

## Semitec JT Thermistor – Ultra-thin, high accuracy NTC

Semitec JT thermistors are very flexible and are less than 0.5mm thick which allows them to be installed in spaces as thin as a credit card. JT thermistors have excellent electrical insulation and can be safely used in Li-ion batteries, motherboards and space critical designs.

### Applications

- Battery packs, chargers
- IOT devices
- Medical devices
- Fire & security devices
- Surface temperature sensors
- Fast response air temperature sensors

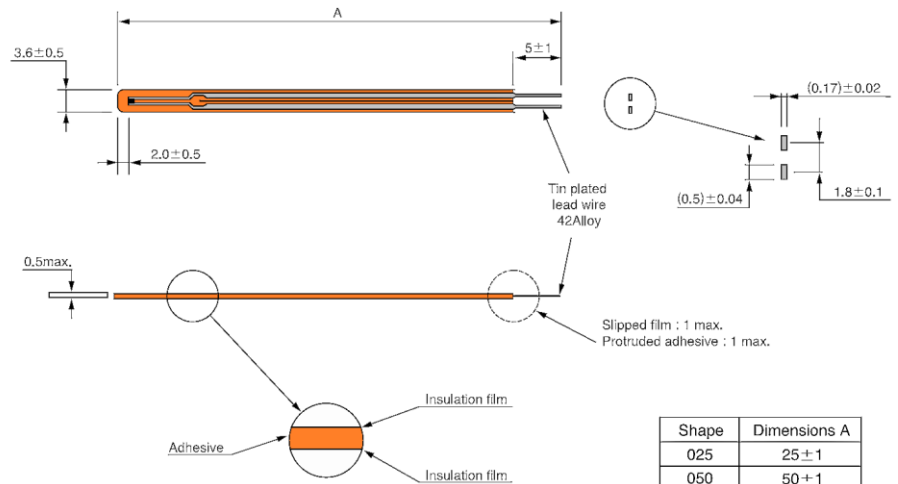


### Resistance -Temperature Table

Temperature (°C)	Type	
	103JT	104JT
-50	367.7	9584
-40	204.7	4572
-30	118.5	2282
-20	71.02	1191
-10	43.67	647.2
0	27.70	365.0
10	18.07	212.5
20	12.11	127.7
30	8.301	78.88
40	5.811	50.03
50	4.417	32.51
60	3.011	21.61
70	2.224	14.66
80	1.668	10.13
90	1.267	7.135
100	0.9753	5.111
110	0.7597	3.720
120	0.5981	2.746
125	0.5331	2.371

Unit KΩ

### Dimensions



Shape	Dimensions A
025	25±1
050	50±1
075	75±1
100	100±1

Unit (mm)

Specifications			Dissipation factor (mW/°C) Approx.	Thermal time constant (s) Approx.	Rated Maximum power dissipation (at 25°C) (mW)	Operating temp. range (°C)
Part No.	R25 (Ω)	B value				
103JT-__	10k±1%	3435K±1%	0.7	5	3.5	-50 to 125
104JT-__	100k±1%	4390K±1%				

1) Rated zero-power resistance value at 25°C. Resistance tolerance of ±2% and ±3% also available.

2) B Value determined by rated zero-power resistance at 25°C and 85°C.

3) Time necessary to reach 63.2% of temperature difference. Measured in still air.

Special lengths and terminations for high volume applications

For further information please contact us at [sales@atcsemitec.co.uk](mailto:sales@atcsemitec.co.uk)