

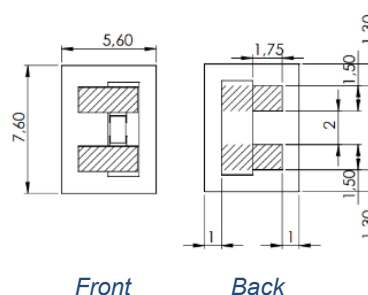
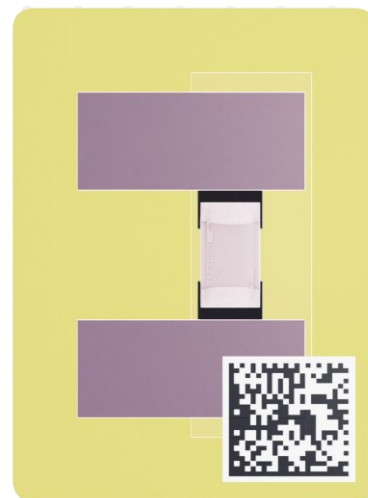
Datasheet (preliminary)

SMD foil temperature sensor Tp02

The SMD foil temperature sensor Tp02 is designed for determination of the temperature using a 4-wire-measurement setup.

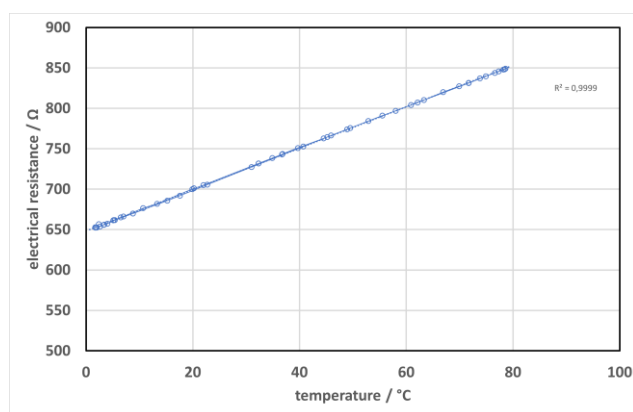
The readings are taken by applying a constant current of less than 1 mA and measuring the voltage, which changes due to the temperature dependent change of the electrical resistance.

A 2-wire-measurement is also possible but might lead to less accurate results due to resistance of the connection leads (not part of the SMD foil temperature sensor).

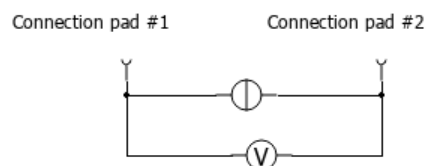


Technical Data	
Dimensions	L x W in mm
Whole sensor foil	7.6 x 5.6
Connection pad (per pad)	1.5 x 1.75
Distance between pads	2.0
Change in resistance	t.b.d.
Set-up time (time till stable output)	t.b.d.
Response time (t_{90})	t.b.d.
Lifetime (in use)	t.b.d.

All mechanical dimensions are valid at 25 °C ambient temperature, if not differently indicated. All data except the mechanical dimensions only have information purposes and are not to be understood as assured characteristics. Technical changes without previous announcement as well as mistakes reserved. Load with extreme values during a longer period can affect the reliability. Typing errors and mistakes reserved. Product specifications are subject to change without notice.



Example output: electrical resistance dependency of the temperature and linear approximation



Schematic example for a measuring circuit using a 4-wire-setup

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Version history:

Version	Release date	Changes
0.1	29.06.2023	First release
0.2	11.07.2023	Layout adjustments
0.3	20.03.2025	Layout adjustment due to company rename