

SP Series – High Accuracy NTC Thermistors

The SP series is a range of interchangeable, epoxy coated bead NTC thermistors. These RT curve matched thermistors have become industry standards.

They are ideal for the applications listed below due to their fast thermal response time and high accuracy, typically $\pm 0.2K$ over 0 to 70°C. Even more accurate versions and interchangeability over a wider temperature range are available.

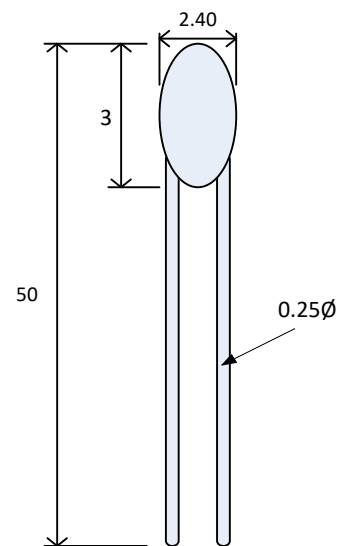


Applications

- Home Automation / IOT Devices
- Industrial electronics / instrumentation
- Automotive electronics
- Medical applications

Features

- Fast response design
- Standard accuracy $\pm 0.2K$ (over 0-70°C)
- Interchangeable between NTC's
- Excellent long-term stability
- Operating range -50°C to 150°C



Typical dimensions in mm

Temperature coefficient at 25°C	P25	$\geq 4\%/^{\circ}C$
Reference Temperature	Tn	25°C
Dissipation factor (in air)	δth	Approx. 1.5mW/K
Thermal time constant (in air)	Tc	Approx. 10s

R25(Ω)	B 25/85 (K)	$\pm 0.1K$ (0~70°C)	$\pm 0.2K$ (0~70°C)	$\pm 0.5K$ (0~70°C)
2.252k	3977	232SP - E050	232SP - F050	232SP - G050
3k	3977	302SP - E050	302SP - F050	302SP - G050
5k	3977	502SP - E050	502SP - F050	502SP - G050
10k	3977	103SP - E050	103SP - F050	103SP - G050
30k	4262	303SP - E050	303SP - F050	303SP - G050
50k	4262	503SP - E050	503SP - F050	503SP - G050
100k	4262	104SP - E050	104SP - F050	104SP - G050

Options

Other R25 values, B values, tolerances and encapsulation available. Various insulated lead-wires options can also be supplied.

For further information please contact us at sales@atcsemitec.co.uk