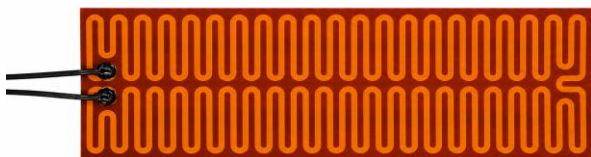


# Stock Kapton Heater Data Sheet

## Description / Applications

Holroyd supply Kapton (Polyimide) heaters for a wide range of applications including industrial catering, battery warming, telecommunications, laboratory equipment, anti-condensation systems and vacuum applications. Kapton heaters offer a versatile surface heating solution for applications requiring low mass, excellent thermal transfer and operating temperatures from -40°C to 200°C. Their suitability for arduous conditions has been proven in applications ranging from polar expeditions to space exploration.



## Construction

Kapton (Polyimide) is a semi-transparent polymer film ideal for the manufacture of etched foil heater mats. With its low thermal mass, excellent electrical insulating properties and outstanding thermal stability, it enables high power densities with fast and efficient thermal transfer. Being thin and lightweight with a wide operating temperature range, Kapton heaters are particularly well suited to applications where space, weight and rapid thermal response are critical.

## Key Points

- Minimal Thermal Mass
- Fast and Efficient Thermal Transfer
- Low Outgassing
- Precise Even Heating
- Low Outgassing Adhesive Available (3M 966)
- Low Profile
- Wide Temperature Range: -40°C to 200°C
- Superb Electrical Insulating Properties
- Extremely Flexible

## Technical Data

<b>Material</b>	Polyimide (Kapton) Film
<b>Construction</b>	Encapsulated Resistive Element
<b>Thickness</b>	0.2mm (Non-Adhesive) 0.3mm (Self-Adhesive)
<b>Temperature Range</b>	-40°C – 200°C
<b>Outgassing Data*</b>	TML 1.54% CVCM 0.02% WVR 0.64%
<b>Voltage</b>	12V
<b>Power</b>	1.25W – 45W

\*tested to ASTM E595-15 (2021)

## Stock Items

### Kapton Rectangular Range · All parts 12V

Size	Power	W/cm <sup>2</sup>	Non-Adhesive	Self-Adhesive
25 x 50mm	1.25W	0.1	HOL001-4000	HOL001-4001
25 x 50mm	7.5W	0.6	HOL001-4002	HOL001-4003
25 x 75mm	2W	0.1	HOL001-4004	HOL001-4005
25 x 75mm	11W	0.6	HOL001-4006	HOL001-4007
25 x 100mm	4W	0.2	HOL001-4008	HOL001-4009
25 x 100mm	15W	0.6	HOL001-4010	HOL001-4011
50 x 50mm	2.5W	0.1	HOL001-4012	HOL001-4013

Size	Power	W/cm <sup>2</sup>	Non-Adhesive	Self-Adhesive
50 x 50mm	15W	0.6	HOL001-4014	HOL001-4015
50 x 75mm	3.75W	0.1	HOL001-4016	HOL001-4017
50 x 75mm	22.5W	0.6	HOL001-4018	HOL001-4019
50 x 100mm	5W	0.1	HOL001-4020	HOL001-4021
50 x 100mm	30W	0.6	HOL001-4022	HOL001-4023
75 x 100mm	7.5W	0.1	HOL001-4024	HOL001-4025
75 x 100mm	45W	0.6	HOL001-4026	HOL001-4027

### Kapton Circular Range · All parts 12V

Size (Ø diameter)	Power	W/cm <sup>2</sup>	Non-Adhesive Code	Self-Adhesive Code
Ø50mm	2W	0.1	HOL001-4028	HOL001-4029
Ø50mm	12W	0.6	HOL001-4030	HOL001-4031
Ø75mm	4W	0.1	HOL001-4032	HOL001-4033
Ø75mm	26.5W	0.6	HOL001-4034	HOL001-4035