# Type T912 and T914 Precision Resistor Networks

## Resistor Pairs and Quads with Ratio Characteristics for Precision Analog Circuits

Type T912 and T914 Precision Resistor Networks are constructed with Caddock Tetrinox® resistance films to achieve the precise ratio performance and stability required by highly accurate amplifier circuits, voltage reference circuits, and precision bridge circuits.

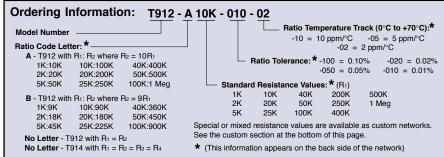
- Ratio Tolerance from 0.1% to 0.01%.
- Ratio Temperature Coefficient 10 ppm/°C, 5 ppm/°C or 2 ppm/°C.
- Absolute Temperature Coefficient 25 ppm/°C.
- Ratio Stability of Resistance at Full Load for 2,000 hours within 0.01%.
- Shelf Life Stability of Ratio for 6 Months within 0.005%.

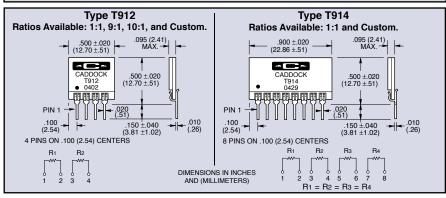
Both the T912 and the T914 are available in 14 standard resistance values between 1K and 1 Megohm. Caddock's high thru-put manufacturing capability assures that prototype and large-volume production quantities are available either from stock or within 6 weeks after receipt of order.

### Standard Type T912 and Type T914 Precision Resistor Networks

In addition to the 14 standard **equal value** models of the Type T912 and T914, the Type T912 can also be ordered with:

- 10:1 Resistance Ratio for use in amplifier gain-setting.
- 9:1 Resistance Ratio for use in voltage reference dividers.





#### **Specifications:**

Absolute Tolerance: ±0.1% for all resistors.

**Absolute Temperature Coefficient:** 25 ppm/°C referenced to +25°C, ΔR taken at 0°C and +70°C.

Ratio Tolerance: Options for ratio tolerance are provided as shown in the Ordering Information panel.

Ratio Temperature Coefficient: Options for ratio temperature coefficient are provided as shown in the Ordering Information panel.

Voltage Rating: 30 volts DC or RMS AC applied to R1, R2, R3 and R4.

**Power Rating:** 0.10 watt applied to R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> and R<sub>4</sub> (not to exceed rated voltage).

Package Power Rating: Type T912, 0.20 watt. Type T914, 0.40 watt.

Storage Temperature: -55°C to +105°C.

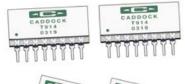
Insulation Resistance Between Isolated Pins: Pin 2 to Pin 3, Pin 4 to Pin 5, or Pin 6 to Pin 7, 1,000 Megohms, minimum.

**Dielectric Strength Between Isolated Pins:** 50 volts RMS AC.

#### Custom Model T912 and T914 Precision Resistor Networks

For applications requiring non-standard resistance values, the T912 and T914 custom configurations can include these special features:

- Mixed resistance values with a maximum ratio of 250-to-1. (Example: 1 Megohm and 4 K)
- Absolute TC as low as 15 ppm/°C.
- Ratio TC as low as 2 ppm/°C.
- · Custom voltage ratings.
- Matched resistors of any special value between 1 K and 2 Megohms.





Contact our Applications Engineering for performance, price, and availability of these custom resistor networks.

**Applications Engineering** 17271 North Umpqua Hwy. Roseburg, Oregon 97470-9422 Phone: (541) 496-0700 Fax: (541) 496-0408

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