

# Type T1794 Custom Low Temperature Coefficient Precision SIP Resistor Networks

## Low Absolute TC and Ratio TC in Resistor Networks with Custom Performance

The exceptional design flexibility provided by the Type T1794 Custom Low TC Precision SIP Resistor Networks gives each circuit designer the freedom to choose the precise combination of specifications required to optimize both the performance and the price of custom precision and ultra-precision resistor networks.

For precision analog designs with special circuit requirements, Caddock's Type T1794 Custom Low TC Precision SIP Resistor Networks are available with performance that includes:

- **Resistance Values:** from 500 ohms to as high as 50 Megohms.
- **Absolute Tolerances:**  $\pm 1.0\%$ ,  $\pm 0.50\%$ ,  $\pm 0.25\%$ ,  $\pm 0.20\%$ ,  $\pm 0.10\%$ ,  $\pm 0.05\%$ , or  $\pm 0.025\%$ .
- **Ratio Tolerances:**  $\pm 1.0\%$ ,  $\pm 0.50\%$ ,  $\pm 0.25\%$ ,  $\pm 0.20\%$ ,  $\pm 0.10\%$ ,  $\pm 0.05\%$ ,  $\pm 0.025\%$ , or  $\pm 0.010\%$
- **Absolute Temperature Coefficient:** 50 ppm/ $^{\circ}\text{C}$ , 25 ppm/ $^{\circ}\text{C}$ , or 15 ppm/ $^{\circ}\text{C}$  from  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ .
- **Ratio Temperature Coefficient:** 50 ppm/ $^{\circ}\text{C}$ , 25 ppm/ $^{\circ}\text{C}$ , 10 ppm/ $^{\circ}\text{C}$ , or 5 ppm/ $^{\circ}\text{C}$  from  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ .
- **Ratio-of-Ratios:** as required, to as close as 0.025%.

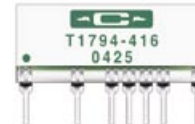
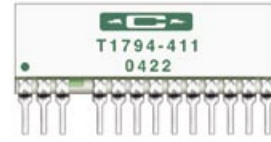
The unique thin-profile, single-in-line edge-mount package design allows the wide range of flexibility necessary to blend the performance of Tetrinox<sup>®</sup> resistance technology with particular circuit specifications to arrive at the final network package size, pin spacing and pin style.

By optimizing both performance and configuration, many designers find that these precision networks can achieve savings in both component costs and insertion costs, as compared to discrete precision resistors - even in production lot quantities as low as 1,000 units.

Applications for the Type T1794 Custom Low TC Precision SIP Resistor Networks include:

- **Voltage Divider Networks**
- **Amplifier Gain-Setting Networks**
- **Differential Input Networks**
- **Attenuator Networks**
- **Current-to-Voltage Converter Sense Networks**

Our high thru-put manufacturing capability is now committed to the production of these custom precision resistor networks. Custom network designs for requirements that range from 500 networks per year to 400,000 networks per year are now in production.



### Optional Pin Style



Low profile, single-in-line package with one row of right-angle pins.