible

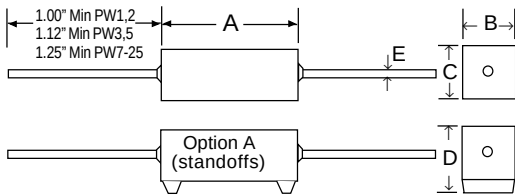


RESISTORS • CAPACITORS • COILS • DELAY LINES

- Low cost and the industry's broadest selection!
- Available from stock in popular sizes (5W & 10W, 0.1Ω to 5K) and selected values in other sizes; non-stock items are available on exclusive **SWIFT™** delivery program
- Tolerance to ±0.05%, TCR to ±5 ppm/°C
- Wide resistance range: .05Ω to 1MegΩ
- Tape & Reel available up to 10W size (Opt.A not avail. on T&R)

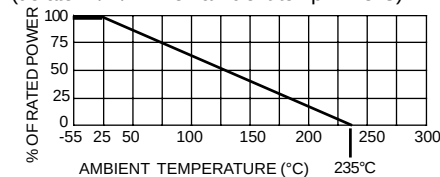
OPTIONS

- Option X: Non-inductive (PW5X & smaller: ≤50Ω=0.2uH max, >50Ω=0.37uH max; PW7X & larger: ≤50Ω=0.3uH max, >50Ω=0.6uH max). Reduced inductance levels available
- Option T: Temp. sensitive (up to +6000ppm/°C)
- Option P: Increased pulse capability
- Option FF: Fuse within 10S at 30x rated W⁴ and within 45S at 20x rated W (1Ω to 1K). Custom fusing characteristics avail.
- Option B: Increased power
- Option A: Standoffs built into ceramic case
- Additional options available... burn-in, special marking, non-standard values, increased voltage, longer or heavier gauge leads, specialty lead wire material/plating/insulation, cut & formed leads, etc. Customized components are an RCD specialty!



DERATING CURVE:

(derate W/V/A when ambient temp. > 25°C)



RCD Type	Wattage		Resis. Range (0.05Ω -	Rated Continuous Working Voltage ¹	DIMENSIONS Inch [mm]				
	Std.	Opt. B			A (Max.)	B ±.032 [.81]	C ±.05 [1.3]	D Max.	E ±.004 [.1]
PW1	1	2	1M	100 ²	.62 [15.8]	.25 [6.4]	.25 [6.4]	N/A	.028 [.7]
PW2	2	3	1M	100 ²	.72 [18.3]	.27 [6.8]	.27 [6.8]	.39 [4.9]	.028 [.7]
PW3	3	5	1M	150 ²	.91 [23.1]	.31 [7.9]	.31 [7.9]	.43 [10.9]	.031 [.8] ³
PW5	5	7	1M	200 ²	.91 [23.1]	.38 [9.7]	.35 [8.9]	.47 [11.9]	.031 [.8] ³
PW7	7	10	1M	350	1.42 [36]	.38 [9.7]	.35 [8.9]	.52 [13.2]	.031 [.8] ³
PW10	10	-	1M	500	1.96 [50]	.38 [9.7]	.38 [9.7]	.52 [13.2]	.031 [.8] ³
PW15	15	-	30K	540	1.96 [50]	.50 [12.7]	.50 [12.7]	.68 [17.2]	.031 [.8] ³
PW20	20	-	40K	600	2.55 [65]	.58 [14.7] max	.50 [12.7]	.70 [17.8]	.031 [.8] ³
PW22	22	-	40K	650	2.55 [65]	.58 [14.7] max	.50 [12.7]	.70 [17.8]	.031 [.8] ³
PW25	25	-	40K	700	2.55 [65]	.58 [14.7] max	.50 [12.7]	.70 [17.8]	.031 [.8] ³

¹ Maximum voltage rating is determined by $E = \sqrt{PR}$, E should not exceed value listed.

² Specify opt. 59 for double voltage rating. ³ Specify opt.18 for 18AWG (.040") diameter leads.

TYPICAL PERFORMANCE FOR SERIES PW

Temperature Coef _{T25-T100}	1Ω and above	100ppm/°C typ., 300ppm max. ¹
	0.05Ω to 1Ω	200ppm/°C typ., 600ppm max. ¹
Operating Temp.	-55° to +235° C ²	
Terminal Strength	5 lbs. minimum	
Dielectric Strength	1000V	
5 Sec. overload (≤1.5x max V)	3X rated wattage (Opt. WW = 5X)	
Moisture Resistance	3.0% ³	
High Temp. Exposure	1.0% ³	
Load Life (1000 hours)	3.0% ³	
Temperature Cycling	2.0% ³	
Shock and Vibration	1.0% ³	

¹ TC to 5ppm available >10Ω, 10ppm 1-10Ω, 20ppm 0.1-1Ω ² 275°C avail ³ Tightened performance avail ⁴ Opt FF max fault nte 1.5x RCWV or 200x W rating

P/N DESIGNATION:

PW10 ☐ - **100** - **J** **B** ☐ **W**

RCD Type _____

Options: X, WW, T, P, M, FF, B, A, 59, 18 (Leave blank if standard)

Resis.Code .05%-1%: 3 signif. figures & multiplier, R100=0.1Ω, 1R00=1Ω, 10R0=10Ω, 1000=100Ω, 1001=1K.

Resis.Code 2%-10%: 2 signif. figures & multiplier, R10=0.1Ω, 1R0=1Ω, 100=10Ω, 101=100Ω, 102=1K. If necessary, use additional (significant) digits, e.g. R005 for 0.005Ω, R0075 for 0.0075Ω in any tolerance.

Tolerance: K=10%, J=5% (std), H=3%, G=2%, F=1%, D=0.5%, C=0.25%, B=0.1%

Packaging: B=Bulk (standard), T= Tape & Reel

Temp. Coefficient (leave blank for standard TC): 5=5ppm, 10=10ppm, 20= 20ppm, 50=50ppm, 101=100ppm, 201=200ppm

Termination: W= Lead-free, Q= Tin/Lead (leave blank if either is acceptable, in which case RCD will select based on lowest price and quickest delivery)