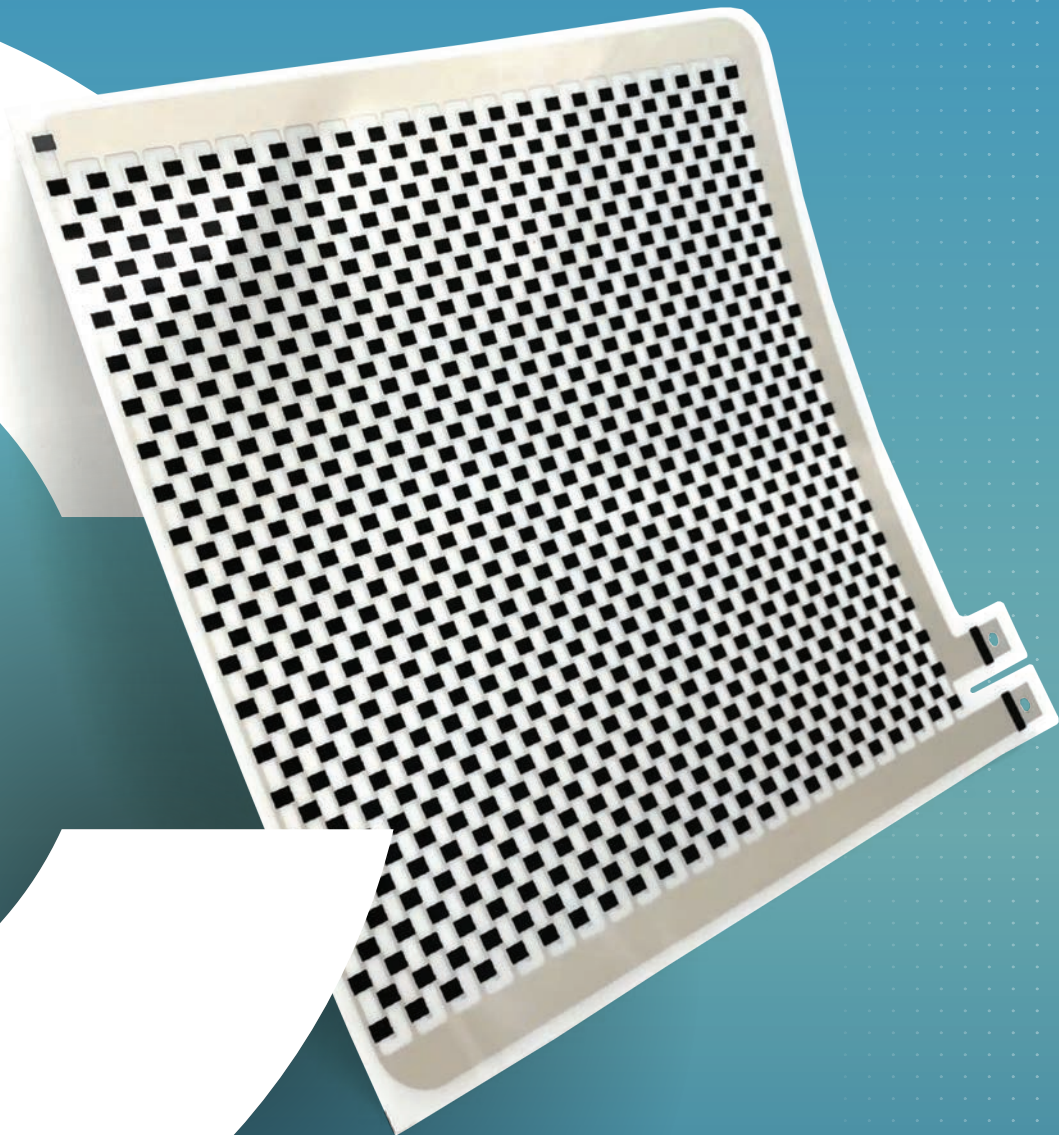


Printed PTC heaters



Printed PTC heaters

Features & specifications



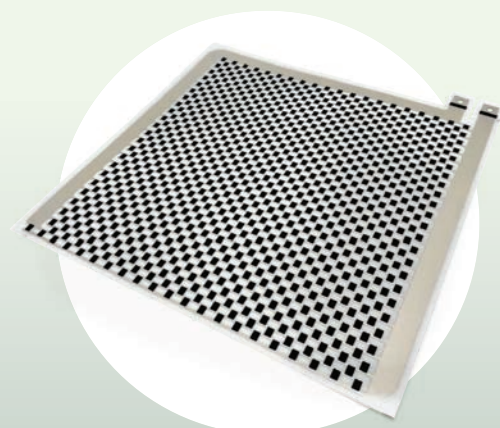
Cipem has developed printed heaters using Positive Temperature Coefficient (PTC) ink. The heaters are lightweight, thin and produce heat rapidly in a uniform fashion while remaining inherently safe. They are designed to generate heat up to a specified temperature, which is determined during the development of the intended application and limited to predefined temperature ranges.

Applications include a variety of possibilities, where uniform heating and a simple low-cost solution is required. Installation is easy, and the heating elements can be applied to a wide range of surfaces

Application

- Heated seats & beds
(medical & aero)
- Heated floors & walls
- Battery heaters
- Anti-condensation units
- Food warming
- Blood & IV bag heating
- Medical accessory heating
- Wing heating & de-icing

And more...



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IHM, a proud member of the **ICAPE Group** located in France, represents a renowned French printed electronics manufacturer committed to excellence.

At **IHM**, we specialize in custom membrane switch keypads for prototypes and small series, offering tailored solutions that surpass expectations. Our commitment to quality is evident through our certifications, including ISO 14001 and ISO 9001:2015, ensuring that every product meets stringent standards.

Electrical Specifications

Set Temperature	55°C-60°C (at 25°C ambient temperature)
Power Density	Up to 3000W/m ²
Electrical Interface	- Wire leads 2.54 mm pitch connector (with or without latch) - ZIF termination - Other configurations available upon request
Input Voltage	5V to 250V (AC or DC)

Mechanical Specifications

Thickness	0.3mm typical
Flexibility (min. bend radius)	1 cm
Weight	0.45kg/m ² (at thickness = 0.3mm)
Size	Up to 420 × 280 mm

Environmental & Certifications

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 125°C
Humidity	85% RH at 85°C
Circuit Design Rule	AFNOR SPEC 2212 norm



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Printed Electronics Manufacturer

For more information, get in touch with one of our experts at **IHM** or **CIPEM**.
We're here to support and nurture your project.

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Let's build **together!**

Whether you need a standard component or a fully customized design, **CIPEM** provides the flexibility, expertise, and service to bring your projects to life.

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