

# 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 ZPZ 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 ZPZ foil surface has a built-in temperature limiter, inherent to the material itself, which ensures that the ZPZ foil will never overheat.

## Functionality independent of form

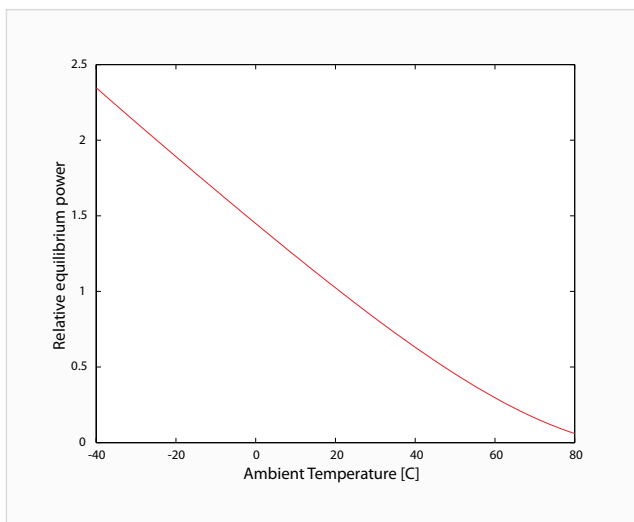
The surface temperature and power density are independent of area, allowing for a simple and cost effective product design process.

## 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/cm<sup>2</sup>

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

RoHS compliant

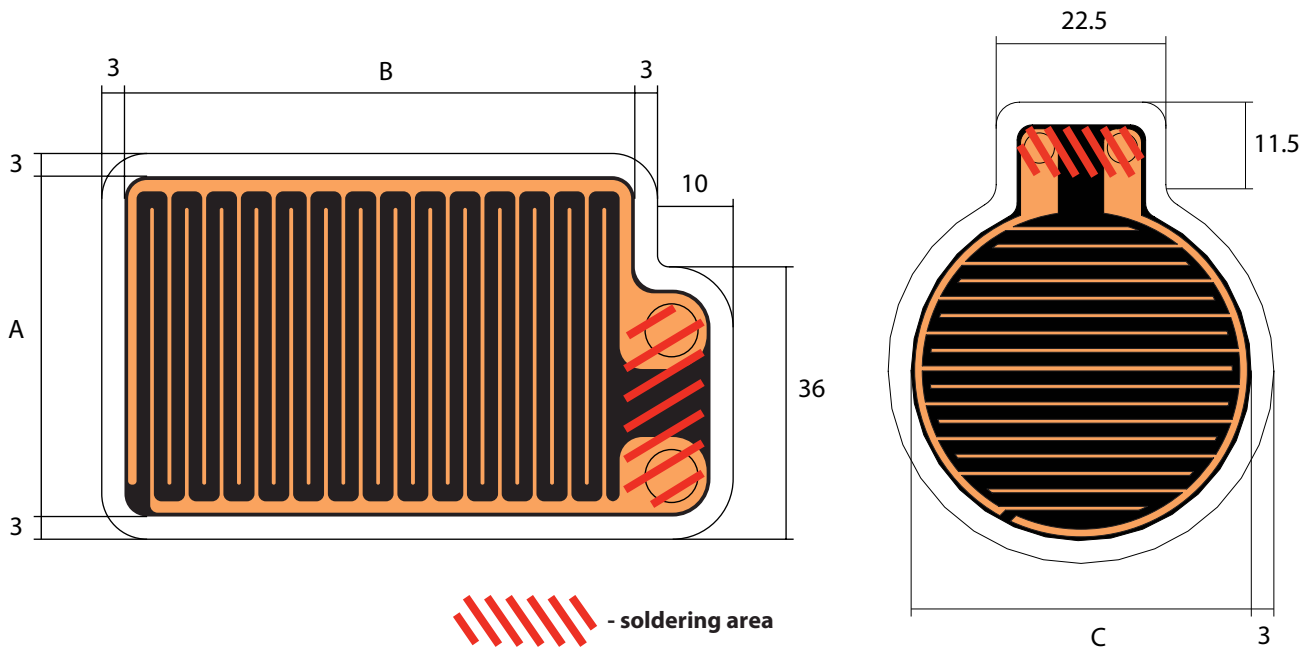
RoHS compliant

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intelligent heating

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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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