

Technical Information

No. FO 5484

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Substitutes: Edition new

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Mercury Short Arc Lamp
for microlithography

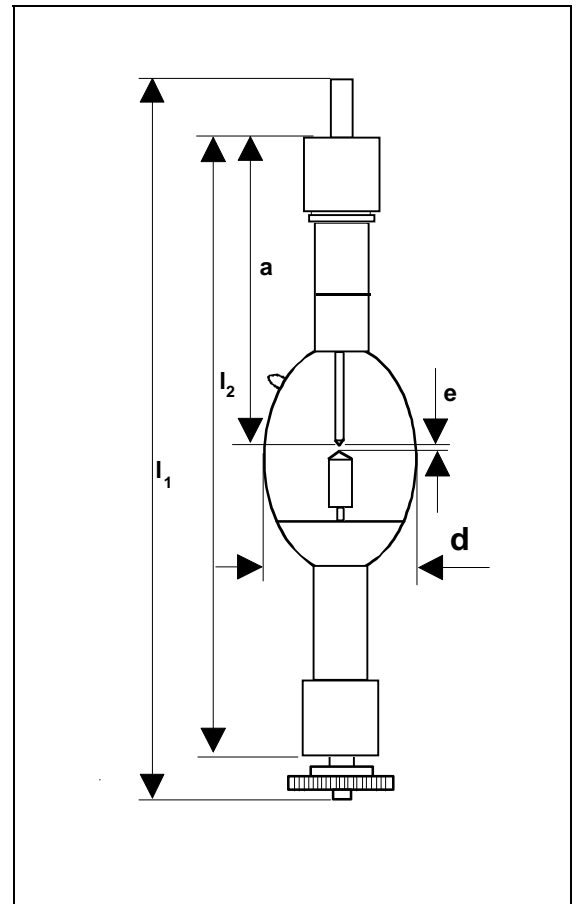
HBO[®] 250 W/D

■ Product description

The OSRAM HBO[®] 250 W/D belongs to the family of mercury short arc lamps, of which the discharge arc burns in an atmosphere of high pressure mercury vapour. The HBO[®] 250 W/D is a direct current, UV-emitting lamp type, used within Canon mask aligner PLA 501.

■ Technical Data

Order reference		HBO [®] 250 W/D
Rated lamp wattage	W	250
Lamp voltage	V	40
Operating current (=)	A	6.25
Max. current ripple	%	5
Lamp length overall l_1	mm	max. 152
Lamp length l_2	mm	125
Bulb diameter d	mm	20
LCL a	mm	62
Electrode gap e	mm	2
Guaranteed life	h	1,000
Bases		<ul style="list-style-type: none">• Cathode: SFc 13-5 P0.9• Anode: SFc 13-5 P0.9



■ Lamp operation

Maximum base temperature allowed	°C	230
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[®] lamps must be operated within enclosed, purpose-built housings. When a lamp breaks, mercury is released. Particular safety regulations must be paid attention (for details please request technical information sheet no. FO 4574).

