

ZPZ Foil — Data sheet

- Pointwise self-regulation
- Pointwise temperature limit
- 100% surface coverage
- Functionality independent of form
- Rapid warm-up



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.

100% surface coverage

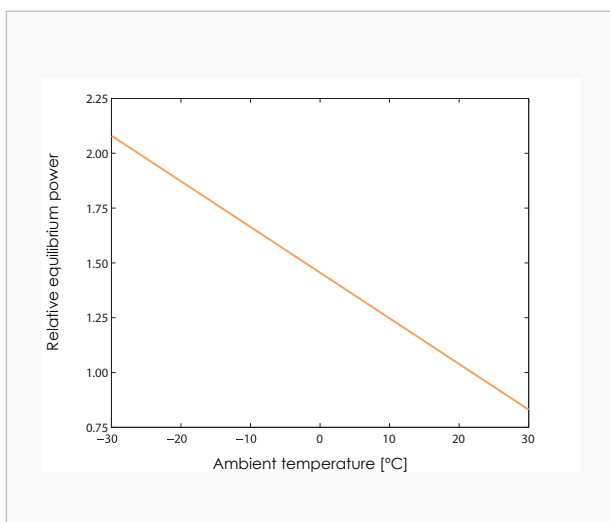
Heat is generated on the entire surface and the power density can therefore be kept at a minimum level.

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.



Technical Specifications

Voltage: up to 12/48 V AC/DC depending on configuration
Connection: Prepared for soldering
Power tolerance: $\pm 15\%$

Encapsulation: PET/PE
Bulk thickness: 0.30 mm (12V), 0.35mm (48V)

Maximum applied pressure: 2 kg/cm²

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

RoHS compliant

Designed for flat surfaces. Do not bend or fold.

RoHS compliant

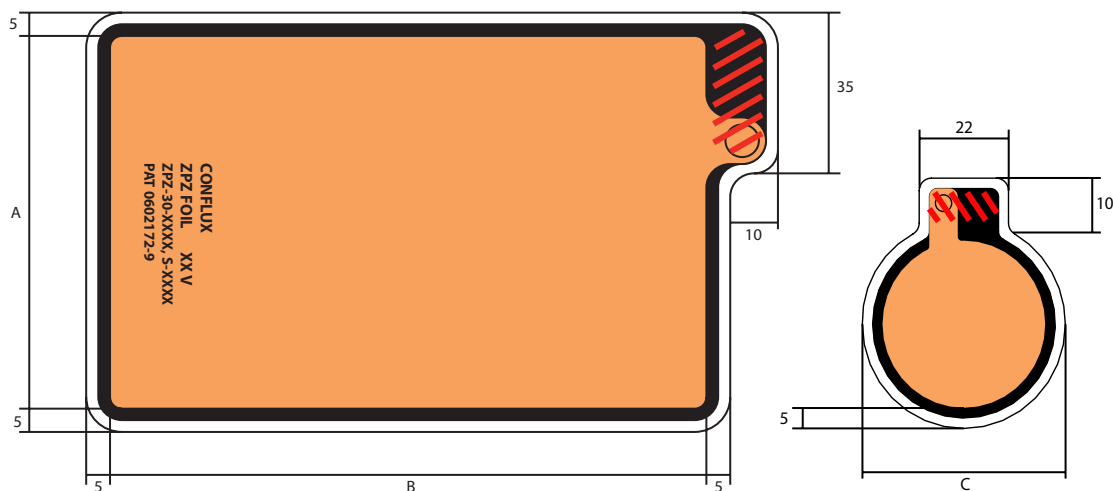
Specifications are subject to change without notice. No liability or warranty implied by this information. Environmental compliance based on producer documentation.

CONflux
intelligent heating

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 - soldering area



Article no.	A [mm]	B [mm]	C [mm]	d_{tot} [mm]	V_{max} [V]	P_{-20} [W]	P_{+22} [W]	I_i [A]
ZPZ-30-1013	40	62.5		0.30	12	5	2	2
ZPZ-30-1001	62.5	80		0.30	12	7	4	3
ZPZ-30-1002	80	125		0.30	12	13	7	7
ZPZ-30-1003	140	140		0.30	12	24	11	12
ZPZ-30-1004	140	280		0.30	12	44	20	17
ZPZ-30-1018			50	0.30	12	2.7	1	1.5
ZPZ-30-1017	40	62.5		0.35	48	5	2	3
ZPZ-30-1009	62.5	80		0.35	48	8	4	5
ZPZ-30-1010	80	125		0.35	48	12	6	10
ZPZ-30-1011	140	140		0.35	48	24	12	17
ZPZ-30-1012	140	280		0.35	48	49	20	33
ZPZ-30-1019			50	0.35	48	3	1.5	2

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

V_{max} Maximum voltage.

P_{-20} Equilibrium power at V_{max} (DC), minimal cooling and an ambient temperature of -20°C . Tolerance: $\pm 15\%$.

P_{+22} Equilibrium power at V_{max} (DC), minimal cooling and an ambient temperature of $+22^{\circ}\text{C}$. Tolerance: $\pm 15\%$.

I_i Average inrush current during 0.4s, at V_{max} (DC), minimal cooling and an ambient temperature of $+22^{\circ}\text{C}$. Tolerance $\pm 20\%$

The ZPZ foil can be manufactured to meet other technical specifications

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