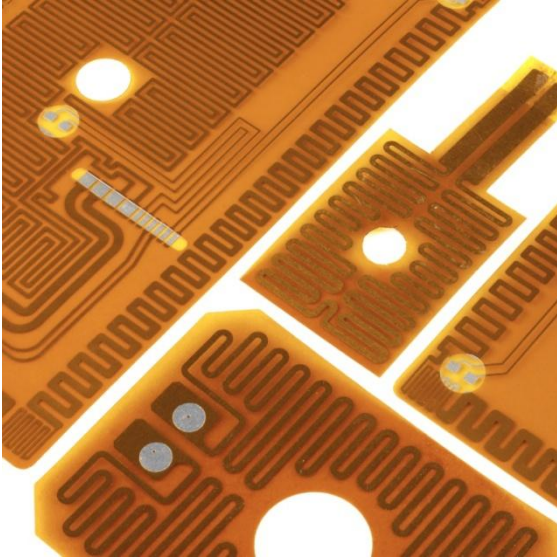


Kapton™ Insulated Heaters

Technical Datasheet



Description

Polyimide (Kapton™) is a semitransparent, organic polymer film, ideally suited for the manufacture of etch foil heater mats.

Being thin and lightweight, polyimide heaters offer the ideal solution where fast response, and a low profile is required.

The mechanical properties of polyimide provide excellent tensile strength, tear resistance and dimensional stability

Technical Specification

- Operating temp. -60°C to + 200°C
- Nominal thickness 0.2mm
- Maximum width 300mm
- Maximum length 550mm

Features and Benefits

- Thin and Lightweight
- Minimal Thermal Mass
- Superb Electrical Insulating Properties
- Excellent Chemical Resistance
- High Power Densities
- Fast Efficient Thermal Transfer
- Weather Resistant
- Ozone Resistant
- Fungus and Bacteria Resistant
- Good Resistance to Radiation

Applications

- Military/aerospace, where low out gassing properties are required
- Medical, where thorough cleaning or sterilization is needed
- Laboratory research
- Photographic equipment
- Optical equipment
- LCD displays
- Computer equipment

| <u>Size (mm)</u> | <u>Resistance (Ohms)</u> | <u>Typical Power (at Voltage)</u> | <u>Mounting</u> |
|------------------|--------------------------|-----------------------------------|-----------------|
| 25 x 50 | 115.2 | 1.25 (12) | Self Adhesive |
| 25 x 75 | 72 | 2 (12) | Self Adhesive |
| 25 x 100 | 36 | 4 (12) | Self Adhesive |
| 50 x 50 | 57.6 | 2.5 (12) | Self Adhesive |
| 50 x 75 | 38.4 | 3.75 (12) | Self Adhesive |
| 50 x 100 | 28.8 | 5 (12) | Self Adhesive |
| 75 x 100 | 19.2 | 7.5 (12) | Self Adhesive |
| 25 | 144 | 1 (12) | Self Adhesive |
| 50 | 72 | 2 (12) | Self Adhesive |
| 75 | 36 | 4 (12) | Self Adhesive |

Thermal Control

An extensive range of thermal control devices can be incorporated onto the heaters, these include thermocouples, platinum sensors and limit switches.

Pockets and housings can also be applied enabling the client to install their own control devices such as PT100's and capillary thermostats.