POLYIMIDE HEATING ELEMENT

Construction

A Polyimide heating element consists of an etched resistive element laminated between two layers of polyimide. The heating element is thin, lightweight and flexible with a high dielectric strength.

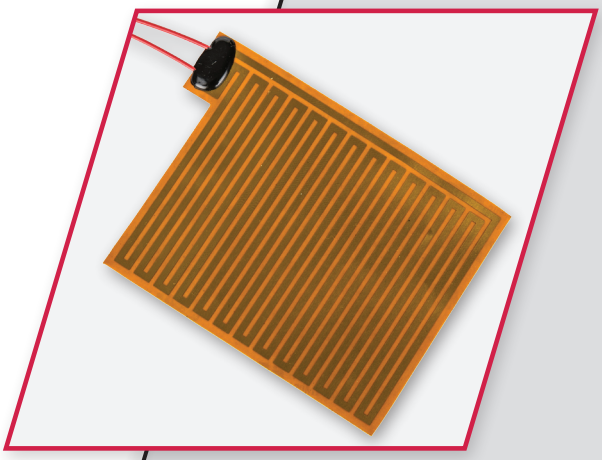
Another benefit of the Polyimide heating element is the high resistance to many chemicals, oils, acids and bases. Electronic components can also be directly implemented onto the heating circuit.

Technical specifications

	Polyimide heating element
voltage range	up to 1000V AC/DC 1- or 3-phase
max. watt density (controlled)	7,5W/cm²
watt tolerance	±10%
min. dielectric strength	60kV
max. size	480x1000mm
min. size	10x10mm
min. thickness	0,2mm
max. continuous operating temp.	180°C
min. ambient temperature	-50°C
connection options	rivets, blade terminals, thermal fuses, cables, sensors, thermostats, safety temperature limiters
sealing (connection point)	silicone, polymer
RoHS compliant	yes
protection class	IP X4

Features

- high watt density and dielectric strength
- form-specific customisation
- high resistance to chemicals, oils, acids and bases
- homogeneous temperature distribution
- customer-specific design & configuration
- high tensile strength
- low outgassing



Applications

- chemically challenging environment
- high temperature applications
- medical applications
- military & aerospace equipment

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