

Technical Information

No. FO 4746

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Mercury Short Arc Lamp
for Microlithography

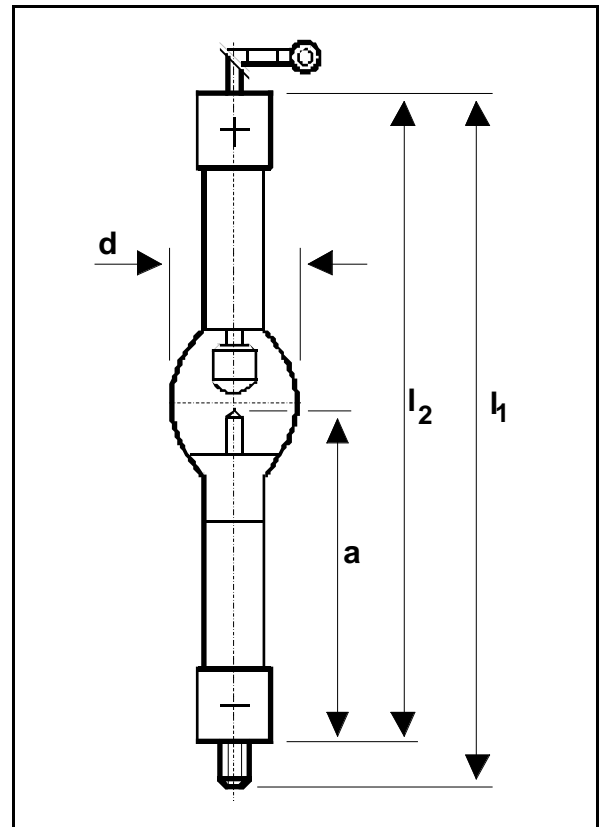
HBO[®] 2002 W/NIL

n Product description

The OSRAM HBO[®] 2002 W/NIL is a mercury short arc lamp designed for the manufacturing of integrated circuits (microchips). The lamp emits very high radiant intensity in the ultraviolet and visible wavelength range and is especially suited for Nikon equipment (NSR-2205 i11D / SHRINC3).

n Technical data

Order reference		HBO [®] 2002 W/NIL
Rated lamp wattage	W	1.750
Rated lamp voltage	V	26
Rated lamp current (=)	A	67
Ignition voltage (cold)	kV _s	max. 20
Radiant intensity (wave length range 365 ± 2,5nm)	mW/sr	5.100
Electrode gap e	mm	4,5
Lamp length (overall) l ₁	mm	max. 254
Lamp length l ₂	mm	232 / max. 234
Bulb diameter d	mm	52
LCL a	mm	107,75
Average service life	h	1.500
Base		<ul style="list-style-type: none">• Cathode: SFc 27-10x1,25/35• Anode: SFc 27-7/35 with cable connector (M8)



n Lamp operation

Maximum permissible base temperature	°C	200
Cooling		forced base cooling
Burning position		vertical, Anode (+) up

The HBO[®] 2002 W/NIL can either be operated on standard ballasts or on electronic power supplies (ECG).

n Safety Instruction

Because their high luminous efficacy, the UV radiation which they emit and the high pressure within the lamp, HBO[®] lamps may only be operated within enclosed, purpose-built housings. When a lamp breaks, mercury is released. Particular safety regulations should be paid attention (for details please request technical information sheet no. FO 4574).