Temperature Sensing Wirewound Resistors
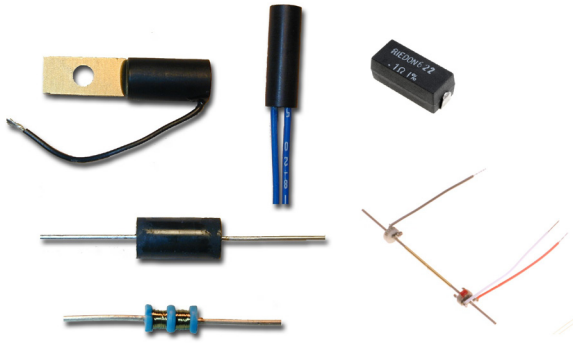
- **Standard TCRs available to 6000ppm/K**
- **Engineering assistance available for application support**
- **Custom TCRs developed for special applications**
- **Customized packages available**
- **Short Lead Times on samples and stock TCRs**

Many of Riedon's Wirewound products are available in special high Temperature Coefficients of Resistance (TCR) ideal for use in temperature sensing applications. Special TCRs are most commonly used with our precision wirewound resistors series (100, SM, PC) but may also be used in our power series (UT, UB) and our surface mount series (S). Custom packages can also be designed to meet your specifications. Please inquire directly if you have a unique application and our applications engineering department will assist you from start to finish.

Wirewound sensors provide for the most accurate temperature measurements over a wide range of temperatures and with the most flexibility as to TCR selected.

We provide high temperature elements with all-welded construction for use in high stress and vibration applications. Wirewound sensors provide users with the stability, uniformity, and repeatability needed for critical performance criteria.

Common Applications:
HVAC controls, Industrial Temp Probes, Aerospace Sensors, Compensation Resistor, Process Control

The table below displays commonly used wires in high TCR applications. Since Riedon stocks these wires, lead times are short when selecting a high TCR wire. Selection of TCR is not limited to what is listed in the table - other TCRs are attainable by using different manufacturing techniques. Please inquire directly if you have a TCR requirement that is not listed in the table.

Common High TCR Wires	
Wire	**Temperature Range (0°C - 100°C)[1]**
Rediseal	3500 ± 300
Platinum	3850 ± 300
Copper	3900 ± 300
BALCO	4400 ± 300
Nickel-5000	5000 ± 300
Nickel-6000	6000 ± 300

[1]Reference Temperature at 25°C

Ordering Information

Part Number - Resistance - Tolerance - TCR (If not standard)
Example: 101 1K 1% 4400ppm