

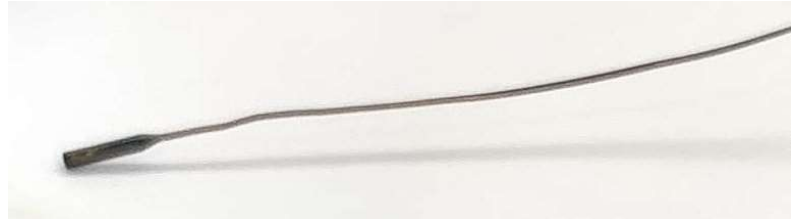
Semitec F μ – Miniature Temperature Sensors

The F-micro (F μ) thermistor sensor has been developed using SEMITEC's proprietary thin film thermistor technology. It is the only sensor in the world using this unique technology. It is primarily designed for catheter applications due to its miniature size high reliability, accuracy and very fast response times.

Applications

- Medical catheters
- Handheld medical devices
- Body temperature monitoring
- Medical guide wires
- Laboratory test equipment

Anywhere an extremely small sensor needs incorporating with other clinical instruments.



Features

- Thin-film technology – 0.5mm diameter x 2.3mm long
- Fast response time (<52ms)
- Highly accurate, $\pm 0.14\text{K}$ at 37°C
- Operating temperature range: $-10/+70^\circ\text{C}$
- Laser trimmed for accuracy
- Glass passivated element for high stability
- Latest version now available with 0.3mm diameter.



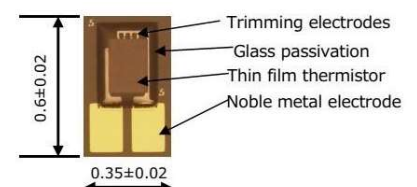
Dimensions



2 Stock sizes available

- Probe size - 0.5mm (D) x 2.3mm (L) $T_c \leq 52\text{ms}$
- Probe size - 0.3mm (D) x 1.8mm (L) $T_c \leq 20\text{ms}$

NTC Element



Product number	R37	R37 tolerance	B value	Dissipation factor (mW/°C)	Thermal time constant (ms)	Rated power at 25°C (mW)	Operating temperature range (°C)
223F μ 5183	14.015 k Ω	$\pm 0.5\%$	3454 K $\pm 1\%$	approx. 0.35	approx. 52	1.75	-10 to 70
223F μ 3122	14.015 k Ω	$\pm 3\%$	3454 K $\pm 1\%$	approx. 0.22	approx. 20	1.1	-10 to 70

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