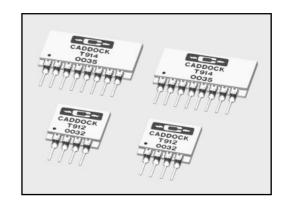
## **Type T912 and T914 Precision Resistor Networks**

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

Type T912 and T914 Precision Resistor Networks are constructed with Caddock Tetrinox<sup>®</sup> 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%.

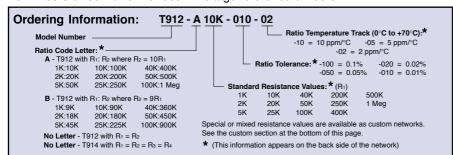
Both the T912 and the T914 are available in 14 standard resistance values between 1,000 ohms and 1 Megohm. Caddock's high thru-put manufacturing capability assures that prototype and large-volume production quantities are available either from stock or within 6 weeks after receipt of order.

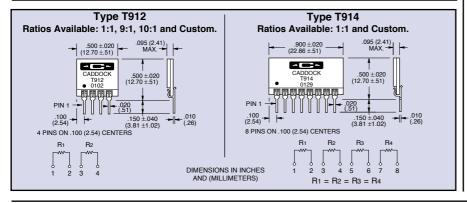


### Standard Type T912 and Type T914 Precision Resistor Networks

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:**  $\pm 0.1\%$  for all resistors.

Absolute Temperature Coefficient:  $\pm 25$  ppm/°C referenced to +25°C,  $\Delta R$  taken at 0°C and +70°C.

Voltage Rating: 30 volts DC or RMS AC applied to R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> and R<sub>4</sub>.

**Power Rating:** 0.10 watt applied to  $R_1$ ,  $R_2$ ,  $R_3$  and  $R_4$  (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.

**Ratio Stability Under Load:** Ratio change between any two resistors in the network under full load for 2,000 hours at +70°C, 0.01% maximum.

**Shelf Stability of Ratio:** Six months at shelf conditions, 50 ppm maximum.

#### **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: 1.0 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.





Call or write 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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