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Vishay Dale Thin Film

High Precision Thin Film Network, Surface Mount Leadless Resistor Arrays

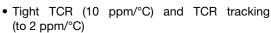


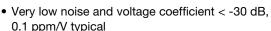
Product may not be to scale

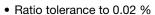
PR arrays can be used in most applications requiring a matched pair (or set) of resistor elements. The networks provide 2 ppm/°C TCR tracking, a ratio tolerance as tight as 0.02 % and outstanding stability. They are available in 1 mm, 1.35 mm and 1.82 mm pitch.

FEATURES

- · Gold terminations over nickel barrier
- · High stability passivated nichrome resistive layer











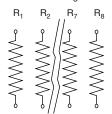


COMPLIANT HALOGEN FREE

SCHEMATIC

Schematic A: Independent Resistors

Electrical Diagram



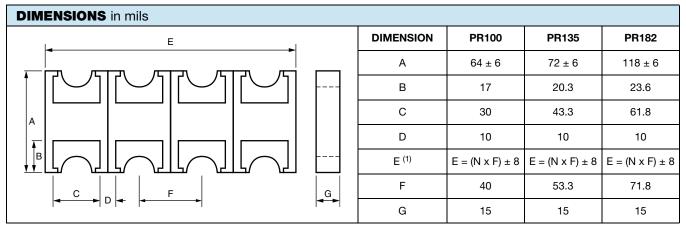
Number of Resistors: 2 to 8 $R_1 = R_2 = \dots R_8$

TEST	SPECIFICATIONS	CONDITIONS	
Material	Passivated nichrome		
Pin/Lead Number	-	-	
	100 Ω to 200 kΩ (PR100)		
Resistance Range	100 Ω to 300 kΩ (PR135)	-	
•	100 Ω to 1 MΩ (PR182)		
TCR: Absolute	± 10 ppm/°C	-55 °C to +125 °C	
TCR: Tracking	± 2 ppm/°C	-55 °C to +125 °C	
Tolerance: Absolute	± 0.1 % to ± 10 %	-	
Tolerance: Ratio	± 0.01 % to ± 0.1 %	-	
	100 mW (PR100)		
Power Rating: Resistor	125 mW (PR135)	At +70 °C	
-	200 mW (PR182)		
Power Rating: Package	-	-	
Stability: Absolute	-	-	
Stability: Ratio	-	-	
/oltage Coefficient	≤ 0.1 ppm/V	-	
	35 V (PR100)		
Working Voltage	75 V (PR135)	-	
	100 V (PR182)		
Operating Temperature Range	-55 °C to +125 °C	-	
Storage Temperature Range	-55 °C to +150 °C	-	
loise	≤ -30 dB	-	
Thermal EMF	-	<u>-</u>	
Shelf Life Stability: Absolute	-	-	
Shelf Life Stability: Ratio	-	-	

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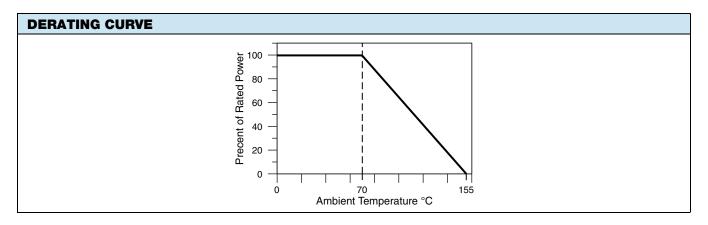
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Notes

- ± 2 mils unless specified
- (1) Where "N" = Number of resistors

MECHANICAL SPECIFICATIONS		
Substrate	Alumina 99.6 %	
Technology	Thin Film	
Film	Passivated nichrome	
Terminations	Solderable gold (Au) over nickel	



PACKAGING

Waffle-pack or tape and reel

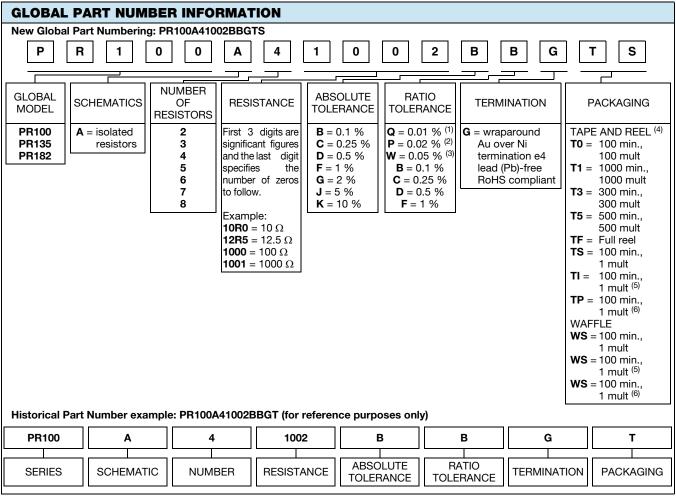
MARKING

On the primary package, printed information includes Vishay trademark series and model, schematic number of resistors, ohmic value, absolute tolerance, ratio tolerance, type of termination



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Notes

- $^{(1)} \geq 1 \text{ k}\Omega$, up to 4 resistors
- $^{(2)}$ > 1 k Ω , max. 4 resistors
- $^{(3)}~>$ 100 $\Omega,$ up to 8 resistors
- (4) Please refer to below table for tape and reel availability
- (5) Item single lot date code
- (6) Package unit single lot date code

TAPE AND REEL AVAILABILITY				
NUMBER OF RESISTORS	PR100	PR135	PR182	
2	Available	Available	Available	
3	••	Available	••	
4	Available	Available	Available	
5	••	Available	Available	
6	Available	Available	••	
7	••	Available	••	
8	Available	••	••	

Note

• Not available, consult factory



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