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# Type 1789 Custom Low Resistance Value Precision SIP Resistor Networks

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## Low Resistance Custom Resistor Networks with Values as Low as 0.5 ohm

The design flexibility achieved by Caddock's advanced resistance film technologies is extended to low resistance values in precision resistor networks through the application of Caddock's Micronox® resistance films.

By applying this technology to the low-profile, single-in-line package configuration, the Type 1789 Custom Low Resistance Value Precision SIP Resistor Networks are available with a combination of features, which include:

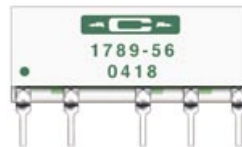
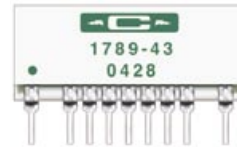
- **Resistance Values:** from 0.5 ohm to 10,000 ohms.
- **Absolute Tolerances:**  $\pm 1.0\%$ ,  $\pm 0.50\%$ ,  $\pm 0.25\%$ ,  $\pm 0.20\%$ ,  $\pm 0.10\%$ , or  $\pm 0.05\%$ .
- **Ratio Tolerances:**  $\pm 1.0\%$ ,  $\pm 0.50\%$ ,  $\pm 0.25\%$ ,  $\pm 0.20\%$ ,  $\pm 0.10\%$ , or  $\pm 0.05\%$ .
- **Absolute Temperature Coefficient:** 100 ppm/°C, 80 ppm/°C, or 50 ppm/°C from 0°C to +70°C.
- **Ratio Temperature Coefficient:** 80 ppm/°C, 50 ppm/°C, 25 ppm/°C, or 15 ppm/°C from 0°C to +70°C.
- **Power Rating:** 100 mW to 2 Watts per resistor.

Where high accuracy and low resistance values must be combined - as in high accuracy current measurement circuitry - Kelvin terminations can be provided for low resistance values to minimize lead resistance errors.

The optimum design of Type 1789 Custom Low Resistance Value Precision SIP Resistor Networks is best achieved when the performance of Micronox® resistance film technologies is blended with particular circuit specifications and the unique thin-profile, single-in-line package design to arrive at the final network package size, pin spacing, and pin style.

Applications for the Type 1789 Custom Low Resistance Value Precision SIP Resistor Networks include:

- **Current Summing Networks**
- **Precision Termination Networks**
- **Precision Current Sense Resistor Networks**
- **Impedance Matching Networks**



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## Design Assistance in Developing Custom Resistor Networks

For immediate engineering assistance on the custom precision resistor network configuration that can best meet your needs, contact our Applications Engineering and we will be pleased to provide design assistance, technical performance information, and pricing information.

**Applications Engineering**  
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