



Features

- Formerly a Riedon™ product
- Resistances to 1 MΩ
- Resistance tolerances to ±0.005 %
- Non-inductive Multi-Pi cores
- TCR to ±2 PPM/°C
- 100 % acceptance tested / traceable to NIST
- Long term stability / 100 ppm/year
- Matched resistance sets to ±0.001 % and ±0.5 ppm/°C
- Flame & moisture resistant protective encapsulation
- RoHS compliant*

1xxPC Series - Riedon™ Precision Radial Wirewound Resistors by Bourns

Specifications

Specification	Value
Tolerances	±0.005 % to ±1 % (See Derating Curve)
Standard Temperature Coefficients ¹	from 1 Ω to 5 Ω : ±50 PPM/°C greater than 5 Ω to 10 Ω : ±30 PPM/°C greater than 10 Ω to 100 Ω : ±20 PPM/°C greater than 100 Ω : ±10 PPM/°C
Temperature Range	-55 °C to +145 °C (See Derating Curve)
Termination Finish	100 % Matte Tin over Copper

¹ Contact Bourns for other options. TCR down to 2 PPM/°C may be available on request.

Additional Information

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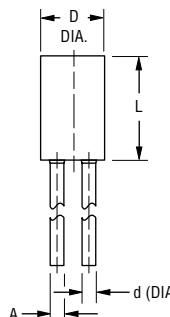


[SAMPLES](#)



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Bourns Model Number	Commercial Power (W)	Resistance Range (Ω) ¹	Dimensions				Max. Working Voltage
			Diameter "D"	Length "L"	Lead Diameter ² "d"	Lead Spacing "A"	
110PC	0.05	1 - 20 k	$\frac{3.3 \pm 0.13}{(.130 \pm .005)}$	$\frac{5.1 \pm 0.64}{(.200 \pm .025)}$	$\frac{0.4 \pm 0.05}{(.016 \pm .002)}$	$\frac{1.915 \pm 0.4}{(.075 \pm .015)}$	150
100PC	0.125	1 - 400 k	$\frac{6.4 \pm 0.13}{(.250 \pm .005)}$	$\frac{9.5 \pm 0.64}{(.375 \pm .025)}$	$\frac{0.6 \pm 0.05}{(.025 \pm .002)}$	$\frac{3.8 \pm 0.4}{(.150 \pm .015)}$	150
130PC	0.125	1 - 400 k	$\frac{6.4 \pm 0.13}{(.250 \pm .005)}$	$\frac{7.9 \pm 0.64}{(.312 \pm .025)}$	$\frac{0.6 \pm 0.05}{(.025 \pm .002)}$	$\frac{3.8 \pm 0.4}{(.150 \pm .015)}$	150
131PC	0.125	1 - 400 k	$\frac{6.4 \pm 0.13}{(.250 \pm .005)}$	$\frac{7.9 \pm 0.64}{(.312 \pm .025)}$	$\frac{0.6 \pm 0.05}{(.025 \pm .002)}$	$\frac{5.1 \pm 0.4}{(.200 \pm .015)}$	150
101PC	0.25	1 - 750 k	$\frac{6.4 \pm 0.13}{(.250 \pm .005)}$	$\frac{12.7 \pm 0.64}{(.500 \pm .025)}$	$\frac{0.6 \pm 0.05}{(.025 \pm .002)}$	$\frac{3.8 \pm 0.4}{(.150 \pm .015)}$ $\frac{5.1 \pm 0.4}{(.200 \pm .015)}$	150
120PC	0.40	1 - 1 M	$\frac{9.5 \pm 0.13}{(.375 \pm .005)}$	$\frac{12.7 \pm 0.64}{(.500 \pm .025)}$	$\frac{0.8 \pm 0.05}{(.032 \pm .002)}$	$\frac{5.1 \pm 0.4}{(.200 \pm .015)}$	300
104PC	0.50	1 - 1 M	$\frac{12.7 \pm 0.13}{(.500 \pm .005)}$	$\frac{12.7 \pm 0.64}{(.500 \pm .025)}$	$\frac{0.8 \pm 0.05}{(.032 \pm .002)}$ $\frac{0.6 \pm 0.05}{(.025 \pm .002)}$	$\frac{7.6 \pm 0.4}{(.300 \pm .015)}$	400



DIMENSIONS: $\frac{MM}{(INCHES)}$
LEAD LENGTH: $\frac{31.75 \pm 6.35}{(1.250 \pm .250)}$

¹ Other resistance values may be available; please [contact Bourns](#).

² Where more than one lead diameter is listed, the **bold** value is standard.



CALIFORNIA WARNING: Can expose you to lead, a carcinogen and reproductive toxicant.
See www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

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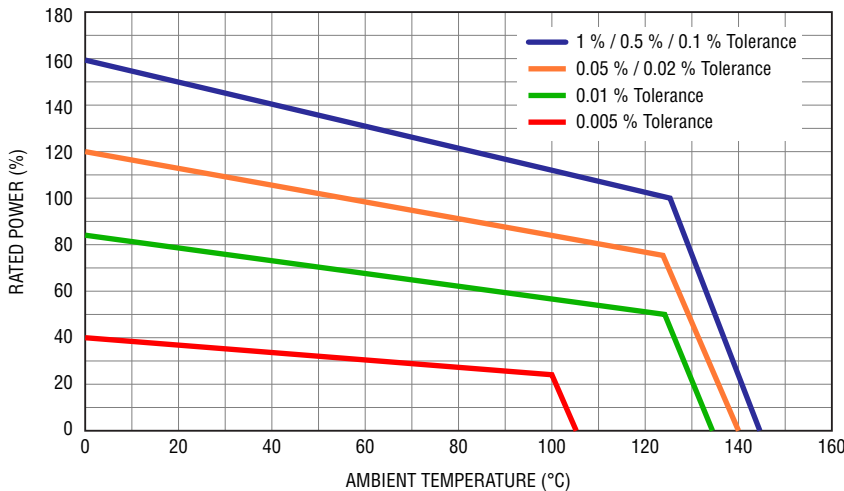
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Power Derating Curves



Factory Options

Fast Rise Time - These resistors are available in a low reactance design for fast rise time and extended frequency response.

High Stability - These resistors are available in a high stability version with maximum resistance change of ± 20 PPM/year under normal conditions.

Wide TCR Range - These resistors are available in low and high TC configurations from -20 PPM/°C to $+6000$ PPM/°C.

Contact Bourns for these options.

How To Order

101PC - 25R X 1

Model _____
(See Specifications Table)

Resistance Code _____
For values $\leq 10K \Omega$, "R"
represents decimal point
(Example: 25R = 25 Ω)

For values $> 10K \Omega$, "K"
represents decimal point
(Example: 1K5 = 1.5K Ω)

Tolerance (%) _____
Y** = ± 0.005 U = ± 0.05 D = ± 0.5 J = ± 5
X** = ± 0.01 B = ± 0.1 F = ± 1 K = ± 10
W** = ± 0.02 T = ± 0.2 G = ± 2
V** = ± 0.025 C = ± 0.25 H = ± 3

Internal Use _____
(Specific TCR values are available upon request.)

** [Contact Bourns](#) for tolerances $< \pm 0.01$ %.

Packaging Specifications

All models 100 pcs. bulk

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