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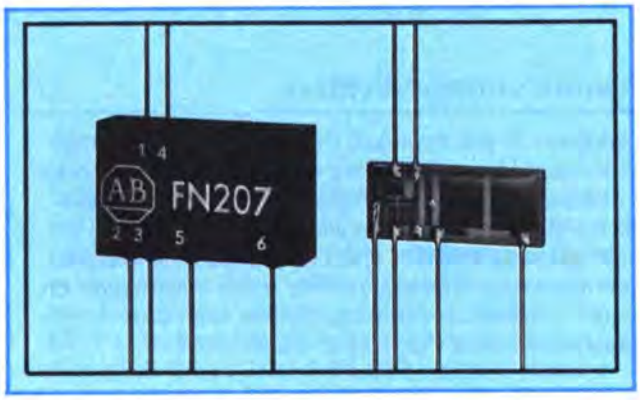
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Series FNPC207 FN207

Precision Voltage Divider



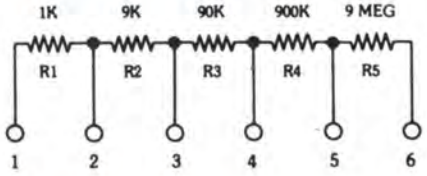
Standard Thin Film Resistor Networks

FEATURES

- 10 Megohms Range
- 5 Decades Attenuation
- .03% Ratios
- 0 to 1000 Volts
- ± 5 ppm/°C Tracking

SPECIFICATIONS

Resistor connections



Electrical capabilities

- Resistance Tolerance on Total Resistance (R_T) at +25°C:

  $R_T = R_1 + R_2 + R_3 + R_4 + R_5 = 10$ Megohms $\pm 0.05\%$

- Ratio Tolerance at +25°C and from 0 to 1000 volts:

$$\frac{R_1 + R_2 + R_3 + R_4}{R_T} = \frac{1 \text{ Megohm}}{10 \text{ Megohms}} = 0.1 \pm 0.03\%$$

$$\frac{R_1 + R_2 + R_3}{R_T} = \frac{100 \text{ K ohms}}{10 \text{ Megohms}} = 0.01 \pm 0.03\%$$

$$\frac{R_1 + R_2}{R_T} = \frac{10 \text{ K ohms}}{10 \text{ Megohms}} = 0.001 \pm 0.03\%$$

$$\frac{R_1}{R_T} = \frac{1 \text{ K ohm}}{10 \text{ Megohms}} = 0.0001 \pm 0.03\%$$

- Temperature Coefficient of Resistance — ±25 ppm/°C
- TCR Tracking — ± 5 ppm/°C
- Operating Voltage (between pins 1 and 6) 1000 volts maximum
- Operating Temperature — 0°C to +70°C
- Storage Temperature — −65°C to +175°C
- Operating Power at 1000 Volts:

  9 Megohms — 90 mw
  900K ohms — 9 mw
  90K ohms — .9 mw
  9K ohms — .09 mw
  1K ohms — .01 mw

- Voltage Coefficient — 0.01 ppm/volt or less.

Applications

— Input attenuation
— Range selection
— Digital instrumentation
— Digital voltmeters
— Digital multimeters

Refer to Application Note EC5515-4.2 for additional information on Voltage Divider Networks.

NOT AVAILABLE FROM STOCK AT ELECTRONIC DISTRIBUTORS.

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Advantages

The conventional method of satisfying precision attenuator requirements in digital instrumentation has been with voltage dividers assembled from discrete wirewound or film resistors. The FN207/FNPC207 precision thin film voltage divider networks offer the following advantages over conventional voltage dividers:

Uniform characteristics — All resistors are deposited onto the substrate simultaneously to provide similar electrical and environmental behavior.

Reliability — All interconnections are metal film — no soldered or welded joints.

Size reduction — The FN207/FNPC207 combine resistance values from 9 megohms to 1 K ohm in a single package. This size reduction offers an inherent savings in instrument space, resulting in reduced instrument size and cost.

Elimination of multimeter calibration adjustments — Precision resistance matching tolerances combined with low temperature characteristics provide attenuator accuracies which eliminate most of the normal calibration requirements in digital multimeters.

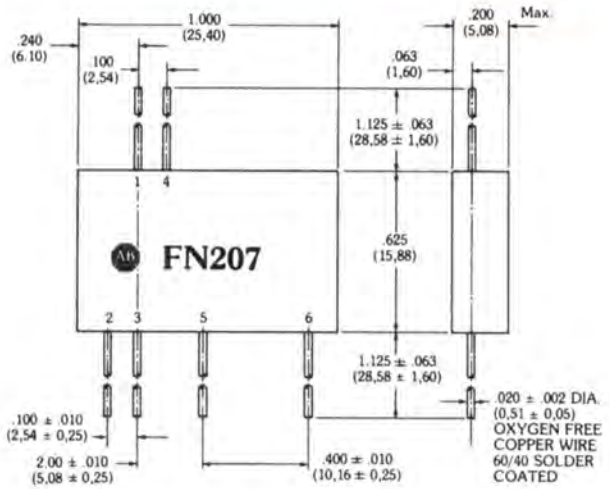
Cost savings — All resistors are deposited simultaneously on a single substrate, eliminating the cost of handling and ratio matching individual discrete resistors. In addition, there is only one part to stock, inspect, and assemble into a printed circuit board.

Custom voltage dividers

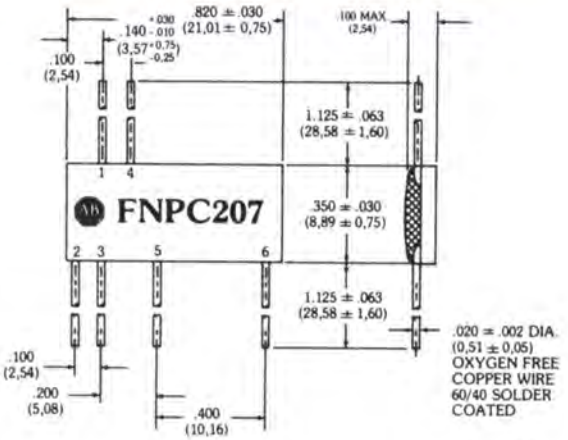
In addition to the standard FN207/FNPC207 voltage divider listed herein, custom voltage divider networks can be manufactured with a large range of resistors and resistance values. They can be designed into a single package to meet specific applications in digital multimeter instrumentation. For more information on custom resistor network capabilities see Allen-Bradley Technical Publication EC5510-2.1

DIMENSIONS

Packaged (Diallylphthalate Case) FN207



Conformally coated (RTV Silicone) FNPC207



Basic dimensions in inches.
Dimensions shown in parentheses are in millimeters.

TOLERANCES
Dimensional Tolerance ±.015 (0,38)
Except as Specified.

NOT TO SCALE

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