PRINTED ELECTRONICS

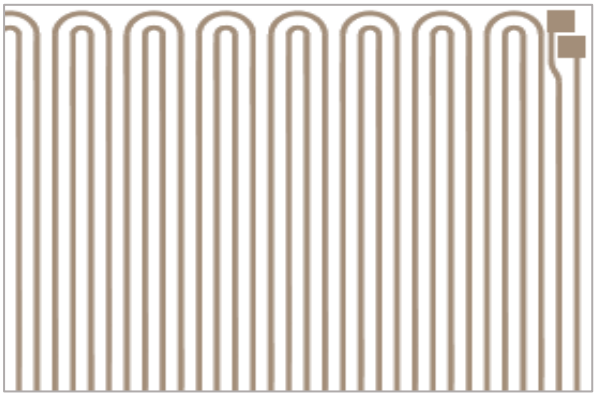
RESISTIVE AND CAPACITIVE SENSORS

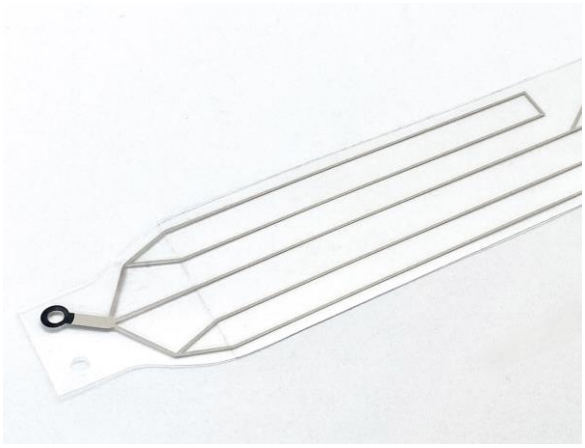
Printed Electronics is an innovative technology that enables the production of circuits through printing processes. This technology offers numerous advantages, including the ability to create flexible, lightweight, and low-cost sensors.
Alper s.r.l., a company specialized in this field, adopts Printed Electronics to produce a variety of resistive and capacitive sensors. Resistive sensors measure changes in electrical resistance, often used to detect pressure or force. Capacitive sensors, on the other hand, measure variations in electrical capacitance and are commonly used in applications such as presence detection or liquid detection as a safety device.

The production of these sensors through screen printing techniques allows Alper s.r.l. to create devices with complex geometries on flexible substrates, expanding the potential applications in various sectors, from consumer electronics to automotive and the Internet of Things (IoT).

CHARACTERISTICS

- Maximum dimensions: 1000x600mm (customized measures available on request)
- Application of adhesive surfaces using a wide range of specific double-sided adhesives for each use
- Wiring on customer specification
- Customer specific design
- Substrate temperature limits:
  - Min: -40°C
  - Max: 90°C (continuously)
  - Max: 100°C (for short periods)





❖ Note: The component is provided as an unfinished part. Conformity and marking of the final product shall remain the responsibility of the manufacturer of the complete unit

RoHS COMPLIANT

TÜV AUSTRIA ITALIA

Certified organization TUV AUSTRIA ITALIA S.P.A.
- ISO 9001:2015 with certificate n°Q-2523-17
- ISO 45001:2018 with certificate n°S-2523-19
- ISO 14001:2015 with certificate n°A-2523-24

ALPER

INNOVATION IS OUR RESISTANCE

ALPER S.R.L.
Via San Giovanni Bosco, 50 _ Italia _ 36022 Cassola (VI) _ Italy
Tel. +39 0424383895 _ info@alper.it _ **www.alper.it**