HSH2001NIEO

Lamps for Photolithography



Description

PerkinElmer Optoelectronics is a leading manufacturer of mercury short arc lamps ranging in output power from 1000 to 8000 watts. These lamps are used in the production of printed circuit boards, liquid crystal displays and semiconductors. The HSH Series lamps are used worldwide in microlithography systems manufactured by ASML, Canon, GCA, Nikon, Karl Suss, Ultratech Stepper, and SVG. With extremely high stability, uniform output distribution and extended lamp lifetimes, the HSH Series has become the lamp choice of many of the world's leading semiconductor manufacturers.

PerkinElmer has been a leading manufacturer of high intensity arc lamps for more than 30 years and is a premier lamp supplier for solid state lasers, medical equipment, NASA space systems and microlithography. PerkinElmer has steadily advanced lamp performance from 1000 watts to 8000 watts. With the introduction of new materials and proprietary manufacturing processes, we have extended lamp lifetimes from several hundred

hours to more than two thousand hours. The HSH Series provides longer lifetimes, outstanding uniformity, and excellent spectral quality which results in increased throughput, reduced downtime and an overall reduction in the cost of ownership.

Applications

Microlithography



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Operational Specifications

Description Nominal Range 1750 watts

Power

Current 67 amps (DC) 60-76 amps (DC) Voltage 26 volts (DC) 23-29 volts (DC)

Current Ripple 3%

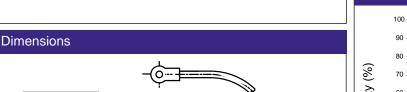
Temperature (at base) 220°C (max) Lifetime 2250 hours

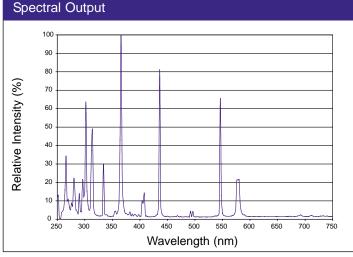
Physical Specifications

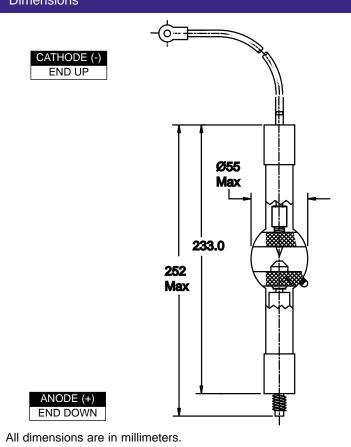
Description **Specification**

Arc Gap 4.5 mm (max)

Anode Base 27 mm Dia (M10-P1.5) Cathode Base 27 mm Dia and Cable







Typical Performance Graph 8 Relative Intensity 50 30 20 450 1800 2250 Hours of Operation

Notes

Lamp must be operated with cathode end up and anode end down. Inclination of lamp axis to vertical must not exceed 10°.

Part Number References

Used In Nikon NSR-2005 (i9, i10)

NSR-2205 i11

Replaces SUV-2001NIL

HBO2001W/NIL

PerkinElmer welcomes inquiries about special lamps. We would be pleased to discuss the requirements of your application and the feasibility of designing a lamp specifically suited to your needs.

For more information e-mail us at opto@perkinelmer.com or visit our web site at www.perkinelmer.com/opto.

All values are nominal; specifications subject to change without notice.

USA: PerkinElmer Optoelectronics 44370 Christy St. Fremont, CA 94538 Phone: (510) 979-6500 Fax: (510) 687-1140

PerkinElmer Optoelectronics GmbH Wenzel-Jaksch-Str. 31 65199 Wiesbaden

Phone: +49 611 492 0 Fax: +49 611 492 177

Germany

PerkinElmer Optoelectronics 47 Ayer Rajah Crescent #06-12 Singapore 139947

Phone: +65 775 2022 Fax: +65 775 1008

