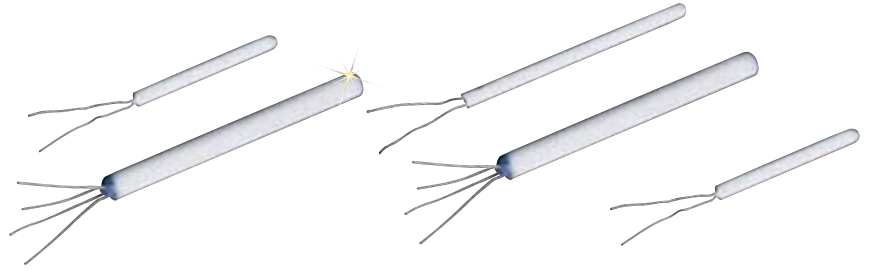


# Ceramic Wire-Wound Platinum RTD Elements

All Models



To Order				
Dimensions in millimeters (1 mm = 0.03937")	Nominal Resistance (ohms)	Temperature Range, °C (°F)	Model No.	Self-Heating Error in °C/mW Flowing Air V = 1m/sec
	1 x 100	-200 to 600 (-330 to 1110)	<b>1PT100KN815</b>	0.28
	1 x 100	-200 to 600 (-330 to 1110)	<b>1PT100KN1510</b>	0.14
	1 x 100	-200 to 850 (-330 to 1560)	<b>1PT100K2515</b>	0.08
	1 x 100	-200 to 600 (-330 to 1110)	<b>1PT100KN2510</b>	0.07
	1 x 100	-200 to 600 (-330 to 1110)	<b>1PT100KN3026</b>	0.04
	1 x 100	-200 to 600 (-330 to 1110)	<b>1PT100KN1515</b>	0.08
	1 x 100	-200 to 600 (-330 to 1110)	<b>1PT100KN3045</b>	0.01
	1 x 100	-200 to 600 (-330 to 1110)	<b>1PT100KN2515</b>	0.07
	2 x 100	-200 to 850 (-330 to 1560)	<b>*2PT100K2517</b>	0.06
	2 x 100	-200 to 600 (-330 to 1110)	<b>*2PT100KN3045</b>	0.01
	2 x 100	-200 to 600 (-330 to 1110)	<b>*2PT100KN3026</b>	0.04

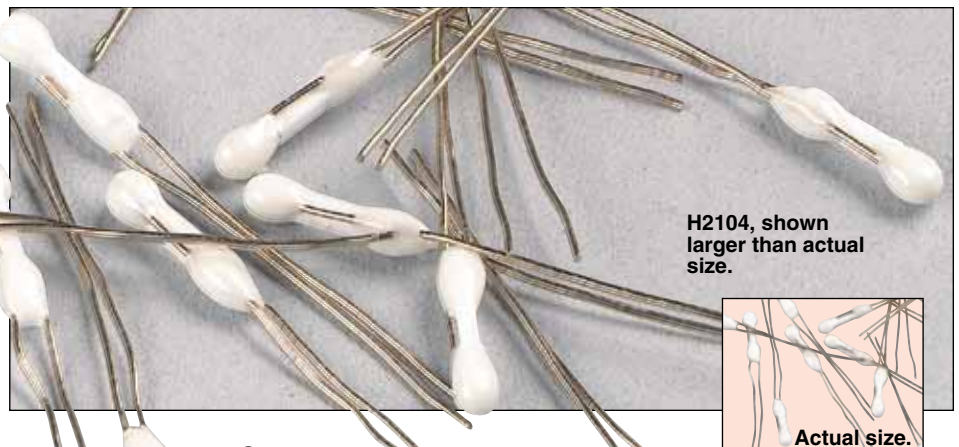
\* Dual elements. All RTD elements come standard with 10 mm bare leads. Welded insulated extension leads available. Pricing is dependent on lead style.

**Ordering Examples:** **1PT100KN815**,  
1 x 100 Ω self-heating error  
of 0.28 ceramic wire-wound  
platinum RTD elements.

**1PT100KN1515**, 100 Ω, 1.5 D x 15 mm L,  
ceramic wire wound RTD.

## Discount Schedule

1 to 4 units .....	Net
5 to 10 units .....	4%
11 to 24 units .....	6%
25 to 49 units .....	10%
50 to 99 units .....	11%
100 units and up .....	13%



H2104, shown  
larger than actual  
size.

Actual size.

# Class B Tolerance (Per IEC751)

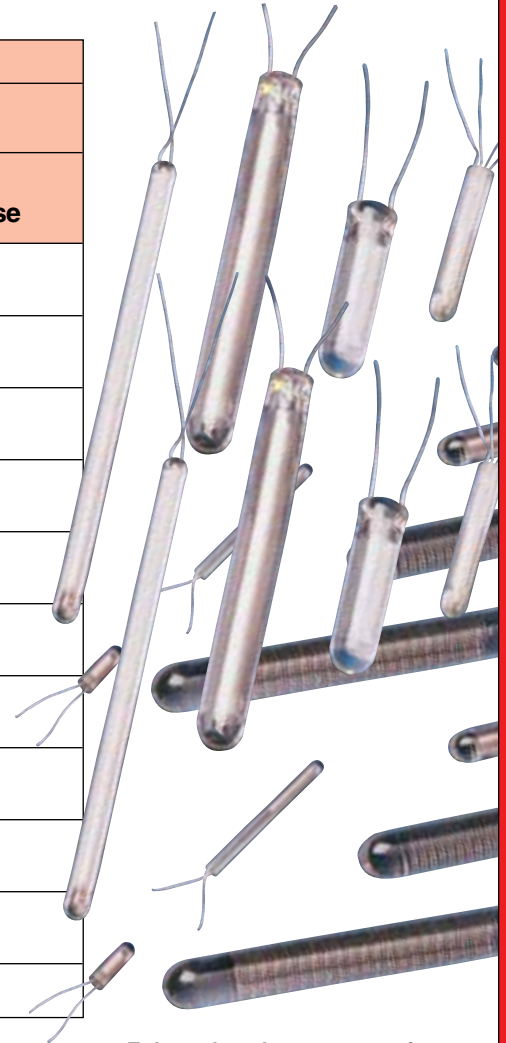
## Alpha = 0.00385

Ceramic wire-wound platinum RTD elements are made by placing a coiled platinum wire into a ceramic core and sealing the ends off with glass. They are suitable for extremely low or high temperatures

and are tolerant of thermal shocks. They offer limited vibration resistance (depending on mounting method) and should be used in dry environments only.



Response Time in Seconds			
Flowing Water V = 0.4 m/sec		Moving Air V = 1 m/sec	
50% Response	90% Response	50% Response	90% Response
0.2	0.5	6.7	21.8
0.2	0.3	3.0	9
0.2	0.4	5.7	17
0.2	0.4	3.0	8.8
0.3	0.6	10.5	34.0
0.2	0.4	5.0	15.7
0.40	1.4	26.0	90.0
0.2	0.4	5.3	16.0
0.2	0.4	6.1	19.0
0.4	1.4	26.8	83.7
0.30	0.6	11	36.0



Enlarged to show construction. See previous page for dimensions.

### RTD Elements for Tight Spaces

Model Number	Temperature Range	Nominal Resistance (Ω)	Dimensions
A2102*	-50 to 400°C (-60 to 750°F)	1 x 100	4 L x 5 W x 2 mm D (0.16 x 0.20 x 0.08")
A2105*	-50 to 400°C (-60 to 750°F)	1 x 100	2 L x 2.4 W x 2 mm D (0.08 x 0.09 x 0.08")
A2132*	-50 to 400°C (-60 to 750°F)	1 x 500	4 L x 5 W x 2 mm D (0.16 x 0.20 x 0.08")
A2142*	-50 to 400°C (-60 to 750°F)	1 x 1000	4 L x 5 W x 2 mm D (0.16 x 0.20 x 0.08")
H2104	-50 to 600°C (-60 to 1110°F)	1 x 100	1.5 Dia. x 4 mm L (0.06 x 0.20")

\* These elements have leads perpendicular to the body for surface measurements. Curve is European  $\alpha = 0.00385$ . All RTD elements available with welded PTFE insulated extension  
**Ordering Examples:** A2102, 1 x 100 Ω, 4 mm L RTD elements.  
 A2142, 1000 Ω, 4 x 5 mm RTD element.

Discount Schedule	
1 to 4 units . . . . .	Net
5 to 10 units . . . . .	4%
11 to 24 units . . . . .	6%
25 to 49 units . . . . .	10%
50 to 99 units . . . . .	11%
100 units and up . . . . .	13%