## Housed Platinum Resistance Temperature Detector

## **SOT 223**

Heraeus

The Pt1000 PRTD in a standard SOT 223 housing is characterized by its standardized signal according to DIN EN 60751 (according to IEC 751), interchangeability, high long time stability and accuracy. It is designed for automatic mounting in electronic applications and serves e. g. for temperature compensation on PCBs. It is equipped with a cooling fin improving thermal contact to the PCB.

Nominal Resistance R0	<b>Tolerance</b> DIN EN 60751 1996-07	<b>Tolerance</b> DIN EN 60751 2009-05	Order Number
1000 Ohm at 0℃	Class 2B	F 0,6	32 209 116
ther resistances and	l tolerances on requ	uest!	
pecification		N EN 60751 ccording to IEC 751)	
Cemperature range		0℃ to +150℃ blerance Class 2B: -5	0℃ up to +150℃
Temperature coeffic	cient TC	CR = 3850 ppm/K	
oldering connection	on Cu	u alloy with Sn coati	ng
ong-term stability	ma	ax. R₀-drift 0.04% aft	er 1000 h at 150℃
Resistance to soldering heat	ma	ax. deviation 0.03% a	after 10s at 260℃
Self heating	m 0.2	049 K/mW at 0°C; iounted on PCB 2 K/mW at 0°C; ickage only	
Response time		ater current (v = 0.4 n r stream (v = 2 m/s):	n/s): $t_{0.5} = 0$ $t_{0.9} = 2$ $t_{0.9} = 2$
Measuring current		$000\Omega$ : 0.1 to 0.3mA elf heating has to be	considered)
Flammability	UL	_ 94-V0	
Specific volume resistance	10 15	00°C: 14 x 10 <sup>14</sup> Ωcm 50°C: 0.3 x 10 <sup>12</sup> Ωcn	n
Physical data of housing	co the	aterial: duroplastic pefficient of thermal e ermal conductivity: 1. oisture absorption: Be	04 W/mK
Storing information	<u>&lt;</u> ^	1 year (in dry environ	ments) for best so
Packaging	"Fa	ace-up" in blister ree	I
Note		ther tolerances and v ailable on request.	alues of resistance
Ve reserve the right to particular properties to any		nd technical data printed	d. All technical data s

Heraeus Sensor Technology USA 1901 Route 130 North Brunswick, NJ 08902 Phone 732-940-4400 Fax 732-940-4445 Email info.hst-us@heraeus.com http://heraeus-sensor-technology-us.com

Name of document: 30910040 Index D Status: 03/2013