

# HOLROYD

## BESPOKE SURFACE HEATING ELEMENTS

### APPLICATIONS:

Holroyd supply Kapton (Polyimide) heaters for many different applications such as; industrial catering, battery warming, telecommunications, laboratory equipment and anti-condensation. The uses for polyimide heaters are extensive as they are our only heater that can suit any application requiring surface heating from -40°C to 200°C. Their suitability for arduous conditions has been proven in applications from polar expeditions to space exploration. Using expertly and individually designed etched foil tracks, our Kapton heaters can be manufactured to a range of specifications, shapes and sizes to suit the customers' requirements.

### MAIN POINTS:

- Minimal Thermal Mass
- High Power Densities
- Fast and Efficient Thermal Transfer
- Low Outgassing
- Precise Even Heating
- Low Profile
- Wide Temperature Range -40°C to 200°C
- Superb Electrical Insulating Properties
- Extremely Flexible



QUALITY



RELIABILITY



CREATIVITY



SERVICE



COMMUNITY

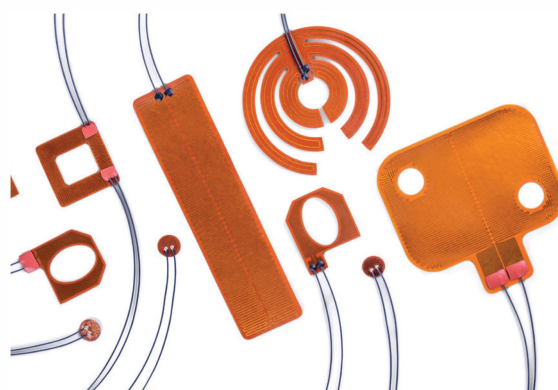
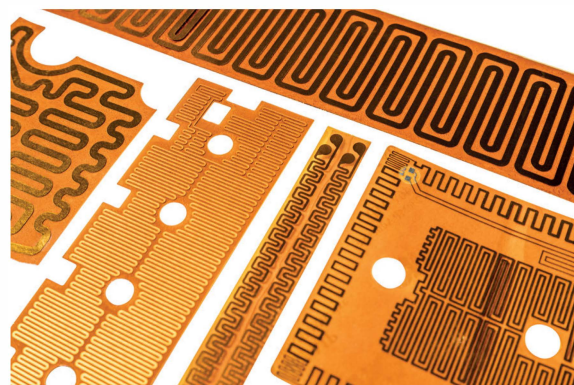
**+44 (0)1799 523177**

**SALES@HOLROYDCOMPONENTS.COM**

**HOLROYD COMPONENTS LTD**  
SHIRE HILL INDUSTRIAL ESTATE  
SAFFRON WALDEN  
ESSEX CB11 3AQ



**WWW.HOLROYDCOMPONENTS.COM**





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## CONSTRUCTION:

Kapton (Polyimide) is a semi-transparent, organic polymer film, ideally suited for the manufacture of etch foil heater mats. With its low thermal mass, superb electrical insulating properties and excellent resistance to most chemicals, it allows high power densities with fast and efficient thermal transfer. Being thin and lightweight with a wide temperature range polyimide heaters have a distinct advantage over other forms of heating elements.

## CHARACTERISTICS:

Holroyd's low profile Kapton heaters are renowned for their very good resistance to weather & ageing, fungus & bacteria and ozone. In addition to this, they also have an adequate resistance to radiation, and most chemicals, acids and solvents, making them an ideal solution to a wide variety of applications.

## HEALTH & SAFETY:

Kapton heaters are intended for use in industrial electric heating apparatus. They correspond to the BS EN 60335-1:2012. The heater has to be operated in accordance with these standards and regulations and should be installed on an electrical system protected by a residual current circuit breaker.

### TECHNICAL DATA

MAXIMUM DIMENSIONS	Width - 550mm Length - 285mm
THICKNESSES	0.2mm
TEMPERATURE RANGES	-40°C - 200°C (Non Adhesive) -30°C - 180°C (Self Adhesive)
POWER RATING	Variable (Dependant on application)
THERMAL CONDUCTIVITY	0.12 (Watt/Metre/K)

	KAPTON	SILICONE WIRE WOUND	SILICONE ETCHED FOIL
TEMPERATURE RANGE	-40°C to 200°C	-60°C to 250°C	-60°C to 200°C
THICKNESS RANGE	0.2mm to 0.3mm	1.1mm to 3mm	0.8mm to 1.5mm
MAXIMUM POSSIBLE SIZE	285mmx550mm	940mm x 3000mm	595mm x 2500mm
UL & VDE APPROVAL AVAILABLE		✓	✓
SUITABLE FOR HIGH QUANTITY	✓		✓
LOW SMOKE LOW TOXICITY AVAILABLE		✓	✓