

## Technical Information

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Substitutes: new

Status: valid

Mercury Short Arc Lamp  
for Microlithography

# HBO<sup>®</sup> 2002 W/MAL

### ■ Product description

The OSRAM HBO<sup>®</sup> 2002 W/MAL is a mercury short arc lamp designed for the manufacturing of integrated circuits (microchips) and small LCDs. The lamp emits very high radiant intensity in the ultraviolet and visible wavelength range and is especially suited for Canon equipment (MPA 500, 600FA and 1500). It has an improved performance and extended lifetime compare to HBO 2002 W/MA.

### ■ Technical data

Order reference		HBO <sup>®</sup> 2002 W/MAL
Rated lamp wattage	W	2,000, max. 2,400
Rated lamp voltage	V	40
Rated lamp current (=)	A	50
Ignition voltage (cold)	kV <sub>s</sub>	max. 20
Radiant intensity (wave length range 365 ± 2,5nm)	mW/sr	4,200
Electrode gap e	mm	3
Lamp length (overall) I <sub>1</sub>	mm	max. 292
Lamp length I <sub>2</sub>	mm	270 / max. 272
Bulb diameter d	mm	62
LCL a	mm	138.5
Guaranteed life	h	1,500*

Base

- Cathode: SFa 27-10/35 with cable connection (M8)
- Anode: SF 27/35 with cable connection (M8)

\*) initial input wattage < 1,700 Watts; details on request

### ■ Lamp operation

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

### ■ Safety Instruction

Because their high luminous efficacy, the UV radiation which they emit and the high pressure within the lamp, HBO<sup>®</sup> 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).

