

ZPI Foil — Data sheet

- Pointwise self-regulation
- Pointwise temperature limit
- Flexible
- Functionality independent of form
- Rapid warm-up
- High voltage



Pointwise self-regulation

Each point on the ZPI foil surface automatically regulates its heating power to accommodate for varying thermal loads and ambient temperatures. Efficient cooling and/or low ambient temperature gives high power and vice versa.

Pointwise temperature limiting

Each point on the ZPI foil surface has a built-in temperature limiter, inherent to the material itself, which ensures that the ZPI foil will never overheat.

Functionality independent of form

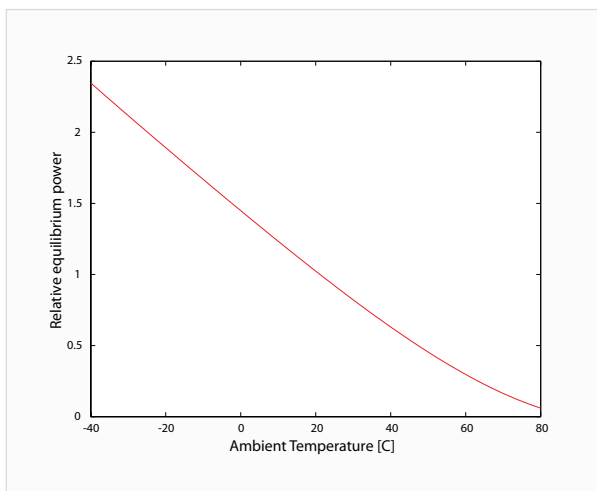
The surface temperature and power density are independent of area, allowing for a simple and cost effective product design process.

Rapid warm-up

High initial heating power gives a rapid warm-up.

High voltage

High voltage applications .



Technical Specifications

Voltage: 48/230 V AC/DC depending on configuration
Connection: Prepared for soldering
Power tolerance: $\pm 15\%$

Encapsulation: PET/PE
Bulk thickness: 0.3 mm

Maximum applied pressure: 2 kg/cm²

Operational, ambient temperature: -40 to +80C
Storage temperature: -60 to +60C

RoHS compliant

RoHS compliant

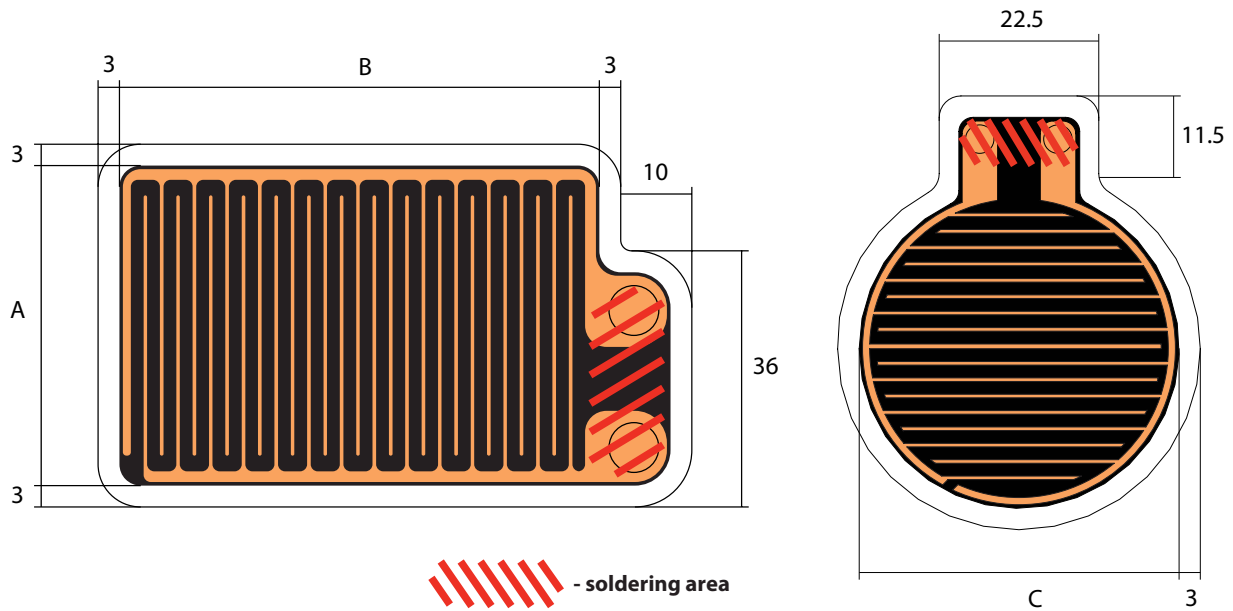
Specifications are subject to change without notice. No liability or warranty implied by this information. Environmental compliance based on producer documentation.

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2010-08-19

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Article no.	A [mm]	B [mm]	C [mm]	d_{tot} [mm]	V_{max} [V]	T_{+22} [C]	P_{-20} [W]	P_{+22} [W]	I_i [A]
ZPI-30-1001	45	67.5		0.3	48	50	3	2	0.5
ZPI-30-1002	67.5	85		0.3	48	50	6	3	1
ZPI-30-1003			45	0.3	48	50	2	1	0.3
ZPI-30-1004	45	67.5		0.3	230	55	3	2	0.2
ZPI-30-1005	67.5	85		0.3	230	55	6	3	0.4
ZPI-30-1006			45	0.3	230	55	2	1	0.1

d_{tot} Bulk thickness of ZPI foil and encapsulation.

V_{max} Maximum voltage (RMS).

T_{+22} Equilibrium temperature at V_{max} , minimal cooling and an ambient temperature of +22°C. Tolerance: ±15%.

P_{-20} Equilibrium power at V_{max} , minimal cooling and an ambient temperature of -20°C. Tolerance: ±15%.

P_{+22} Equilibrium power at V_{max} , minimal cooling and an ambient temperature of +22°C. Tolerance: ±15%.

I_i Average inrush current during 0.4s, at V_{max} , minimal cooling and an ambient temperature of +22°C. Tolerance ±20%

The ZPI foil can be manufactured to meet other technical specifications

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