

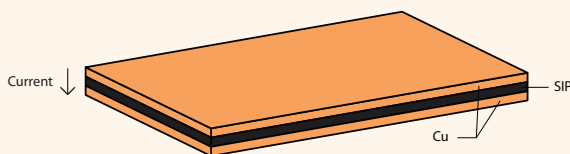
# Polymer PTC discs - Data sheet



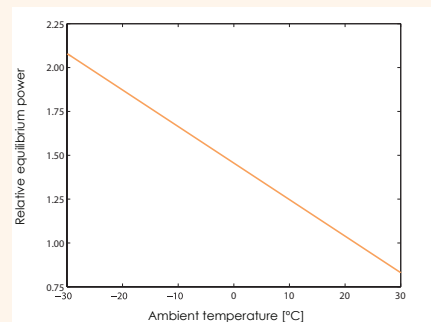
- Low cost polymer PTC discs for heating
- Self-regulating and temperature limiting
- Energy optimizing
- Available in a broad range of temperatures
- Ultra thin
- AC or DC
- High power density
- Rapid warm-up
- Suitable for clamp contacting
- Custom configurations available

Conflux develops, manufactures and markets polymeric materials for intelligent heating applications. Using new, unique and patented technologies, Conflux have designed materials which deliver efficient heating when its needed, where its needed. We combine innovative conductive polymer technology with a revolutionary design to provide our customers with pioneering technological functionality.

Conflux PTC polymer discs are constructed from Conflux ZPZ foil. The ZPZ foil is a patented, thin, self-regulating heating element based on the intelligent SIP compound and ZPZ design . The ZPZ foil consists of three-layers; two sheets of copper separated by a conductive polymeric compound (SIP).



The ZPZ foil



A typical curve of power vs ambient temperature for a ZPZ foil.

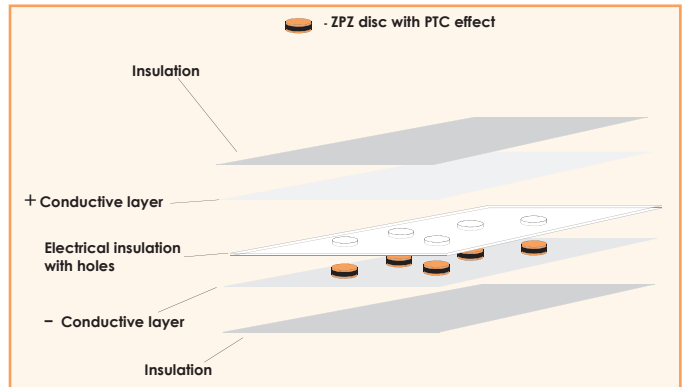
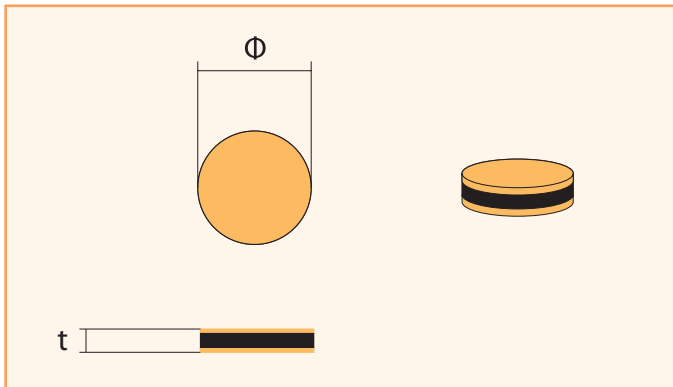
RoHS compliant

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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The discs are not suited for soldering, preferable contacting is conductive glue or clamping. When assembling, punch holes of the same size as the discs in an electrically isolating sheet and clamp the discs and the isolation between two conductive layers.

Data at an application configuration; five PTC discs clamped on a 1 dm<sup>2</sup> and 2 mm thick aluminium plate.

Article No	$V_{max}$ [V]	Dimensions [mm]		$T_{eq}$ [C]	$P_{eq}$ [W]	$P_i$ [W]
		$\Phi$	t			
HF-20-1001	12	16	0.2	30	0.2	0.3
HF-20-1002	12	16	0.2	40	0.8	1
HF-20-1003	24	16	0.2	35	0.5	1
HF-20-1004	24	16	0.2	55	1.5	5
HF-20-1005	48	16	0.5	40	1	2
HF-20-1006	48	16	0.5	80	3.5	20

$V_{max}$  Maximum voltage, AC/DC

$P_i$  Initial power per disc at  $V_{max}$  (DC) at an ambient temperature of +22°C. Tolerance: ± 20%

$P_{eq}$  Equilibrium power per disc at  $V_{max}$  (DC) at an ambient temperature of +22°C. Tolerance: 20%

$T_{eq}$  Equilibrium temperature on aluminium plate at an ambient temperature of +22°C. Tolerance: ±20%

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