

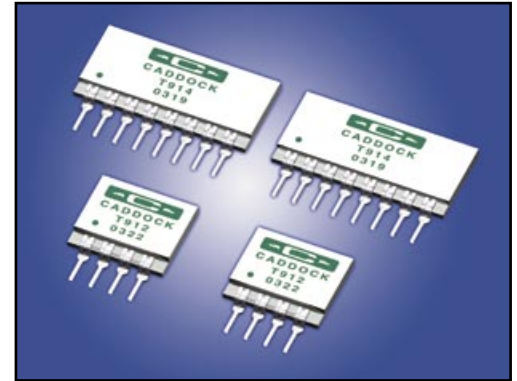
Type T912 and T914 Precision Resistor Networks

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.

Ordering Information: T912 - A 10K - 010 - 02

Model Number

Ratio Code Letter: *

A - T912 with $R_1 : R_2$ where $R_2 = 10R_1$
1K:10K 10K:100K 40K:400K
2K:20K 20K:200K 50K:500K
5K:50K 25K:250K 100K:1 Meg

B - T912 with $R_1 : R_2$ where $R_2 = 9R_1$
1K:9K 10K:90K 40K:360K
2K:18K 20K:180K 50K:450K
5K:45K 25K:225K 100K:900K

No Letter - T912 with $R_1 = R_2$

No Letter - T914 with $R_1 = R_2 = R_3 = R_4$

Ratio Temperature Track (0°C to +70°C):*

-10 = 10 ppm/°C -05 = 5 ppm/°C

-02 = 2 ppm/°C

Ratio Tolerance: *

-100 = 0.10% -020 = 0.02%

-050 = 0.05% -010 = 0.01%

Standard Resistance Values: * (R_1)

1K	10K	40K	200K	500K
2K	20K	50K	250K	1 Meg
5K	25K	100K	400K	

Special or mixed resistance values are available as custom networks. See the custom section at the bottom of this page.

* (This information appears on the back side of the network)

Specifications:

Absolute Tolerance: $\pm 0.1\%$ 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 R_1 , R_2 , R_3 and R_4 .

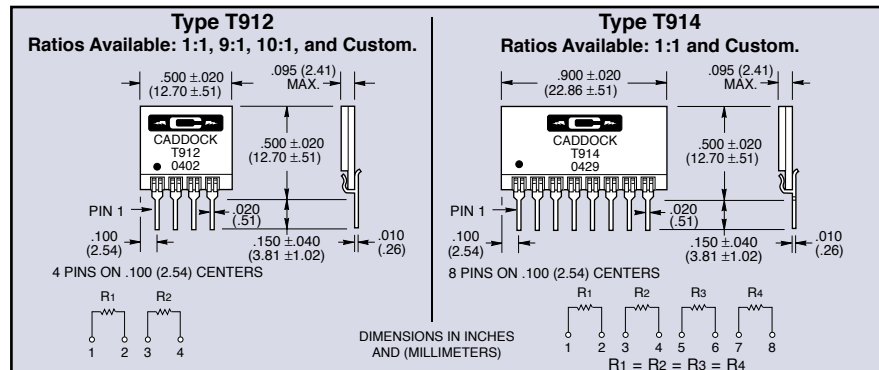
Power Rating: 0.10 watt applied to R_1 , R_2 , R_3 and R_4 (not to exceed rated voltage).

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.

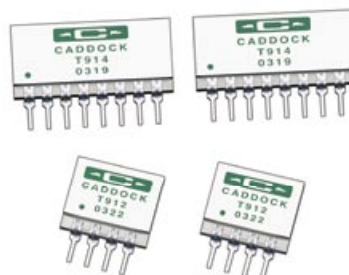
Dielectric Strength Between Isolated Pins: 50 volts RMS AC.



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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Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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