

ERTD2 Temperature Sensor



Eurosensor

Pt ThinFilm Measuring Resistor

- PT100 or PT1000
- Excellent long-term stability, RoHS compliant
- Low self-heating
- Temperature range -200° C to +300° C
- Tolerance Classes A (F0.15) or B(F0.3) available
- Small package size 2 x 2 x 1.3 mm

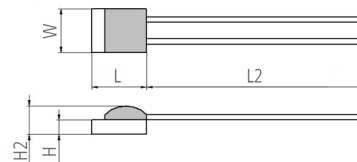


Variohm ERTD2 series ThinFilm Platinum Elements are durable and designed for applications where long term stability, interchangeability and accuracy over a large temperature range are important. Applications include automotive, white goods, HVACR, energy management, medical and industrial.

Technical information

Specification	DIN EN 60751 (according to IEC 751)		
Temperature range	-200° C to +300° C		
Nominal resistance	100 Ω at 0° C 1000 Ω at 0° C		
Long-term stability	< 0.04% at 1000 h at maximal operating temperature		
Tolerance class	Class A IEC 60751 F0.15	\pm deviations in °C 0.15 + 0.002 x T	Temperature range of validity in °C -30 to +300
	Class B IEC 60751 F0.30	0.30 + 0.005 x T	-50 to +300
Accuracy at -200°C	typical 0 > DT > -700 mK		
Dimensions	2 x 2 x 1.3 mm		
Contacts	Nickel wire gold coated, \varnothing 0.2 mm, 10 mm long		
Recommended applied current (self heating must be considered)	1 mA at 100 Ω 0.3 mA at 1000 Ω		
Environmental conditions	Unhoused for dry environments only		
Note	Other tolerances, values of resistance and wire lengths are available on request.		

Typical dimensions in mm



L x W x H / H2; L2 [mm] 2 x 2 x 0.65 / 1.3; 10
Ni-wire Au-coated, \varnothing 0.2

Ordering Information

(Please use the characters in the chart below to construct your product code)

Sample Code: **ERTD2 - PT - 100 - A - 3850**

Series	Material	Resistance at 0°C	Tolerance Class	Thermal Coefficient (ppm/K)
ERTD2	PT = Platinum	100 = 100 Ω 1000 = 1 k Ω	A = Class A B = Class B	3850